

CURRICULUM VITAE

JOHN PAUL GIESY, Jr., B.S., M.S., Ph.D., FRSC¹, FSETAC², DSAHC³

October 27, 2021

BORN: Youngstown, Ohio USA; August 9, 1948

CITIZENSHIP: Citizen of Canada
Citizen of USA
Hong Kong Work Visa (ID) 2003-2018

MARRIED: Wife: Susan Elaine Damerell; Married September 5, 1970
Child: Emily Jean; Born December 11, 1979

LANGUAGES: English (native), German (RWS), French (RWS),

HONORY ACADEMIC DISTINCTIONS:

- Member National Academy of Science, Canada; (Academy III), Division of Earth, Ocean and Atmospheric Sciences, Discipline of Earth Sciences
- Fellow of Royal Society of Canada,
- Einstein Professor, Chinese Academy of Science
- Fellow of Society of Environmental Toxicology and Chemistry
- University of Saskatchewan Science Ambassador to China
- Honorary Degree Doctor Honoris Causa in the field of Environmental Sciences, conferred by Masaryk University, Czech Republic

PRESENT POSITION: Distinguished Professor in Environmental Toxicology,
Former Canada Research Chair, 2006-2020
Dept. Veterinary Biomedical Sciences and Toxicology Centre,
University of Saskatchewan
U of S Ambassador to China

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Western College of Veterinary Medicine
University of Saskatchewan, Toxicology Centre, 52 Campus Drive
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¹ Fellow of the Royal Society of Canada, Division of Earth, Ocean and Atmospheric Sciences, Academy III, National Academy of Sciences

² Fellow, Society of Environmental Toxicology and Chemistry

³ *Doctor Scientiarum Ambitalium Honors Causa*, conferred by Masaryk University

EDUCATION:

- * B.S., Summa Cum Laude, Honors in Biology, Alma College, Alma Michigan, 1970
- * M.S., Michigan State University, East Lansing, Michigan, Fisheries & Wildlife (Limnology), 1971
- * Ph.D., Michigan State University, East Lansing, Michigan, Fisheries & Wildlife (Limnology), 1974
- * University of Michigan Biological Station, summer session, 1969

SECURITY CLEARANCES:

Q: 1974-1976 (US DOE);
L: 1976 -1981 (US DOE),
1993-1994 (US Navy, Midway Island)
Canada: 2010-2012, Department of Justice and Environment Canada

SCUBA CERTIFICATION: NASDS Open Water, 1978

CONCURRENT APPOINTMENTS:

- * Emeritus Distinguished Professor of Zoology, Michigan State University, 2007-Present
- * Distinguished Visiting Professor, School of Biological Sciences, The University of Hong Kong, 2010-2018
- * Concurrent Professor: Nanjing University, Nanjing, China; 2003-Present
- * Guest Professor, State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, China, 2008-Present
- * Honorary Professor, State Key Laboratory of Environmental Criteria and Risk Assessment, Chinese Research Academy of Environmental Sciences, Beijing, China, 2013-Present
- * Distinguished Professor of Science, Hong Kong Baptist University, Hong Kong, SAR, China, 2014-Present
- * Distinguished Visiting Professor of Environmental Sciences, and Graduate Faculty of Baylor University, Waco, TX, USA, 2015-Present

RESEARCH INTERESTS:

- * Ecology
- * Ecotoxicology
- * Aquatic Toxicology
- * Environmental analytical chemistry of organic compounds
- * Environmental Chemistry (Fates of trace substances in aquatic ecosystems)
- * Trace metal analysis and speciation, cycling and toxicity
- * Simulation models of environmental fates of trace substances
- * Microcosms and multi-species toxicity testing
- * Biochemical & molecular toxicology (Biomarkers)
- * Wildlife toxicology
- * Polycyclic aromatic hydrocarbons
- * Photo-induced toxicity in aquatic organisms
- * Avian toxicology and habitat requirements
- * Planar, halogenated hydrocarbons (PCBs, PCDD and PCDF)

- * Ecological risk assessment
- * Agricultural Chemicals
- * Endocrine modulating compounds
- * Perfluorinated compounds: analytical and environmental chemistry and toxicity
- * Sediment toxicity assessment

POSITIONS HELD:

Alma College

- * Instructor of Biology, 1972

City University of Hong Kong

- * Visiting Distinguished Professor, 2003-2015

Savannah River Ecology Laboratory

- * Assistant Research Ecologist: 1974-1980
- * Associate Research Ecologist: 1980-1981
- * Program Manager, Aquatic Ecology: 1979-1981

University of Georgia

- * Assistant Professor, Zoology: 1974- 1980
- * Associate Professor, Zoology: 1980-1981
- * Graduate Faculty: 1976-1981
- * Ecology Faculty: 1978-1981

University of South Carolina - Aiken Campus

- * Instructor of Biology: 1976

Emory University

- * Adjunct Assistant Professor of Biology: 1978-1981

University of Florida

- * Adjunct Assistant Professor of Environmental Engineering: 1978-1981

Michigan State University

- * Adjunct Assistant Professor of Fisheries and Wildlife: 1980
- * Associate Professor of Fisheries and Wildlife (35%): 1981-1985
- * Pesticide Research Center; 1981-1997
- * Coordinator of Environmental Effects Research, College of Natural Science (10%), Pesticide Research Center (45%): 1981-1987
- * Professor of Fisheries and Wildlife; 1985-1993
- * Distinguished Professor of Fisheries & Wildlife; 1993-1997
- * Distinguished Professor of Zoology, Professor of Veterinary Medicine: 1997-2006
- * Distinguished Professor of Integrative Biology Emeritus, 2006-Present
- * Center for Environmental Toxicology: 1981-2004
- * National Food Safety and Toxicology Center, 1997-2006
- * Center for Integrative Toxicology: 2004-2006
- * Ecology, Evolution and Behavior Program Faculty: 1986-2006

- * Center for Hazardous Waste Management: 1990-2006
- * Canadian Studies Center: 1983-2006
- * USDI Water Science Fellow Training Faculty; 1985-2006
- * Preceptor NIH Training Grant (Pathology/Veterinary Medicine); 1981-2006
- * National Institutes of environmental Health Safety Training Faculty: 1991-2006

University of Bayreuth, Bayreuth Germany

- * Visiting Professor, Chair of Ecological Chemistry and Geochemistry: 1987-1988

Office of Water, Soil and Air Hygiene Federal Republic of Germany, Berlin

- * Visiting Scientist: 1989

Italian Hydrobiological Institute, of the Italian National Research Council, Pallanza, Italy

- * Visiting Scientist: 1989-1990

Biological Research Station of Helgoland, List/Sylt, Germany

- * Visiting Scientist: 1993

National Center of Hygiene Medical Ecology and Nutrition, Sofia Bulgaria

- * Training program-Visiting Scientists, 2002-2003.

Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, SAR, China

- * Chair Professor at Large: 2003-2015

Nanjing University, Environmental Sciences Program, Nanjing, China

- * Concurrent Professor, 2003-Present

National Institute of Advanced Industrial Science and Technology (AIST) Institute for Environmental Management Technology (EMTECH), Japan

- * Visiting Professor: 2004-2007.

Xiamen University, College of Oceanography and Environmental Science and Marine Environmental Laboratory, Xiamen, China

- * Guest Professor: 2008-2021

King Saud University, Riadyh, Saudia Arabia

- * Distinguished Honorary Professor, 2010-2012

University of Hong Kong

- * Honorary Professor, 2010-2018

University of Saskatchewan

- * Distinguished Professor, Department of Veterinary Biomedical Sciences, 2020-Present
- * Canada Research Chair in Environmental Toxicology, 2006-2020
- * Professor, Department of Veterinary Biomedical Sciences, 2006-Present
- * Professor, Toxicology Program, 2006-Present
- * Member Global Institute for Water Security, 2012-Present

HONORS, AWARDS and DISTINCTIONS:

- * Varsity letter winner—Wrestling, Alma College
- * National Science Foundation Undergraduate Research Fellow: 1969
- * Alpha Society (Scholarship, Leadership, Athletics): 1970
- * Phi Sigma Pi (Scholastic Honorary): 1969
- * Omicron Delta Kappa (Men's Leadership Honorary): 1970
- * Beta Beta Beta Alma College Chapter (Biology Honorary),
President: 1969-1970
- * ***Frank G. Brooks, Regional Best Paper Award, Beta, Beta, Beta:*** 1970
- * ***Woodrow Wilson Fellow*** - Honorable Mention: 1970
- * ***National Science Foundation Fellow*** - Honorable Mention: 1970
- * ***Fulbright Fellow***, Environmental Toxicology Program University of Bayreuth, Federal Republic of Germany: 1987-1988
- * ***Chevron Distinguished Lecture*** Award- University. California-Davis: 1989
- * ***Sigma Xi Junior Investigator Research Award*** Michigan State University Chapter (for Continued Excellence in Scientific Research): 1989
- * Researcher of the Month Laboratory Animal Resources Department, Michigan State University (for excellence in research on animals): 1989
- * ***CIBA GEIGY Agricultural Recognition Award*** in Environmental Science: 1990
- * Pew Scholars Program - Presidential Nominee, Michigan State University: 1992
- * ***Willard F. Shephard Award*** for service to the field of pollution control. Michigan Water Pollution Control Association: 1992
- * Election to the International Platform Association: 1992
- * ***International Man of the Year in Environmental Toxicology*** - International Biographical Centre, Cambridge, England:

(1) 1992-1993

(2) 2000-2001

- * ***Distinguished Professor Award*** - Michigan State University: 1993
- * ***QUINTESSENCE: Excellence in Environmental Contamination & Toxicology***: 1994
For the publication: Hoke, R.A., P.D. Jones, A.E. McCubbin, M.J. Zabik and J.P. Giesy. 1994. Use of *in vitro* assays of sediment extracts to detect and quantify contaminants With: similar modes of action. *Chemosphere* 28:169-181.

"This publication was selected as an example of excellence in the field of Environmental Contamination & Toxicology for 1) its significance and impact on the scientific field as a whole; quality of design and overall scientific excellence."

- * ***Vollenweider Environmental Science Award***: 1994. Awarded annually by Environment Canada Government (Canadian Center For Inland Waters, Burlington) for "excellence in International Freshwater Research and Scientific Leadership"
- * ***SETAC Founders Award***: 1995. This is the most prestigious award presented by the Society of Environmental Toxicology and Chemistry (SETAC) to an Individual for outstanding contributions to the fields of Environmental Toxicology & Chemistry".
- * ***Alma College Distinguished Alumni Award***: 1996. This award is given an individual who has "distinguished themselves through service to society and Alma College".
- * ***Best student paper Award from the Society of Environmental Toxicology and Chemistry: 1997***

Richter, C.A., J.P. Giesy, V.L. Tieber and M.S. Denison. 1997. An *in vitro* Rainbow Trout Cell Bioassay for Aryl Hydrocarbon Receptor-Mediated Toxins. *Environ. Toxicol. Chem.* 16:543-550.

- * ***Best student paper Award from the Society of Environmental Toxicology and Chemistry: 1999***

Villeneuve, D.L., C.A. Richter, A.L. Blankenship and J.P. Giesy. 1999. Rainbow Trout Cell Bioassay Derived Relative Potencies for Halogenated Aromatic Hydrocarbons: Comparison and Sensitivity Analysis. *Environ. Toxicol. Chem.* 18:879-888.

- * ***Best student paper award from International Symposium on Halogenated Environmental Organic Pollutants and POPs, Organohalogen Compounds, 2001.***

Khim, J.-S., K.-T. Lee, D. L. Villeneuve, K. Kannan, J. P. Giesy and C.-H. Koh. 2001. Characterization of Dioxin-Like and Estrogenic Compounds in Environmental Samples from Onsan Bay and It's Inland Region, Korea. *Organohalogen Compounds.* 51:31-34.

- * ***ISI Highly Cited Author Recognition- 2002***: J.P. Giesy was identified by Current Contents as one of the world's most cited authors. Based on the frequency With: which his papers

are cited by other authors, Current Contents has identified Prof. Giesy as a person who is in the top 0.1% of active authors. In 2001 Prof. Giesy was recognized as an ISI Highly Cited Author (ISIHighlyCited.com).

- * **ISI Highly Cited Author Recognition-2002:** J.P. Giesy was the 7th most cited author out of approximately 20,000 people who published in the fields of Ecology and Environment over the period 1992-2002 (ISI Current Contents: ISIHighlyCited.com) <http://www.in-cites.com/scientists/env-eco.html>
- * **InCites Highly Cited Author Recognition-2003:** J.P. Giesy was the 6th most cited author in the Fields of Ecology and Environment over the period of 1993-2003: <http://www.in-cites.com/top/2003/fourth03-env.html>
- * **InCites Highly Cited Author Recognition-2003:** J.P. Giesy is the 3rd most cited author in the area of Polychlorinated Biphenyls in the environment: <http://www.esi-topics.com/pcb/interviews/JohnPGiesy.html>
- * **InCites Highly Cited Author Recognition-2004:** J.P. Giesy was the 6th most cited author in the Fields of Ecology and Environment over the period of 1994-2004. Based on 147 papers monitored for the period Prof. Giesy had a total of 3,060 citations With: an average citations per paper of 20.82: <http://www.in-cites.com/top/2004/fourth04-env.html>
- * **InCites Highly Cited Author Recognition-2005:** J.P. Giesy was the 4th most cited author in the Fields of Ecology and Environment over the period of 1995-2005. Based on 155 papers monitored for the period, Prof. Giesy had a total of 4,077 citations With: an average citations per paper of 26.3: <http://in-cites.com/top/2005/index.html#Environment%20/Ecology>
- * **InCites Highly Cited Author Recognition-2006:** J.P. Giesy was the 2nd most cited author in the Fields of Ecology and Environment over the period of 1996-2006. Based on 171 papers monitored for the period, Prof. Giesy had a total of 4,669 citations With: an average citations per paper of 27.3: <http://in-cites.com/top/2006/fifth06-env.html>
- * **InCites Highly Cited Author Recognition-2007:** J.P. Giesy was the 2nd most cited author in the Fields of Ecology and Environment over the period of 1997-2007. Based on 175 papers monitored for the period, Prof. Giesy had a total of 4,884 citations With: an average citations per paper of 27.9: <http://in-cites.com/top/2007/fourth07-env.html>
- * **Best Ecological Risk Assessment Paper published during 2001 in Human and Ecological Risk Assessment**

Solomon K. R, Giesy J.P., Kendall R .J, Best L. B., Coats J. R, Dixon K. R., Hooper M. J., Kenaga E.E., McMurry ST. 2001. Chlorpyrifos: Ecotoxicological Risk Assessment for Birds and Mammals in Corn Agro-ecosystems. *Human Ecol Risk Assess.* 7:497-632.

- * **The following paper was selected by the Journal Toxicological Sciences to be highlighted and a special review article written:**

Hu, W., P. D. Jones, B. L. Upham, J. E. Trosko, C. Lau and J. P. Giesy. 2002. Inhibition of Gap Junctional Intercellular Communication by Perfluorinated Compounds in Dolphin Kidney and Rat Liver Epithelial Cell Lines. *Tox. Sci.* 68:429-436.

The Citation for the Highlight article is: Ruch, R.J., 2002. Toxicological Highlight: Intercellular Communications, Homeostasis and Toxicology. *Toxic. Sci.* 68:265-266.

* ***Environmental Science and Technology Highly Cited Paper Award.***

Highly Cited Papers are papers that were in the top 20 cited papers out of the thousands of papers published in ES&T and designated as “Highly Cited articles” because they were in the top 1% of the most-cited papers during the last 10 years. Citations are counted from all sources, and are cumulated from the year of publication through the current year.

http://pubs.acs.org/journals/promo/most/highly_cited/index.html

* ***The following paper was the 3rd most cited papers published in ES&T for 2006.***

Yeung, L. W. Y, I. M. K., So, G. Jiang, S. Taniyasu, N. Yamashita, M. Song, Y. Wu, J. Li, J. P. Giesy and P. K. S. Lam. 2006. Perfluorooctanesulfonate and Related Fluorochemicals in Human Blood Samples from China. *Environ. Sci. Technol.* 40:715-720.

* The following paper was the 11th most cited papers published in ES&T for 2005-2007, 3rd most cited paper in ES&T for 2006-2008 and 4th most cited paper all time in ES&T.

* Giesy, J. P. and K. Kannan. 2001. Global Distribution of Perfluorooctane Sulfonate and Related Perfluorinated Compounds in Wildlife. *Env. Sci. Technol.* 35:1339-1342.
<http://pubs.acs.org/action/showMostCitedArticles?topArticlesType=sinceInception&journalCode=esthag>

* ***SETAC Environmental Education Award: 2002.*** This is one of the 5 most prestigious awards given by the Society of Environmental Toxicology and Chemistry (SETAC). “The award is presented annually to recognize an individual, group or organization for significant contributions to environmental education. You have been recognized by the society With: this award for contributions to improving environmental science curricula and development of programs to enhance environmental literacy and awareness at the undergraduate and graduate levels at your university and throughout the world as well as through participation in many advisory boards, foundations, committees and consultancies. In addition the award represents a lifetime of impact on all aspects of environmental science through the many outstanding students, post docs and visiting scientists whom you have trained.”

* ***Who’s Who Award for Achievement: 2002***

* ***21st Century Award for Achievement: 2002***

* ***Sir E.W. Russell Lectureship Award: 2003***

Given by the British Soil Science Society for significant contributions in science.

* ***All-University Excellence in Diversity Award***—Individual Lifetime Achievement, Michigan State University: 2005

- * ***International Man of the Year: American Biographical Institute Board of International Research. 2007.*** For overall accomplishment and contributions to society.
- * ***Best student poster presentation:*** 34th Aquatic Toxicity Workshop, Halifax, Nova Scotia, October 2, 2007. “Differential effects of environmental chemicals and selected pharmaceuticals on aromatase activity.” With: E. Higley, J.L. Newsted and M. Hecker, P.D. Jones and X. hang.
- * ***Best student platform presentation. 34th Aquatic Toxicity Workshop, Halifax, Nova Scotia, October 2, 2007.*** “Gene expression and histological structure as biomarkers of chemical exposure in Japanese medaka.” With: A. Tompsett, J.-W. Park, J.L. Newsted, M. Hecker, P.D. Jones and X. Zhang.
- * ***1st Runner-up best student platform presentation. 28th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), November 11-15, 2007, in Milwaukee, WS.*** For the presentation entitled “Development of Fluorescence in situ Hybridization (ISH) Techniques to Detect and Quantify Expression Profiles of Genes Along the HPG-Axis in Japanese Medaka”. With. AR. Tompsett, J. Park, X. Zhang, M. Hecker, P.D. Jones, J.L. Newsted and D. Au.
- * ***Environmental Toxicology and Chemistry Highly Cited Paper Award. The following paper was one of the 5 most cited papers published in ET&C during 2008:*** Solomon, K. R., D. B. Baker, R. P. Richards, K. R. Dixon, S. J. Klaine, T. W. LaPoint, R. J. Kendall, J. M. Giddings, J. P. Giesy, L. W. Hall, Jr., C. P. Weisskopf and W. M. Williams. 1996. Ecological Risk Assessment of Atrazine in North American Surface Waters. Environ. Toxicol. Chem. 15:31-76.
<http://www.setacjournals.org/perlserv/?request=index-html>
- * ***Environmental Science and Technology, Highly Cited Paper Award. The following paper: “Giesy, J. P. and K. Kannan. 2002. Perfluorochemical Surfactants in the Environment. Environ. Sci. Technol. 36:146A-152A”,*** which was a feature, cover article, has been recognized as being in the top 20 (ranked 2nd) most cited articles published by EST during the past 3 years and ranked 2nd all time.
<http://pubs.acs.org/action/showMostCitedArticles?topArticlesType=sinceInception&journalCode=esthag>
- * ***Einstein Professorship Award, Chinese Academy of Sciences, 2009***
- * ***Award of Innovation, University of Saskatchewan and Innovation Place, Saskatoon, Saskatchewan, 2010***
- * ***Election to the Royal Society of Canada: Academy of Science (Academy III), Division of Earth, Ocean and Atmospheric Sciences, Discipline of Earth Sciences, (https://en.wikipedia.org/wiki/Royal_Society_of_Canada) 2010***

- * ***King Saud Award in Environmental Science, King Saud University, Riyadh, Saud Arabia, 2011.*** Recognition as top-rated environmental scientist in the world. Gold medal and €100,000 prize.
- * ***BiMedLib Top Cited Papers:*** The article: “Giesy J.P., E.M. Snyder., K.M. Nichols, S.A. Snyder, S.A. Villalobos, P.D. Jones, and S.D. Fitzgerald. Examination of reproductive endpoints in goldfish (*Carassius auratus*) exposed in situ to municipal sewage treatment plant effluent discharges in Michigan, USA. *Environ. Toxicol. Chem.*; 2003 Oct;22(10):2416-31” was the top cited paper in it’s domain.
- * ***Top 50 most cited papers published in Chemosphere 2005-2010:*** So, M.K. Y. Miyake, W.Y. Leung, Y. M. Ho, S. Taniyasu, P. Rostkowski, N. Yamashita, B.S. Zhou, X.J. Shi, J.X. Wang, J. P. Giesy and P. K.S. Lam. 2007. Perfluorinated Compounds in the Pearl River and Yangtze River of China. *Chemosphere*, 68:2085-2095.
- * ***Number 1 rated environmental scientist in Canada, based on Hirsch Index Benchmarking of Academic Research (HI BAR).*** Globe and Mail, Report on Business Supplement page B7, Tuesday, March 27, 2012.
- * ***SCOPE-Zhongyu Environmental Sciences Life Achievements Award.*** This award, presented by The Scientific Committee on Problems of the Environment (SCOPE) and the Zhongyu Environmental Technologies Corporation recognizes a scientist/s or expert/s whose significant contributions have moved the frontiers of environmental science and technological innovation and environmental engineering. It is awarded every two years to one or two recipients. An engraved sculpture and a cheque for \$15,000 USD accompany each Award.
- * ***Top 100 papers cited in Environ. Toxicol. Chem. (SETAC).*** Four papers on which I am an author were in the top 100 papers published in ET&C over the last 30 years. The rankings With: number of citation in parentheses were: 4th (461), 23rd (225), 50th (160) and 53 (156)
- * ***"High Tier Foreign Expert Program" Ministry of Education, China:*** Through Nanjing University. 2012-2016, Certificate and \$14,000/Annually
- * ***2nd Runner up Award for Best Paper of the Year in Environmental Science and Technology for 2012.*** Wu, F.-C. Y.-S., Mu, C. Hong, X Zhao, J.P. Giesy and K.B. Wu. 2013. Predicting Water Quality Criteria for Protecting Aquatic Life from Physico-chemical Properties of Metals. *Environ. Sci. Technol.* 2013, 47:446–453. DOI.org/10.1021/es303309h (<http://pubs.acs.org/doi/full/10.1021/es401684v>)
- * ***Miroslaw Romanowski Medal in Environmental Science of the Royal Society of Canada.*** The *Miroslaw Romanowski Medal* is awarded by the *Royal Society of Canada* for significant contributions to the resolution of scientific aspects of environmental problems or for important improvements to the quality of an ecosystem in all aspects - terrestrial, atmospheric and aqueous - brought about by scientific means. The committee mandated to select the winner of the *Miroslaw Romanowski Medal* is composed of disciplinary peers who are Fellows of the *Royal Society of Canada*. The award comes with a \$3,000 honorarium and a Canada-wide lecture tour sponsored by the award. Prof Giesy was recognized for his many

contributions to resolution of scientific issues. Prof Giesy serves on the Scientific Advisory Board of the US Environmental Protection agency and is a frequent advisor to the Minister of Environment of Canada as well as other countries around the world. His citation indicates that he has been credited with 9 major discoveries in the field of environmental science and Ecology, in which he is the most often cited author in the world. Results of his research are used globally to set environmental standards and have resulted in control or in some cases cessation of use of chemicals that posed a threat to the environment. His work on perfluorinated chemicals was instrumental in several members of that class of compounds being placed on Annex B of the Stockholm Convention on Persistent Pollutants (POPs). November 2013.

* ***University of Saskatchewan J.W. George Ivany Internationalization Award.***

The award was established to recognize outstanding contributions by academic or administrative staff in furthering the process of internationalization at the University of Saskatchewan. The award has been named after Dr. J.W. George Ivany who provided significant personal leadership during his tenure of presidency to ensure the University formalized its commitment to internationalization. The award comes with a \$1,000 honorarium. October 2013

* ***Society of Environmental Toxicology and Chemistry Capacity-Building Award***

The Capacity-Building Award was created in 2008 to recognize individuals or groups for their contribution toward building capacity in the environmental sciences within countries with developing economies. "Capacity building" refers to a broad range of activities that might include any combination of education, professional development, training, and the development of analytical capabilities and other infrastructure that will support the principles and practices for protection, enhancement and management of sustainable environmental quality and ecosystem integrity. Emphasis is given to the promotion the advancement and application of scientific research related to contaminants and other stressors in the environment, education in the environmental sciences, and the use of science in environmental policy and decision-making. November, 2013.

* ***Peking University Famous Overseas Lecturer Award, June, 2014 ¥57,360***

* ***Best student paper award, 2014.*** "Exposure of honey bees (*Apis mellifera* L.) to Organophosphorous insecticides in Saskatchewan, Canada. With: Y. Al Naggar, A. Vogt, G. Codling, E. Naiem, M. Mona, Amal Seif, A. Robertson. The Acadian Entomological Society "Keeping Entomology on Track", 73rd Annual Meeting, Truro, NS, Canada, July 30 - August 1, 2014.

* ***Elected Fellow of the Society of Environmental Toxicology and Chemistry, November, 2014***

Fellows of the Society of Environmental Toxicology and Chemistry belong to a membership category established by the Society in 2014 to denote extensive contributions to SETAC and commendable service to the field of Environmental Toxicology and Chemistry. In the tradition of honorary membership categories of learned societies, SETAC Fellows are entitled to add the letters "Fellow SETAC" to abbreviations denoting degrees and professional certifications following their name. The group of SETAC Fellows will constitute a body that possesses institutional knowledge of the society and that includes individuals with recognized achievement in science and/or science policy. As such, they will serve as a sounding board

for the SETAC World Council and may be asked to help lead select efforts on behalf of the Society. The Fellows may also choose to meet at SETAC annual meetings on an ad-hoc basis to share insights and to offer suggestions to the SWC. Finally, the Fellows—or a group thereof—will serve as reviewers of future candidates for the *SETAC Fellow Award*. It is anticipated that not more than 10 new Fellows will be elected each year and that over time they would represent between 1 and 2% of the membership.

- * ***Paper received ACS Reward from American Chemical Society and was featured in SpectroscopyNow.com, 2014***

Guo, J.H., D. Chen, D. Potter, K.J. Rockne, N.C. Sturchio, J.P. Giesy, and A. Li,. 2014. Polyhalogenated Carbazoles in Sediments of Lake Michigan: A New Discovery. *Environ. Sci. Technol.* 48:12807-12815. DOI: 10.1021/es503936u

<http://www.spectroscopynow.com/details/ezone/149a38e8918/Halogenated%ADcarbazoles%ADNovel%ADcompounds%ADin%ADLake%ADMichigan%ADsediments.html?&tzcheck=1&tzcheck=1>

- * ***Water Security Research Excellence Award from Global Institute for Water Security, University of Saskatchewan, April 2015.***

- * ***University of Saskatchewan Science Ambassador to China, April 2015***

- * ***Distinguished Researcher Award, University of Saskatchewan, May 2016***

The Distinguished Researcher Award is presented annually to a member of the university research community and recognizes members of faculty for significant contributions to knowledge or artistic creativity in their areas of expertise with an emphasis on work undertaken while employed at the university.

- * ***Gold Medal Award for Best presentation, April 2016.*** “Organophosphorus insecticides in honey, pollen and bees (*Apis mellifera* L.) and their potential hazard to bee colonies in Egypt” With Al Naggar, Y., Codling, G., Vogt, A., Naiem, E., Mona, M. and Seif, A. To: 13th Asian Apicultural Association Conference. Jeddah Hilton Hotel, Jeddah, Kingdom of Saudi Arabia from April 24-26, 2016 .

- * ***Top 5 most highly cited papers published in Comparative Biochemistry and Physiology, Part C:*** Wiseman, S.B. Y. He, M. Gamal-El Din, J.W. Martin, P. D. Jones, M. Hecker and J.P. Giesy. 2013. Transcriptional Responses of Male Fathead Minnows Exposed to Oil Sands Process-affected Water. *Comp. Biochem. Physiol. Part C* 157:227–235

- * ***Top 5 most highly cited papers published in Comparative Biochemistry and Physiology, Part C:*** Schiller, V., A. Wichmann, R. Kriehuber, E. Muth-Köhne, J.P. Giesy, M. Hecker, M. Fenske. 2013. Studying the Effects of Genistein on Gene Expression of Fish Embryos as an Alternative Testing Approach for Endocrine Disruption. *Comp. Biochem. Physiol., Part C* 157:41–53.

- * **Erasmus Award, Masarek University, Czech Republic.** <https://czs.muni.cz/en/staff-from-abroad/teaching-at-mu/erasmus-icm>

- * **Best Student Poster Award, Canadian Ecotoxicity Workshop,**
 “Validating Environmental DNA Metabarcoding Methods via Conventional Taxonomic Identification in Ontario's Grand River Watershed” With: **N. Harper**, P. Marjan, M. Lynch, A. Doxey, M. Servos, P. Craig, B. Katzenback. To: 45th Canadian Ecotoxicity Workshop, Vancouver, BC, September 30 – October 3, 2018.

- * *Doctor Scientiarum Ambitalium Honors Causa*, conferred by Masaryk University: **Honorary Degree Doctor in the field of Environmental Sciences**, conferred by Masaryk University, Czech Republic. As part of the celebration of 100 years since the founding of Masaryk University, the university selected four individuals from a variety of fields who have made significant contributions to their field and Masaryk University.

- * **2021 Smart 50 Awards.** Smart 50 Awards, in partnership with Smart Cities Connect, Smart Cities Connect Foundation, and US Ignite, annually recognize global smart cities projects, honoring the most innovative and influential work. Strong applicants will represent innovative projects with current or future municipal-scale impact and application. The award was given to the City of Saskatoon and University of Saskatchewan for their joint program to use wastewater to monitor for SARS-CoV-2, the virus that causes COVID-19. <https://smartcitiesconnect.org/2021-smart-50-awards/>

- * **Essential Science Indicators (ESI) Highly Cited Paper (Top 1%).** As of May/June 2021, this Highly cited received enough citations to place it in the top 1% of it's academic field based on a highly cited threshold for the field and publication year. Data from Essential Science Indicators: Chen, L., Giesy, J.P., Adamovsky, O., Svirčev, Z., Meriluoto, J., Codd, G.A., Mijovic, B., Shi, T., Tuo, X., Li, S.-C., Pan, B.-Z., Chen, J., Xie, P., 2021. Challenges of using blooms of *Microcystis spp.* in animal feeds: a comprehensive review of nutritional, toxicological and microbial health evaluation. Science of the Total Environment 778, 145196.

BIOGRAPHICAL LISTINGS: Prof. Giesy is listed in 47 Biographical Listings

- * *Canadian Who's Who*: 2013-Present
- * *Who's Who in the World*: 1995-Present
- * *Who's Who in America*: 2005-Present
- * *Who's Who in American Colleges and Universities*: 1970
- * *American Men and Women of Science*: Annually, 1976-Present
- * *Who's Who in Government*: Annually, 1976-1980
- * *American Men and Women of Biology*: Annually, 1976-1982
- * *Who's Who in the South and Southwest*: Annually, 1976-1981
- * *Who's Who in the Midwest*: Annually, 1982-Present
- * *Great Lakes Experts Directory*: 1982
- * *International Directory of Distinguished Leadership*: Annually, 1985-Present
- * *Men of Achievement*: Annually 1985-Present
- * *International Who's Who of Intellectuals - Vol. VII*: Annually, 1985-Present
- * *The International Book of Honor*: 1985-Present
- * *Directory of Distinguished Americans*: Annually, 1985-Present
- * *Who's Who in Frontiers of Science and Technology*: Annually, 1985-Present
- * *Dictionary of International Biography*: Annually, 1985-Present
- * *Community Leaders of the World*: Annually, 1985-Present
- * *Personalities of America*: Annually, 1986-Present
- * *Who's Who in Technology Today*: Annually, 1986-Present
- * *Two Thousand Notable Americans*: Annually, 1986-Present
- * *University Council on Water Resources Expertise Directory*: 1986
- * *Who's Who in Science and Engineering*: Annually, 1991-Present
- * *Environmental Profiles: An International Directory of Projects and People*: 1991
- * *Air, Waste and Environmental Management Research Faculty Profile: Air & Waste Management Association*: Annually, 1992-Present
- * *Who's Who in Technology*: Annually, 1994-Present
- * *Who's Who in Science and Technology*: Annually, 1994-Present
- * *Who's Who in Science and Engineering*: Annually, 1994-Present
- * *Outstanding People of the 20th Century*: Annually, 2000-2005
- * *Outstanding People of the 21st Century*: Annually, 2006-Present
- * *The Dictionary of Leading Americans*: Annually, 2000-Present
- * *Strathmore's Who's Who*: 2002-Present
- * *America's Registry of Outstanding Professionals* 2002-2003
- * *Two Thousand Eminent Scientists of Today*, Annually, 2002-Present
- * *Two Thousand Outstanding Scientists*, 2008/2009
- * *Two Thousand Intellectuals of the 21st Century*, Annually, 2002-Present
- * *Two Thousand Outstanding Intellectuals of the 21st Century*: Annually, 2002-Present
- * *Living Legends*, International Biographical Centre, Cambridge, UK, 2003-Present
- * *Living Science, an in-depth guide to Contemporary Scientists and Their Work*, 2002-Present
- * *The Lifetime of Achievement Award*, International Biographical Centre, Cambridge, UK; 2003
- * *Dictionary of International Biography*, International Biographical Centre, Cambridge, UK; 2004-Present
- * *Cambridge Blue Book*; 32nd Edition, 2007
- * *Madison's Who's Who*, 2008-present

- * *Who's Who Among Executives and Professionals* (Honors Edition), 2008-2009
- * *Continental Who's Who*, 2008-Present
- * *International Profiles of Accomplished Leaders*, 2010-Present
- * *Who's Who in Canada*, 2011-Present
- * *International WHO'S WHO of Professionals*, 2012-Present

ADVISORSHIPS:

National Academy of Science (USA), National Institutes of Medicine and Natural Research Council Panels:

- 1) Committee on Hormone-Related Toxicants in the Environment: 1997-1999
- 2) Committee on Risk-Based Criteria for Non-RCRA Hazardous Waste: 1998-1999
- 3) Committee on Vietnam Agent Orange Research Interests and Priorities: 1998-1999
- 4) Committee on Assessment of Risks from Remediation of PCB-Contaminated Sediments: 1999-2001
- 5) Committee on Bioavailability of Pollutants from Soils and Sediments: 2000-2002
- 6) Committee on Strengthening Science-based Decision-making on Persistent Organic Pollutants (POPs) in China: 2003-2004. ***Chairperson***

Institute of Medicine (USA) Advisorships:

- 1) Testimony to Committee on Making the Best Use of the Agent Orange Reconstruction Model. 2007

National Institutes of Health (USA) Advisorships:

- 1) National Toxicology Program (NTP) Board of Scientific Councilors (BOSC), National Institutes of Environmental Health Sciences (NIEHS), of the National Institutes of Health (NIH): 2003-2006
- 2) NTP, NIEHS Technical Subcommittee, 2003-2009.

US Environmental Protection Agency (USA) Advisorships:

- 1) Board of Scientific Counselors (BOSC) Executive Committee for Office of Research & Development: 2004-2009
 - Nomination Committee, 2005
 - Committee on Risk Assessment Workshop, US EPA/US NAS, 2004-2005
 - Chair, Subcommittee to Review Program in Sustainability, ORD
 - Chair, Subcommittee for Midcycle Review of Program in Sustainability, 2008

- 2) Science Advisory Board (SAB) Chartered member of the Executive Committee, 2008-2014.
 - Member Standing Committee on EPA Science and Technology Awards Committee, 2008, 2009, 2010
 - Member committee on “Science for Decisions”, 2008-2011
 - Member committee to review US EPA report entitled “Hydraulic Fracturing Study Plan”. 2011
- 3) “Assessment of Potential Effects of the Herbicide Atrazine to Amphibians.” With: K.R. Solomon, J.A. Carr, L.H. DuPreez, R.J. Kendall, E.E. Smith, and G.J. van der Kraak, August 5, 2003, Washington, D.C.
- 4) “Assessment of Potential Effects of the Herbicide Atrazine to Amphibians.” With: K.S. Solomon, J.A. Carr, L.H. DuPreez, R.J. Kendall, E.E. Smith, and G.J. van der Kraak, October 9, 2007, Washington, D.C.
- 5) “Tier II Scientific Assessment of Toxicity and Risks of Flowable Formulations of Carbofuran to Birds” With: Lou Best, Larry Brewer, Dwayne Moore, and Keith Solomon. February 5, 2008, Washington, D.C.

Canada National

Environment Canada Advisorships:

- 1) Briefing to Deputy Ministers “Monitoring of Contaminants in the Environment: Perfluorinated Compounds—A Case History. 2006.
- 2) Advised the research division of Environment Canada on the 25-year strategic plan.
- 3) Chair of “Board of Review on Siloxanes”. Provided report to Minister of Environment of Canada on state of the science on Siloxanes. 2010-2011.

Health Canada:

- 1) Member Chemical Management Plan (CMP) Science Committee. 2017-2020.

Natural Sciences and Engineering Research Council of Canada (NSERC)

- 1) Member of the Biological Systems and Functions Evaluation Group, 2012-2015.
- 2) Member NSERC’s Plastics Science for a Cleaner Future Selection Committee, 2020-Present

Canadian Water Network

- 1) National Research Advisory Group for the Canadian Coalition for Wastewater-Based COVID-19 Research, 2020-present

Canada Institute for Health Research (CIHR)

- 1) Member Evaluation group, 2015, 2016, 2017
- 2) Member College of Reviewers (<http://www.cihr-irsc.gc.ca/e/51148.html>), 2018-present

Provincial

Saskatchewan Ministry of the Environment

- 1) Committee to develop the Saskatchewan Environmental Code, industrial corrective action sub-committee. 2010-2011.

Alberta Ministry of Environment Advisorships

- 1) Chair "Water Monitoring Data Review Committee". The committee was established to examine current monitoring data, compare it to historical data and interpret the significance of any differences relative to oils sands development and provide a report to the Minister of Environment of Alberta. 2010-2011.

Alberta Environmental Monitoring, Evaluation and Reporting Agency (AEMERA)

- 1) Science Advisory Panel (SAP), 2014-2016

Alberta Minister of Environment and Parks Science Advisory Panel

- 1) Established under s.15 of the Environmental Protection and Enhancement Act, the Science Advisory Panel is an advisory agency accountable to the Minister of Environment and Parks and responsible for providing advice and guidance regarding the environmental science program, delivered by the Chief Scientist, including review of its priorities, methodologies, and overall integrity. 2016-Present

World Health Organization Advisorships:

- 1) Development of Toxic Equivalency Factors of polychlorinated dibenzo-*p*-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs) for fish, birds and mammals: 1996-1999.
- 2) Global Assessment of the State-of-the-Science of Endocrine Disruptors. United Nations Environment WHO Program and International Programme on Chemical Safety: 1998-2000.

United Nations Advisorships:

- 1) Scientific Technical and Advisory Panel (STAP) Roster of Experts (Persistent Organic Pollutants). 2003

International Advisorships:

- 1) Scientific Advisory Panel of the Environment Agency, United Kingdom. 2004-2007.

- 2) Network on Environmental Risk Assessment and Management, Australian Research Council, 2004-2008.
- 3) Academic Committee Member, State Key Laboratory in Marine Pollution (SKLMP) City University of Hong Kong, Hong Kong, China. 2011-2013.
- 4) International Advisory Board, State Key Laboratory in Marine Pollution (SKLMP) City University of Hong Kong, Hong Kong, China. 2013-2016; 2020-Present.
- 5) Research Centre for Toxic Compounds in the Environment Centre (RECETOX), Faculty of Science, Masaryk University. Chair, Scientific Board/international Advisory Committee for Large Infrastructure Program, Ministry of Education, Youth and Sports. 2016-Present.

PROFESSIONAL ORGANIZATIONS:

Offices, Committees, Session Chairs and Meetings:

- * **American Association for the Advancement of Science:** 1981-present
- * **American Chemical Society** (Environmental Chemistry Division): 1976-1980, 1989-Present
 - (1) Environmental Improvement Committee, 1993-Present
 - (2) Organizer of Annual symposium for Division of Agrochemicals, Orlando, FL, April 7-April 11, 2002.
- * **American College of Toxicology:** 1990-93
- * **American Fisheries Society:** 1970-1976, 1988
- * **American Fisheries Society - Michigan Chapter:** 1984-2006
- * **American Institute of Biological Sciences:** 1978-2006
- * **American Institute of Fisheries Research Biologist:** 1982-2006
- * **American Society of Limnology and Oceanography:** 1970-1999
 - Program Committee. 39th Annual Meeting: 1976
 - Session Chairman, "Freshwater Phytoplankton," 39th Annual Meeting, Savannah, Georgia: 1976
- * **American Society for Testing Materials (Section E.47):** 1975-1997
 - Session Chairman "Comparison of Single and Multi-species Toxicity Testing". 14th Symposium on Aquatic Toxicity and Hazard Assessment. San Diego, CA., April: 1990
- * **The Association for Canadian Studies in the United States (ACSUS):** Review of proposals. 2003
- * **Aquatic Toxicology Workshop:**
 - Annual meeting, Saskatoon, Saskatchewan, 2008
 - Organizing Committee
 - Scientific Program Committee
 - Special Symposium organizer
 - Chair of Sponsorship committee
- * **Association of Southeastern Biologists:** 1976-1981

- * **Beta Beta Beta, Alma College Chapter: 1967-1970**
 - **President: 1969-1970**
 -
 - Frank Brooks Award: 1970
- * **Central Great Lakes Regional Chapter, Society of Environmental Toxicology and Chemistry: 1984-2006**
 - *Ad Hoc* Committee to start chapter; wrote bylaws and incorporated chapter
 - Charter Member
 - **President: 1984**
 - Secretary/Treasurer: 1986-1989
- * **Council of Scientific Society of Presidents: 1990-1991**
- * **Ecological Society of America: 1970-1985**
 - Publications Committee
- * **Federation of American Scientists for Experimental Biology:**
- * **Georgia Fisheries Workers: 1977-1980**
- * **Great Lakes United: 1985-2000**
- * **Institute of Ecology, University of Georgia: 1974-1981**
- * **International Association of Geochemistry and Cosmochemistry: Working Group on Natural Waters Protection from Pollution: 1976-Present**
- * **International Association for Ecology: 1974-1978**
- * **International Association for Great Lakes Research: 1982-1997**
 - Board of Directors: 1992-1995
 - Chairperson, Annual Meeting Committee: 1993-1996
 - Co-Chairperson, Annual Meeting, E. Lansing, MI: 1995
 - Session chairperson, "Biological Effects of Micro-contaminants". 28th Conference on Great Lakes Research, Milwaukee, WI: 1985
 - Session chairperson, Physiological and Biochemical Biomonitoring and Biomarkers", 37th Annual meeting, Windsor, Ontario: 1994
 - Co-program Chairperson of Annual meeting, East Lansing, May 28-June 1, 1995.
- * **International Association for Sediment Water Science: 1990-Present**
 - Board of Directors: 1992-1995
 - Chairperson, Meetings Committee: 1993-1996

- Fellowship Committee: 1993-1996
- Session Chair, Bioavailability and Toxicity
- Session Chair, Interactions Between Organisms and Sediment. The Interactions Between Sediments and Water. 5th International Symposium. Uppsala, Sweden: August, 6-9, 1990
- * **International Association for Water Research: 1974-1990**
- * **International Association on Water Quality: 1990-Present**
- * **International Conference on Water Resources and Environment Research**
 - Member Scientific Organizing committee 2019 meeting at Hohai University, Nanjing, China
- * **International Water Association: 1999-Present**
 - Specialist Group on Hazard Assessment and Control of Environmental Contaminants
 - Board of Directors, 2000-2002
 - Program Committee, 3rd annual water Congress, Melbourne, Australia, April 7-12, 2002
- * **International Humic Substances Society: 1982-1999**
- * **International Phycological Society: 1972-1976**
- * **International Society for the Study of Xenobiotics: 1981-Present**
- * **International Society for Ecotoxicology and Environmental Safety (SECOTOX): 1985-Present**
 - Board of Directors: 2005-2008
 - Scientific Organizing Committee, World SECOTOX Conference, September 5-7, 2005, Brno, Czech Republic.
 - International Scientific Committee, International Conference on Ecotoxicology-2006: Trends and Perspectives, September 17-20, 2006, Wisla, Poland
- * **International Society of Theoretical and Applied Limnology: 1972-1997**
 - Co-convener "Ecotoxicology" 23rd Congress Hamilton, NZ: February 1987
 - Editorial Board 23rd Congress: 1987
 - Workshop on simulating light for Limnological Studies, Hamilton, NZ: February, 1987
 - Co-organizer Workshop on Ecotoxicology, 24th Congress; Munich, Germany: August, 1989.
 - Session Chair: "Fish", 24th Congress; Munich, Germany: August, 1989
 - Session Chair: "Ecotoxicology", 24th Congress; Munich, Germany, August 1989
 - Session Chair: "Biomarkers in ecotoxicology - Wildlife, 13th Annual Meeting, Cincinnati, Ohio, 1992

- Session Chair: "Great Lakes Region Toxicology" 13th Annual Meeting, Cincinnati, Ohio: 1992
- * **International Statistical Ecology Program:** 1982-Present
- * **International Water Association:** 1999-Present
 - Board of Directors: 2000-2003
- * **Michigan Academy of Science Arts and Letters:** 1969-1974; 1987-2006
- * **Midwest Pollution Control Biologists:** 1988-2006
- * **North American Benthological Society:** 1971-1974; 1980-1981
- * **Phycological Society of America:** 1979-1981
- * **Royal Society of Canada:** 2010-Present
 - (1) Oversight Committee for Crude Oil in Water Panel, 2014-2015
- * **Society for Environmental Geochemistry and Health:** 1979-1990
- * **Sigma Xi-Michigan State University Chapter:** 1974-2006
 - **President: 1993-1994**
 - Vice President: 1992-1993
 - Nominations Committee: 1990-1993
- * **Society for Environmental Geochemistry and Health:** 1981-Present
- * **Society of Environmental Toxicology and Chemistry (SETAC):** 1979-Present
 - Charter Member: (1979)
 - **President: 1990-1991**
 - Vice President: 1989
 - Executive Director Evaluation Committee: 1992, Chairperson
 - Board of Directors: 1986-1992
 - Executive Committee: 1988-1992
 - Associate Editor for Special Publications (Biology), 1988-1990
 - Technical Committee: 1984-1987
 - Regional Chapters Committee: 1984-1985
 - Awards Committee: 1985-1987
 - Program Committee: 1982
 - Meetings Committee: 1990-1993
 - Nominations Committee: 1992, Chairperson
 - Historian: 1992-1996
 - Proctor and Gamble Student Fellowship Award Committee: 1985-1987

- Editorial Board, Environmental Toxicology: 1988-1989
- Long-range Planning Committee Chairperson: 1990
- Chairperson, Ad hoc Committee for Institution Subscriptions: 1985-1986
- Chairperson, Ad hoc Committee for European Regional Chapters: 1986-1987
- Past Presidents Council: 1992-Present. Chairperson 1992-1993
- Liaison to American Chemical Society, Committee on Environmental Quality: 1993-Present
- Ad hoc Committee to Develop Better SETAC-Government Liaison. Subcommittee of Technical Committee: 1986-1987 Chairperson
- Session Chairperson, 3rd Annual Meeting, Washington, D. C., November: 1982
- Session Chairperson, "Pharmacokinetics" 6th Annual Meeting, November, St Louis, MO: 1985
- Instructor, Pre-conference Workshop on Pharmacokinetics, 6th Annual Meeting, St. Louis, MO: November, 1985
- Participant "Strategic Planning Meeting", Gulf Breeze, FL: Jan., 1989
- Session Chairperson, "Co-Planar PCBs" 10th Annual Meeting, Toronto, Canada: 1989
- Session Chairperson, "Toxicant-related Issues in the Great Lakes Region", 13th Annual Meeting, Cincinnati, Ohio: November, 1992
- Session Chairperson, "Biomarkers of the Effects of Toxicants on Wildlife", 13th Annual Meeting, Cincinnati, Ohio: November, 1992
- Session Chairperson, "Biosensors", 20th Annual Meeting, Philadelphia, PA, November, 1999
- Member panel on "Support of Science-Based Decisions Concerning the Evaluation of Toxicity of Mixtures"
- Session Chair "Perfluorinated Chemicals, 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland

*** SETAC-Europe.**

- Liaison from SETAC to start SETAC-Europe: 1987-1990
- Scientific committee for World Congress Lisbon, Portugal: 1993
- Annual meeting, June 21-28, Potsdam, Germany: 1992
- Session Chair: Marine Pollution Issues First World Congress, Lisbon, Portugal: 1993
- Session Chair: Status & Trends of Bird Populations: The roles of contaminants 5th Annual meeting, June 25-28, 1994, Copenhagen
- Scientific Program Committee, 5th Annual meeting, June 25-28, 1994, Copenhagen
- Session Chair: Biotransformation. 7th Annual meeting, April 6-10, 1997, Amsterdam, The Netherlands
- Session Chair: "Biosensors for Environmental Monitoring", 8th annual meeting, April 14-18, 1998, Bordeaux, France.

*** SETAC-Pacific Rim**

- Annual Meeting Organizing Committee, Beijing, 2006
- Annual Meeting Organizing Committee, Guanzhou, 2010

*** SETAC Foundation for Environmental Education.**

- Board of Directors: 1992-Present
 - Chairman of the Board of Directors: 1992-1993
 - Vice President of Board of Directors: 1994-1995
 - President of Board of Directors: 1994-1995
 - Vice President of Board of Directors: 1996-1999
- * **Society of Toxicology; Michigan Regional Chapter: 1984-2006.**
- * **Water Pollution Control Federation: 1970-1997.**

PUBLICATIONS 1,321 (See separate list of publications):

Professor Giesy has published 1,321 peer-reviewed works: 82 book chapters, 1,154 open literature, journal articles, 5 feature articles, 3 special publications, 3 theses, 7 books written, 11 books edited, 4 textbook chapters, 5 published reviews, 27 published reports, and 20 special reports. Prof. Giesy is a highly cited author and is among the top 0.001% of active authors in the world (ISI) and the most cited author in the world in the combined fields of Ecology and Environmental Sciences with an Hirsch (H) index of 133 (Google Scholar®: <http://scholar.google.com/citations?user=vt-PMP8AAAAAJ&hl=en>) with more than 79,930 citations. His i10 Index (number of papers cited more than 10 times) is 979.

PRESENTATIONS:

Prof. Giesy has made 1,667 presentations. These include 821 to local, national and international meetings of scientific societies (See section on memberships in professional societies); 525 to workshops and symposia and 322 invited lectures and seminars. He has served as program or session chair on 122 occasions at scientific meetings. He has been an invited participant at 244 workshops or symposia.

ABSTRACTS READ at MEETINGS OF SOCIETIES (795):

* **American Association for the Advancement of Science: (1)**

- (1) “Concentrations of Cd, Cu, Mn, Pb, and Zn in Fishes in a Highly Organic Soft Water Pond.” With: J. G. Wiener. AAAS, Houston, Texas. 1978.

* **American Chemical Society: (19)**

- (1) “Cadmium, Copper and Lead Binding Capabilities of Naturally Occurring Organics.” To: National Meeting, Miami, FL, 1978.
- (2) “Anomalous Breakthrough of Benzo(a)pyrene during Concentration With: Amberlite^R XAD-4 Resin from Aqueous Solutions.” With: P. F. Landrum. To: National Meeting, Las Vegas, NV, September, 1980.
- (3) “Photochemically Activated Toxicity.” To: Great Lakes Regional Chapter Annual Meeting. *Invited*, plenary paper in special session, *Environmental Update: Problems of the Great Lakes Region*. May, 1984.
- (4) “Polychlorinated Aromatic Hydrocarbons in North Pacific Albatrosses: Contamination Exceeds Thresholds for Effects”. To: Pacific Chapter Annual Meeting, Dec. 1995. With: J.P. Ludwig, C.L. Summer, and P.D. Jones
- (5) “Instrumental and Bioanalytical Measures of Endocrine Disruptors in Water”. With: S.A. Snyder, D.L. Villeneuve, T.L. Keith, E.M. Snyder, A.L. Blankenship and K. Kannan. To: 216th Annual Meeting, August 23-30, 1998, Boston. MS.
- (6) “Pharmacokinetic Behavior of PFOA and PFOS in Chickens (*G. gallus*) Administered Through Subcutaneous Implantation”. With: H. Yoo, K. S. Guruge, N. Yamanaka, C.

Sato, and N. Yamashita. To: 232 Annual Meeting, San Francisco, California, Sept. 10-14, 2006.

- (7) “Towards a model of the environmental fate and long-range atmospheric transport of chlorpyrifos and its oxon.” With: D. McKay and K.R. Solomon. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (8) “Ecological risk assessment for chlorpyrifos in terrestrial and aquatic systems in North America – overview and conclusions”. With: K.R. Solomon, D. Mackay, J.M Giddings, W.M. Williams, D.R. Moore, J. Purdy and C. Cutler. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (9) “Risks of Chlorpyrifos to Pollinators: Risk Assessment. With: G.C. Cutler, J. Purdy, and K.R. Solomon. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (10) “Exposures of aquatic organisms to chlorpyrifos from use in North America”. With: W.M. Williams, J.M Giddings, J. Purdy, and K.R. Solomon. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (11) "A refined avian risk assessment for agricultural uses of granular chlorpyrifos in the United States". With: D.R.J. Moore, R.S. Teed, C.D. Greer, K.R. Solomon and J.P. Giesy. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (12) "A refined avian risk assessment for agricultural uses of flowable chlorpyrifos in the United States". With: D.R.J. Moore, R.S. Teed, C.D. Greer, K.R. Solomon and J.P. Giesy. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (13) “Risks to aquatic organisms from the use of chlorpyrifos in North America”. With: J.M Giddings, W.M. Williams, K.R. Solomon. To: 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (14) “Properties and Uses of Chlorpyrifos in the United States”. With: K.R. Solomon, W. Williams, D. McKay, J. Purdy and J.M. Giddings. To: Ecotoxicological Risk

Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.

- (15) “Exposures to Aquatic Organisms from Use of Chlorpyrifos in North America”. With: W. Williams, J.M. Giddings, J. Purdy and K.R. Solomon. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (16) “Ecological Risk Assessment for Chlorpyrifos in Terrestrial Systems in North America: Conceptual Model for Pollinators”. With: J. Purdy, C. Cutler and K.R. Solomon. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (17) “Pesticides as POPs and PBTs: An Assessment of Chlorpyrifos. With: K. Solomon, N. Poletica and J. Anderson. To: Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the US. 246th ACS National Meeting & Exposition, Indianapolis, Indiana USA, September 8-12, 2013.
- (18) “Assessing pesticides for properties related to POPs and PBT: Chlorpyrifos as an example”. With: K.R. Solomon, D. Mackay and J. Anderson. To: 247th Annual Meeting, August 10-14, 2014, San Francisco.
- (19) “Untargeted Screening and Apportionment of Brominated Compounds in House Dust”. With: B. Dhungana, H. Peng, B. Subedi, P.D. Jones, J.P. Giesy and G.P. Cobb. To: Fall ACS national meeting, August 20-24, 2017, Washington, D.C.

* **American Chemical Society-Great Lakes Regional Chapter: (2)**

- (1) “Emerging Issues of Concern to the Great Lakes”. With: K. Kannan. To: 33rd Regional Meeting of the Great Lakes Chapter of the American Chemical Society, June 11-13, 2001, Grand Rapids, MI.
- (2) “An Historic Perspective on Contaminants in the Great Lakes”. With: P.D. Jones. To: 33rd Regional Meeting of the Great Lakes Chapter of the American Chemical Society, June 11-13, 2001, Grand Rapids, MI.

* **American Chemical Society-Pan Pacific Conference: (1)**

- (1) “Atrazine and Amphibians: Lessons Learned from Risk Assessment of Reproductive Effects.” With: K. R. Solomon, J. Carr, R. Kendall, E.E. Smith, L.H. Du Preez and G. van der Kraak. To: 4th Pan Pacific Conference, June 1-5, 2008, Honolulu Hawaii.

* **American College of Toxicology: (1)**

- (1) “Effects of Planar Chlorinated Hydrocarbons on Fish, Fish-eating Birds and Furbearers in the Great Lakes Region”. Annual Meeting, Orlando, Florida, November, 1990. *Invited*.

* **American Fisheries Society: (11)**

- (1) “Frequency Distributions of Trace Metal Concentrations in Five Species of Freshwater Fishes.” With: J. G. Wiener. Annual Meeting, Detroit. 1976.
- (2) “Chemical Analysis of Fishes for Monitoring Trace Metal Contamination of Surface Waters.” With: J. G. Wiener. 109th Annual Meeting, September, 1979.
- (3) "Hepatic Enzyme systems as biochemical indicators of the effects of contaminants on chinook salmon reproduction". With: G. T. Ankley and D. E. Tillitt. Annual Meeting, Toronto, Canada. September, 1988.
- (4) "Detroit River sediment quality assessment by the *Chironomus tentans* bioassay". With: C. J. Rosiu and R. G. Kreis. 118th Annual Meeting, Toronto, Canada. September, 1988.
- (5) "Characterization of epidermal growth factor binding in hepatic plasma membranes of rainbow trout". With: J. L. Newsted, 118th Annual Meeting, Toronto, Ontario. September, 1988.
- (6) "Sediment toxicity evaluation using Microtox^R and seven-day *Pimephales promelas* larval survival and growth assays". With: R. A. Hoke, G. T. Ankley and J. L. Newsted. 118th Annual Meeting, Toronto, Ontario. September, 1988.
- (7) "Hepatic enzyme systems of biochemical indicators of the effects of contaminants on chinook salmon reproduction". With: G. T. Ankley and D. E. Tillitt. 118th Annual Meeting, Toronto, Ontario. September, 1988.
- (8) "Coplanar polychlorinated biphenyl (PCB) congeners in trimmed fillets of Lake Michigan chinook salmon: Implications for fish consumption advisories". With: L. L. Williams. 121th Annual Meeting, San Antonio, TX. April, 1991.
- (9) “Status and Trends in Concentrations of Xenobiotics in and Their Effects on Fishes of the Great Lakes”. 126th Annual Meeting, Dearborn, Michigan, August, 1996. *Invited*
- (10) “Calibration of Biomarkers of Environmental Estrogen Exposure to Relevant Reproductive Endpoints”. With: K.M. Nichols, V. Kramer, S. Pierens and S. Miles-Richardson. To: 127th Annual Meeting, Monterey CA, August, 1997.
- (11) “Effects of Estrogenic Substances on Laboratory and Feral Fishes”. With: P. D. Jones, S. A. Villalobos and D. L. Villeneuve. To: 129th Annual meeting, August 29-September 2, 1999, Charlotte, North Carolina. *Invited*

* **American Fisheries Society - Michigan Chapter: (3)**

- (1) "The Histological and Biochemical Consequences of Subacute Cadmium Exposure: A Comparison of Methods for the Evaluation of Toxic Effects." With: D. Versteeg. Annual Meeting. E. Lansing, MI. March, 1984. *Invited.*
 - (2) "Anthracene Phototoxicity in Sunfish: Dose/dose-rate Response and Predictability in the Environment." With: J. Oris. Annual Meeting, East Lansing, MI. March 19, 1984. *Invited.*
 - (3) "Toxicity of Detroit River Sediments." Annual Meeting, March, 1987. *Invited.*
- * **American Society of Mechanical Engineers: (1)**
- (1) "The Use of Artificial Ecosystems in Ecological Research." National Meeting, November, 1977. Atlanta, Georgia. *Invited.*
- * **American Society of Limnology and Oceanography: (12)**
- (1) "Growth Stimulation of the Green Alga *Scenedesmus obliquus* (Türp) Kutz by Humic Acids." 38th Annual Meeting. 1975.
 - (2) "Metals Associated With: Dissolved Organic Carbon in Two Southeastern Streams." 39th Annual Meeting. 1976.
 - (3) "Metal Binding Capacity of Soft, Acid Organic Waters." 40th Annual Meeting. 1977.
 - (4) "Effects of Naturally Occurring Aquatic Organic Fractions on Cadmium Toxicity to *Simocephalus serrulatus* (Daphnidae) and *Gambusia affinis* (Poeciliidae)." With: G. J. Leversee and D. R. Williams. 41st Annual Meeting. 1978.
 - (5) "Metal Binding Capacity of Selected Maine Surface Waters." With: L. A. Briesse. 1st Winter Meeting. 1978.
 - (6) "Cadmium and Zinc Accumulation and Elimination by Freshwater Crayfish." 2nd Winter Meeting. 1979.
 - (7) "Seasonal Variation of Phosphoadenylate Concentrations and Adenylate Energy Charge in Two Freshwater Clams." 43rd Annual Meeting. 1980.
 - (8) "The use of *in situ* floating microcosms to study decomposition processes in a southeastern blackwater stream." With: M. Allred. 43rd Annual Meeting. February, 1980.
 - (9) "Effects of Dissolved Organic Carbon on Accumulation of Polycyclic Aromatic Hydrocarbons by *Daphnia magna*." With: G. J. Leversee, T. Fannin and P. F. Landrum. 44th Annual Meeting, Raleigh, NC, June, 1982.

- (10) "Biochemical Indicators of Stress." With: D. Versteeg and R. Graney. 48th Annual Meeting. Cosponsored by Ecological Society of America, American Society of Limnology and Oceanography and International Joint Commission. Minneapolis, MN, June, 1985. *Invited*.
- (11) "Effects of Ultraviolet Radiation on Freshwater Algae." With: W. R. Gala. 49th Annual Meeting. Narragansett, RI. June, 1986.
- (12) "The effects of current and future ultraviolet-B (UV-B) intensities on primary production in Lake Michigan." With: W. Gala. 51st Annual Meeting. Boulder, CO., June, 1988.

* **American Society for Testing Materials (Section E.47): (7)**

- (1) "Benzo(a)pyrene Kinetics in Several Laboratory Microcosms. 4th ASTM Symposium on Aquatic Toxicology." With: G. S. Leversee, S. Gerould, R. Schloesser, J. Bowling, J. Haddock and S. Bartell. October, 1979.
- (2) "Fate of Aromatic Hydrocarbons in Stream Microcosms: A Stimulation Model." 4th Symposium on Aquatic Toxicology and Hazard Assessment. With: S. M. Bartell, J. P. Giesy, P. Landrum and G. J. Leversee. 1980.
- (3) "Research Needs on Using Multispecies Tests to Assess the Effects of Chemicals on Aquatic Life." 8th Annual Aquatic Toxicology Symposium, Ft. Mitchell, KY. April, 1984. *Invited*.
- (4) "Field Utilization of Clinical Measures of Xenobiotic Stress." With: D. L. Versteeg and R. L. Graney. 10th Symposium on Aquatic Toxicology and Hazard Assessment. New Orleans, LA. May, 1986.
- (5) "Using Flow Cytometric Techniques to Assess the Toxicity of Sodium Dodecyl Sulfate (SDS) and Atrazine to Algae." With: W. Gala. 13th Symposium on Aquatic Toxicity and Hazard Assessment, Atlanta, GA. April, 1989.
- (5) "The H4IIE Rat Hepatoma Cell Bioassay as a Tool for the Assessment of Bioaccumulation". With: D. E. Tillitt, P. D. Jones, J. L. Newsted, D. A. Verbrugge. 14th Symposium on Aquatic Toxicity and Hazard Assessment, San Francisco, CA. April, 1990.

* **American Society of Zoologists: (1)**

- (1) "The Effects of Nutritional Stress on Muscle Phosphoadenylate Concentrations and Adenylate Energy Charge of Surface and Cave Crayfish." Annual Meeting, Miami, FL. 1980.

* **The Association for Canadian Studies in the United States (ACSUS): (2)**

- (1) "Impact of Toxic Substances on Fish and Wildlife of Trans-boundary Aquatic Ecosystems." 20th Annual Meeting, November 20-23, 1991. Boston, Massachusetts. *Invited.*
 - (2) Panel Discussion "The Importance of an Interdisciplinary Approach to U.S. Canada Environmental Resource Management." 20th Annual Meeting, November 20-23, 1991. Boston, Massachusetts. *Invited.*
- * **Association of Southeastern Biologists: (2)**
- (1) "Change in Adenylate Energy Charge of *Corbicula fluminea* (Pelecypoda) Foot Muscle Tissue due to Cadmium Exposure." With: R. D. Bingham and C. S. Duke. Annual Meeting, Tuscaloosa, AL. 1978.
 - (2) "Effects of Cadmium on Adenylate Energy Charge in the Crayfish (*Procambarus pubescens*)." With: C. S. Duke, G. W. Dickson, G. J. Leverssee and R. D. Bingham. Annual Meeting, Tuscaloosa, AL. 1978.
- * **Beta Beta Beta, Alma College Chapter: (1)**
- (1) "Effects of Automobile Exhaust on Forest Litter Invertebrates." North Central Regional Annual Meeting, Bowling Green, OH. With: Arlan L. Edgar. Best Paper Award. 1970.
- * **British Soil Science Society: (1)**
- (1) "Perfluorinated Compounds in the Environment-A Novel Class of Environmental Contaminants". To: Annual meeting, September 8-10, 2003, Aberdeen, Scotland. *Invited, Plenary Keynote* (Russel Lecture).
- * **Canadian Society of Chemistry: (4)**
- (2) "Trace Metal Speciation of Wyoming Surface Waters." 70th Annual Meeting, Quebec City, Quebec. 1987. *Invited.*
 - (2) "Estrogenic Compounds in Aquatic Systems: In vivo and in vitro Methods for Monitoring for Exposure and Effects". Symposium on Endocrine Disruptors, 80th Annual Meeting Canadian Society for Chemistry, May 31-June 4, 1997, Windsor, ON. *Invited*
 - (3) "Acute Toxicity of Neutral-, Acid-, and Base-extractable Fractions of Oil Sands Process-affected Water to Fathead Minnow (*Pimephales promelas*) Embryos". With: S.B. Wiseman, A. dos Santos Pereira, N. Remend1, Y. He, R. Mankidy, and. To: 97th Canadian Chemistry Conference. June 1-5, 2014, Vancouver, BC, Canada. *Invited*
 - (4) "Estimating the Bioaccumulation Potential of Organic Compounds in Oil Sands Process-affected Water by PolydimethylSiloxane-coated Stirbar and Solid-Supported Lipid Membranes". With: K. Zhang, A. dos Santos Pereira, S. Wiseman and J. Martin.

To: 97th Canadian Chemistry Conference and Exposition. June 1-5, 2014, Vancouver, B.C. Canada, *Invited*

* **Canadian Ecotoxicology Workshop: (27)**

- (1) “The major Environmental Issues Faced by Canada”. . To: 42nd Annual Meeting, Canadian Ecotoxicology Workshop. October 4-7, 2015, Saskatoon, SK, Canada. *Invited, Plenary Keynote.*
- (2) “Inferring Long-term Algal Dynamics in Prairie Reservoirs (Saskatchewan, Canada) through Environmental DNA in Cores of Sediments.” With: T. Tse, M. Hecker, L. Doig, H. Wheeler, P. Jones. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (3) “Health Status of Fishes from the Athabasca and Slave River System, Northern Canada.” With: P. Jones, A. Hill, B. Tendler, E. Ohiozebau, E. Kelly. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (4) “Characterization of Metallothionein in Two Ancient Fishes Exposed to Metals: White Sturgeon and Lake Sturgeon.” With: S. Beitel, J. Doering, B. Eisner, T. Heide, H. Hollert, M. Hecker, S. Wiseman. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (5) “Effects of the Novel Brominated Flame Retardant 1,2,5,6-tetrabromocyclooctane (TBCO) on Reproductive Capacity of 2 Generations of Japanese Medaka.” With: S. Wiseman, J. Sun, D. Saunders, J. Kuzma. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada
- (6) “Characterization of the Endocrine Potencies of Municipal Effluents across Canada using in vitro Bioassays.” With: T. Bagatim, S. Hanson, H. Yuan, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, L. Bragg, H. Dhiyebi, M. Servo, C. Gauthier, F. Gagne, M. Hecker. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada
- (7) “In vitro and In vivo Oxidative Stress Responses of Oil Sands Process-affected Water.” With: J. Sun, H. Alharbi, H. Peng, S. Wiseman. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (8) “Reproductive and Histopathological Effects of Municipal Wastewater Effluent Exposure in Male and Female Fathead Minnows.” With: K. Steeves, S. Hanson, T. Bagatim, S. Wiseman, P. Jones, M. Hecker, A. Hontela, N. Hogan. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (9) “Reproductive and General Health Assessment of Fathead Minnow (*Pimephales promelas*) populations inhabiting an effluent-dominated stream, Wascana Creek, SK, Canada.” With: S. Hanson, T. Bagatim, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, M. Hecker. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.

- (10) “Exposure of Fish in the Athabasca and Slave Rivers to PAHs Potentially Derived from Petrogenic Activities.” With: E. Ohiozebau, B. Tendler, G. Codling, E. Kelly, P. Jones. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (11) “Characterization of Toxicity Pathways of 2,3,7,8-TCDD, PCB 77, and Benzo[a] pyrene in White Sturgeon using Whole Transcriptome and Proteome Analyses.” With: J. Doering, S. Tang, S. Wiseman, H. Peng, B. Eisner, J. Sun, M. Hecker. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (12) “Determination of Acute and Sub-Chronic Toxicity of Emerging Contaminants to Early Life Stages of Rainbow Trout (*Oncorhynchus mykiss*) .” With: D. Schultz, S. Tang, S. Beitel, B. Sarauer, S. Hanson, D. Janz, S. Wiseman, P. Jones, M. Hecker. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (13) “Chemodynamic Behavior of Thallium in the Slave River, Northwest Territories, Canada.” With: B. Tendler, A. Hill, E. Ohiozebau, P. Jones. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (14) “Assessing the Mechanistic Toxicity of Oil Sands Process Affected Waters (OSPW).” With: G. Morandi, S. Wiseman, J. Martin, A. Pereira, R. Mankidy, M. Guan, X. Zhang. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (15) “Effect of Dissolved Organic Compounds from Oil Sands Process Affected Water (OSPW) on Toxicity of 7-isopropyl-1-methylphenanthrene (retene) to Early Life-stages of Japanese Medaka (*Oryzias latipes*).” With: H. Alharbi. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada.
- (16) “The brominated flame retardant TBCO affects fecundity and transcript profiles of the HPGL-axis in Japanese medaka.” With: D. Saunders, S. Wiseman. To: 42nd Annual Meeting, October 4-7, 2015, Saskatoon, SK, Canada..
- (17) “Predicting the Sensitivity of any Oviparous Vertebrate to any Dioxin-like Compound Based on In Vitro Activation of the AHR.” With: J. Doering, S. Wiseman, A. Alcaraz and M. Hecker. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.
- (18) “Effect of Lipid Partitioning on Predictions of Acute Toxicity of Oil Sands Process Affected Water to Embryos of Fathead Minnow (*Pimephales promelas*).” With: G. Morandi, K. Zhang, S. Wiseman, A. dos Santos and J. Martin. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.
- (19) “A Combined Transcriptomic and Proteomic Approach to Identify Toxicity Pathways in Early Life Stages of Japanese Medaka (*Oryzias latipes*) Exposed to 1,2,5,6-tetrabromocyclooctane (TBCO).” With: S. Wiseman, J. Sun, S. Tang, H. Peng, D. Saunders, T. Stang, J. Doering, M. Hecker and P.D. Jones. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.

- (20) “Reproductive and General Health Assessment of Fathead Minnow (*Pimephales promelas*) Populations Inhabiting an Effluent-Dominated Stream, Wascana Creek, SK.” With: S. Hanson, T. Bagatim, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P.D. Jones and M. Hecker. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.
- (21) “Characterization of the Endocrine Potencies of Municipal Effluents across Canada Using In Vitro Bioassays.” With: T. Bagatim, S. Hanson, H. Yuan, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P.C. Jones, L. Bragg, H. Dhiyebi, M. Servos, C. Gauthier, F. Gagné and M. Hecker. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.
- (22) “Reconstructing Cyanobacterial Population Trends in Freshwater Lakes using Metagenomic Techniques and Physicochemical Analyses.” With: T. Tse, S. Tang, S. Wiseman, L. Doig, M. Hecker and P.D. Jones. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.
- (23) “Characterization of Molecular Toxicity Pathways of Selected Emerging Contaminants to Elucidate Species-specific Sensitivity of Three North American Fishes.” With: J. Alcaraz, B. Eisner, D. Schultz, S. Tang, S. Wiseman, P.D. Jones and M. Hecker. To: 43rd Annual Meeting, September 25-28, 2016, Edmonton, AB.
- (24) “Alteration of Secreted miRNA from Stressed Rainbow Trout Identified via High Throughput Sequencing” With: H. Ikert, M. Lynch, P. Marjan, A. Doxey, M. Servos, B. Katzenback, P. Craig. To: 45th Canadian Ecotoxicity Workshop, Vancouver, BC, September 30 – October 3, 2018.
- (25) “Temporal Changes in Brook Trout (*Salvelinus fontinalis*) Environmental DNA (eDNA) Detection Rates in a Grand River Sub-Watershed, Ontario: Washington Creek Case Study” With: P. Marjan, B. Katzenback, A. Doxey, P. Craig, H. Dhiyebi, M. Servos. To: 45th Canadian Ecotoxicity Workshop, Vancouver, BC, September 30 – October 3, 2018.
- (26) “Validating Environmental DNA Metabarcoding Methods via Conventional Taxonomic Identification in Ontario's Grand River Watershed” With: N. Harper, P. Marjan, M. Lynch, A. Doxey, M. Servos, P. Craig, B. Katzenback. To: 45th Canadian Ecotoxicity Workshop, Vancouver, BC, September 30 – October 3, 2018.
- (27) “From Challenges to Recommendations for Brook Trout (*Salvelinus fontinalis*) Environmental DNA (eDNA) Method Development” With: P. Marjan, B. Katzenback, A. Doxey, P. Craig, M. Servos. To: 45th Canadian Ecotoxicity Workshop, Vancouver, BC, September 30 – October 3, 2018.

* **Canadian Society of Toxicology; (1)**

- (1) Anthropogenic and Naturally Occurring Brominated Compounds, Annual meeting, December 14, 2012, Montreal, Quebec. ***Invited, Plenary Keynote***

* **Canadian Society of Zoologists (1)**

- (1) Perfluorinated Chemicals in the Environment: Anatomy of an Environmental Issue. Annual Meeting, May 25-29, 2015, Calgary, AB. *Invited*

* **Central Great Lakes Regional Chapter, Society of Environmental Toxicology and Chemistry:**

* **Chesapeake-Potomac Regional Chapter of SETAC: (1)**

- (1) "Bioavailability of Lead by Swine: A Hazard Assessment of Midvale, Utah. Annual Meeting, June 7, 1991, Washington, D.C.

* **Colonial Waterbird Society: (1)**

- (1) "Effects of Toxic Chemicals on Cormorants of the Great Lakes: Populations and Individuals". Annual Meeting, September 15-17, 1994, Oxford, Mississippi. With: J.P. Ludwig, D.V. Weseloh, G.A. Fox, M. Ludwig, and H. Auman.

* **Indiana, Ohio, Kentucky Regional Chapter of SETAC: (2)**

- (1) "Accumulation of Chlorinated Hydrocarbons by and Their Effects on Wildlife of the Great Lakes Region". Annual Meeting, June 14, 1991, Cincinnati, Ohio.
- (2) "Panel discussion on "Confronting Difficult Environmental Issues: Science and Regulation".

* **Ecological Society of America: (6)**

- (1) "Frequency Distributions of Cu, Zn, Ni, Cd and Pb in Populations of Five Freshwater Fishes." With: J. G. Wiener, A. Harmon and L. A. Bries. ESA (AIBS), Annual Meeting, New Orleans. 1976.
- (2) "Distribution Potential of *Myriophyllum spicatum* (Angiospermae, Haloragidaceae) in Soft water Systems." With: L. A. Tessier. ESA (AIBS), New Orleans. 1976.
- (3) "Effects of Stressors on Adenylate Nucleotide Concentration in Invertebrates." Annual Meeting With: American Institute of Biological Sciences. With: C. Duke, R. D. Bingham and S. Denzer. 1978.
- (4) "Trace Metal Speciation in Southeastern Surface Waters. Special Symposium on the Limnology in the Southeast." With: L. A. Bries. Annual Meeting With: AIBS, Athens, GA. 1978.
- (5) "Frequency Distributions of Essential and Nonessential Elements in *Micropterus salmoides*." With: J. E. Pinder, III. Annual Meeting. August, 1979.

- (6) "Implications of Southeastern Limnology for Trace Metal Movements and Effects." Aquatic Ecology in the Southeast, A symposium sponsored by the Southeastern Chapter of the Ecological Society of America, Augusta, GA. 1979.
- * **Entomological Society of America: (1)**
- (1) "Mesocosm Experimental Design Strategies: Advantages and Disadvantages in Ecological Risk Assessment". With: R. L. Graney. To Symposium on Using Mesocosms to Assess the Aquatic Ecological Risk of Pesticides; Theory and Practice. National Conference ESA, Boston, MA. November, 1987. *Invited*.
- * **Entomological Society of Canada: (1)**
- (1) "Effects of sub-lethal doses of organophosphorus insecticides on honey bee survival and learning". With: Y. Al Naggar, E. Naiem, M. Mona, A. Seif, C. Cutler, J.P. Giesy. To: Joint Annual meeting with Entomological Society of Saskatchewan. Saskatoon, Sk, Canada. September 28- October 1 2014.
- * **Federation of American Scientists for Experimental Biology: (1)**
- (1) "Studies of Renal Adenine Nucleotide Biochemistry in Mice With: the Chediak-Higashi Syndrome." With: K. Jamison and G. Padgett. Annual Meeting, Anaheim, CA. April, 1985.
- * **Geological Society of America: (4)**
- (1) "Spatial and Temporal Patterns of Mercury Loading in Michigan's Inland Lakes. With: M. Parsons, D. T. Long and S.S. Yohn". To: Annual Meeting, Denver, CO., November 7-10, 2004.
- (2) "Sources of Mercury to Michigan Inland Lakes" With: M.J. Parsons and D. Long. Geological Society of America. Annual Meeting, Denver, CO, October 28-31, 2007.
- (3) "Phosphorus Loading to Inland Lakes". With: M.J. Parsons, D.T. Long R.G. Vannier and L.N. Babcock. To: Annual Meeting, Denver, CO, October 28-31, 2007.
- (4) "Understanding the Response of Watersheds to Urbanization using Sediment chemical Chronologies" With: R.G. Vannier and D.T. Long. To: Annual Meeting, Charlotte, NC, November 4-7, 2012.
- * **Geological Society of America, North Central Section: (1)**
- (1) "Spatial and Temporal Trends of Polycyclic Aromatic Hydrocarbon Loadings Across the State of Michigan". With: D.T. Long, 47th Annual Meeting, 2-3 May 2013.
- * **Georgia Fisheries Workers: (1)**

- (1) "Adenylate Energy Charge as an Indicator of Stress in Invertebrates." 1979. *Invited*.
- * **Indiana Academy of Science: (1)**
- Annual Meeting, South Bend, IN, Nov. 1988.
- * **International Association for Great Lakes Research: (29)**
- (1) "Lysosomal Enzyme Release as an Indicator of Xenobiotic Exposure in Bluegill Sunfish." With: D. J. Versteeg. Annual Meeting, St. Catherine's, Ontario, May, 1984.
 - (2) "Relationship between Residue Contamination in Chinook Salmon and Rearing Temperature on Rearing Mortality." With: J. L. Newsted. Annual Meeting, St. Catherine's, Ontario, May, 1984.
 - (3) "Toxicity of Sediments in the Lower Detroit River." With: R. L. Graney, J. L. Newsted, C. J. Rosiu, F. Horvath and R. G. Kreis. Annual Meeting, Ann Arbor, MI, May, 1987.
 - (4) "Sediment Toxicity to Benthic Invertebrates in the Laurentian Great Lakes." With: R. L. Hoke. 31st Annual Meeting, Hamilton, Ont. *Invited Keynote Address*. May, 1988.
 - (5) "Detroit River Sediment Quality Assessment Using the *Chironomus tentans* Bioassay." With: C. J. Rosiu. 31st Annual Meeting, Hamilton, Ont., May, 1988.
 - (6) "Comparison of Ethoxyresorufin O-deethylase Induction in H4IIE rat Hepatoma Cells by Extracts from Great Lakes Environmental Samples With: Chemical Residue Analysis." 31st Annual Meeting, Hamilton, Ont., May, 1988.
 - (7) "Annual Discussion on Sediment Toxicity." 31st Annual Meeting, May, 1988, Hamilton, Ont., May, 1988.
 - (8) "Bioassessment of Freshwater Dredged Sediments". With: R. A. Hoke. 32nd Annual Meeting, Madison, WI., May, 1989. *Invited*.
 - (9) "Microtox^R and *Daphnia magna* as Indicators of Sediment Toxicity in the Lower Fox River and Green Bay, Wisconsin." With: R. A. Hoke. 32nd Annual Meeting, Madison, WI., May, 1989. *Invited*.
 - (10) "Bioassessment of Complex Mixtures of Polyhalogenated Hydrocarbons in Fish, Fish-eating Birds and Furbearers of the Great Lakes." With: P. D. Jones, J. L. Newsted, D. E. Tillitt, J. P. Ludwig, M. E. Ludwig, T. Kubiak, D. Best and G. T. Ankley. 33rd Annual Conference, Windsor Ontario, May 1990. *Invited*.
 - (11) "Toxicity in Eggs of Great Lakes Colonial Waterbirds 1986-1989." With: J. P. Ludwig, M. E. Ludwig, H. J. Auman, P. D. Jones, D. E. Tillitt, J. L. Newsted and D. A. Verbrugge. 33rd Annual Conference, Windsor, Ontario, May 1990.

- (12) "Uptake of Toxic Substances by Newly-hatched Double-crested Cormorant and Herring Gull Chicks at Eight Upper Great Lakes Sites in 1989". With: J. P. Ludwig, M. E. Ludwig, H. Kurita, H. J. Auman, P. D. Jones, D. E. Tillitt, J. L. Newsted and D. A. Verbrugge. 33rd Annual Conference, Windsor, Ontario, May 1990.
- (13) "2,3,7,8-TCDD Equivalents in Multiple Trophic Levels at Thunder Bay, Lake Huron, Determined by H-4-IIE Rat Hepatoma Cell Bioassay." With: P. D. Jones, D. E. Tillitt, J. L. Newsted, D. A. Verbrugge, N. DeGalan, G. T. Ankley, T. J. Kubiak, D. A. Best, and J. L. Ludwig. 33rd Annual Conference, Windsor, Ontario, May 1990.
- (14) "Mutagenicity of Sediments from the Grand Calumet River, IN: Comparison of Mutatox^R and Ames Assays". With: R. A. Hoke, A. E. Maccubbin and J. Tung. 34th Annual Meeting, Buffalo, NY. May, 1991.
- (15) "Coplanar Polychlorinated Biphenyl (PCB) Congeners and TCDD-equivalents in Fillets of Lake Michigan Chinook Salmon: Implications for Fish Consumption Advisories". With: L. L. Williams. 34th Annual Meeting, Buffalo, NY. June 2-6, 1991.
- (16) "Development of Toxic Equivalency Factors for Planar, Halogenated Hydrocarbons in Rainbow Trout (*Oncorhynchus mykiss*). With: J. L. Newsted, P. D. Jones, R. Crawford and J. Gooch. 34th Annual Meeting, Buffalo, NY. June 2-6, 1991.
- (17) "Calibration of *Daphnia magna* "Fluorotox" and *Hyaella azteca* Bioassays to the 48 hr *Daphnia magna* Protocol Using Copper-Spiked Sediments and Sediments Contaminated by Copper Mining Activities. With: J. A. Kubitz, E.E. Leweke-Klein, J. M. Besser. 36th Annual Meeting, De Pere, WS. June 6-10, 1993.
- (18) "Coplanar Polychlorinated Biphenyls (PCB's), TCDD - Equivalents (TEQ's) and Productivity in Eggs of Double - Crested Cormorants". With: L.L. Williams, J.M. Larson, W.H. Karasov, L. Sileo and K.L. Stromberg. 36th Annual Meeting, DePere, WS. June 6-10, 1993.
- (19) "Reproductive Performance of Mink Fed Saginaw Bay Carp: Dose Response Relationships for Total PCB's, Dioxin - Like Congeners, and Dioxin Equivalents". With: T.J. Kubiak, D.E. Tillitt, R.W. Gale, S.N. Heaton, S.J. Bursian, and R.J. Aulerich. 36th Annual Meeting, De Pere, WS. June 6-10-, 1993.
- (20) "The caffeine breath test: a method to measure cytochrome P45-IA1 activity in birds." With: L.A. Lindley and T.E. Bryant. 36th Annual Meeting, De Perve, WS, June 6-10, 1993.
- (21) "Penetration of Ultraviolet Radiation into Lake Michigan and Effects on the Primary Production of Natural Phytoplankton Assemblages" With: W. Gala. 37th Annual Meeting, Windsor, Ontario, June 7-11, 1994.

- (22) "Development of *in vitro* assays for assessing the immuno-modulatory effects of environmental contaminants on Great Lakes salmon." With: G.E. Noguchi and R.W. Bull, 37th annual meeting, Windsor, Ontario, June 7-11, 1994.
- (23) "The Caffeine Breath Test: A Novel Approach to Monitoring Cytochrome P450-1A Activity in Birds". With: L. Feyk, 37th annual meeting, Windsor, Ontario, June 7-11, 1994.
- (24) "Effects of Dredging on the Sediment Quality of Elizabeth Park Marina and Trenton Channel, Detroit River", With: J.M. Besser, J.A. Kubitz, S. Benzie, A. Ostaszewski and R. Kreis, 37th annual meeting, Windsor, Ontario, June 7-11, 1994.
- (25) "A Multi-Generational Study of the Effects of Consumption of Great Lakes Fish on Mink Reproduction" 37th annual meeting, Windsor, Ontario, June 7-11, 1994.
- (26) "Use of *In vitro* Assays for Assessing the Immunomodulatory Effects of Polychlorinated Biphenyls on Chinook Salmon", With: G. E. Noguchi, and R.W. Bull. To: 38th annual meeting, East Lansing, Michigan, May 28- June 1, 1995.
- (27) "Developmental deformities in double-crested cormorant and Caspian Tern chicks and embryos from the Upper Great Lakes". With: J.P. Ludwig, C.L. Summer, D. E. Tillitt, P.D. Jones, H. Kurita-Matsuba, H. Auman, and M.E. Ludwig. To: 38th annual meeting, East Lansing, Michigan, May 28- June 1, 1995.
- (28) "*In Vitro* Induction of Ethoxyresorufin O-deethylase (EROD) Activity and Porphorins by Halogenated Aromatic Hydrocarbons (HAHs) in Hepatocytes of Great Lakes Fish-eating Birds". With: J.T. Sanderson. To: 39th annual meeting, Toronto, Ontario, Canada, May 26- May 30, 1996.
- (29) "Toxicological perspectives of perfluorooctane sulfonate (PFOS) to aquatic organisms in the Great Lakes." With: J.L. Newsted and P.D. Jones. To: 49th Conference on Great Lakes Research, Windsor, Ontario, May 22-26, 2006.

* **International Association for Sediment Water Science: (3)**

- (1) "Sediment Toxicity Assessments: Whole Sediments Versus Pore Waters". With: R. A. Hoke. 5th International Symposium on the Interactions Between Sediments and Water. Uppsala, Sweden. August, 1990.
- (2) "Standardization of Sediment Bioassay Methods: Rationale for Development of a *Hyallela azteca* Bioassay". With: J. A. Kubitz and J. M. Besser. International Symposium on Sediment Quality Assessment, Göteborg, Sweden, August 22-25, 1994.
- (3) "Assessment of Metal Bioavailability in Contaminated Sediments Using a Bioaccumulation and Growth Assay With: *Chironomus tentans*" With: J. M. Besser, J. A. Kubitz and C.A. Ingersoll. International Symposium on Sediment Quality Assessment, Göteborg, Sweden, August 22-25, 1994.

* **International Association for Water Research: (1)**

- (1) "Uptake of Americium-241 by Algae and Bacteria." With: D. Paine. 8th International Conference of the International Association on Water Pollution Research, Sydney, Australia. 1976.

* **International Humic Substances Society: (2)**

- (1) "Conditional Stability Constants for Copper Complexation by Dissolved Organic Carbon in the Southeastern United States." With: J. J. Alberts and D. W. Evans. Second International Congress, Birmingham, England, July, 1984.
- (2) "A Comparison of Scatchard Analysis and a Gaussian Distribution Model to Determine a Conditional Stability Constant for the Uranyl Ion - Humic Complex." With: R. A. Geiger, J. J. Alberts and N. R. Kevern. Second International Congress, Birmingham, England, July, 1984.

* **International Society for Ecotoxicology and Environmental Safety: (2)**

- 10th Biennial International Symposium on Chemical and Toxicology Aspects of Environmental Quality. November, 1987, Munich, Germany.

* **International Society of Theoretical and Applied Limnology: (6)**

- Workshop on Biomonitoring the Environment. Hamilton, NZ., February, 1987.
- (1) "Trace Metal Transport by Particulates and Organic Carbon in Two South Carolina Streams." 20th Congress. Copenhagen, Denmark. 1977.
 - (2) "Phospho-adenylate Concentrations and Energy Charge as Measures of Responses of two Freshwater Crustaceans to Stressors." 21st Congress. Kyoto, Japan, August, 1980.
 - (3) "Cadmium Partitioning and Related Effects in Parasitized and Non- parasitized Mosquito fish (*Gambusia affinis*: Poeciliidae)." With: D. Smith. 22nd Congress, Lyon, France, August, 1983.
 - (4) "Clinical Measures of Toxicant-induced Stress in Aquatic Organisms." 23rd Congress, Hamilton, New Zealand, February, 1987. *Invited. Special Symposium.*
 - (5) "Ecotoxicology in Europe and North America". With: A. Sördegren, P. D. Hansen, P. Calow, R. Baudo. 24th Congress, Munich, Germany, August, 1989.
 - (6) "Assessment of Contaminated Sediments". With: R. A. Hoke, C. J. Rosiu, K. G. Grzyb and G. T. Ankley. 24th Congress, Munich, Germany, August, 1989. *Invited.*

* **International Society of Regulatory Toxicology and Pharmacology: (1)**

- (1) "The Impact of Endocrine-Mediated Effects on Wildlife". Assessing the Risks of Adverse Endocrine-Mediated Effects, January 13-14, 1997, Research Triangle Park, NC. *Invited*
- * **International Weed Science Society: (1)**
- (1) "Atrazine and Amphibians: Reproductive Effects and Risks from Agricultural Uses". With: K.R. Solomon, J.A. Carr, L.H. Du Preez, R.J. Kendall, E.E. Smith and G.J. van der Kraak. To: Int. Weed Science Conf. Vancouver, British Columbia, Canada from June 23-27 2008. *Invited*
- * **Michigan Academy of Science Arts and Letters: (6)**
- (1) "Effects of Automobile Exhaust on Forest Litter Invertebrates." With: A. L. Edgar. Annual Meeting, E. Lansing, MI, 1971.
 - (2) "The Use of Tris-(Hydroxymethyl)-Amino Methane in the Culture and Bioassay of the Green Alga *Scenedesmus obliquus* (Turp) Kutz." With: N. R. Kevern. Annual Meeting, E. Lansing, MI, 1974.
 - (3) "Colonial Waterbirds and Environmental Contamination in the Great Lakes". With: D. E. Tillitt. Annual Meeting, Grand Rapids, MI, 1989.
 - (4) "Adaptation of an Unialgal Population to Zooplankton Grazing". With: W. Gala and R. Hoke. Annual Meeting, Grand Rapids, MI, 1989.
 - (5) "Characterization of Epidermal Growth Factor to the Hepatic Plasma Membranes of the Rainbow Trout (*Salmo gairdneri*)". With: J. L. Newsted. Annual Meeting, Grand Rapids, Michigan 1989.
 - (6) "An Overview of Methods for Assessing the Effects of Pollutants on Benthic Invertebrates". With: R. A. Hoke. Annual Meeting, Albion, Michigan 1990. *Invited*.
- * **Michigan Alliance for Environmental and Outdoor Education: (1)**
- (1) "Bald Eagles in Michigan". Annual Meeting, May 1-3, 1992, Hillsdale, Michigan *Invited*.
- * **Michigan Occupational and Environmental Medicine Association: (1)**
- (1) "Concentrations of Synthetic Compounds in and their Effects on Fish-Eating, Colonial Water Birds of the Great Lakes". Annual Conference, June 11-12, 2000, Dearborn, Michigan. *Invited, Plenary*
- * **Michigan Society for Risk Assessment: (1)**

- (1) "Wildlife Hazard Assessment: A Great Lakes Perspective". With: W.W. Bowerman, D.Best, R. Aulerich and S. Bursian. Annual meeting November 21, 1994, Ann Arbor, Michigan
- * **Midwest Pollution Control Biologists: (1)**
- (1) "Sediment Toxicity Assessment in the Great Lakes". Annual Meeting, Chicago, IL, April, 1990. *Invited.*
- * **New England Estuarine Research Foundation: (1)**
- (1) "Cadmium Toxicity to the Cladoceran *Simocephalus* in Humic vs. Non-humic Fresh Waters." Woods Hole, MA., October, 1976.
- * **North American Benthological Society: (5)**
- (1) "Uptake and Depuration Kinetics of a Polycyclic Aromatic Hydrocarbon in *Chironomus riparius*." With: S. Gerould, G. Leversee and P. Landrum. 28th Annual Meeting, Savannah, GA., March, 1980.
 - (2) "The Utility of Chironomids as Test Species for Sediment Contaminant Evaluations". With: R. A. Hoke. 37th Annual Meeting, Guelph, Ont. Canada, April, 1989. *Invited.*
 - (3) "Relationship of Metal Bioaccumulation to Toxicity in Freshwater Invertebrates". With: J. Besser, J. Kubitz and C. Ingersoll. 42 Annual meeting, Orlando, Florida, May 1995 *Invited.*
 - (4) "Toxicity of Detroit River Sediments to Benthic Invertebrates". With: J.A. Kubitz and J.M. Besser, 42 Annual meeting, Orlando, Florida, May 1995 *Invited.*
 - (5) "Relationship of Metal Bioaccumulation to Toxicity in Freshwater Invertebrates". With: J.M. Besser and C.G. Ingersoll. 43 Annual Meeting, 42 Annual meeting, Orlando, Florida, May 1995. *Invited.*
- * **Society of Environmental Toxicology and Chemistry (SETAC): North America: (457)**
- (1) "The Effect of Chronic Cadmium Exposure on Phosphoadenylate Concentrations and Adenylate Energy Charge in Gill and Dorsal Muscle Tissue of Crayfish." With: G. W. Dickson and L. A. Briesse. Washington, D.C., November, 1980.
 - (2) "Assessment of Environmental Exposure to Pollutants using Biochemical Measures." 2nd Annual Meeting, Washington, D. C., November, 1980.
 - (3) "Sunlight Induced Toxicity of Anthracene to Daphnids." With: P. M. Allred. 4th Annual Meeting, Washington, D. C., November, 1983.

- (4) "The Lysosomal Enzyme Release Assay as a Measure of Cadmium Induced Stress in the Bluegill Sunfish, *Lepomis macrochirus*." With: D. J. Versteeg and J. Oris. 4th Annual Meeting, Washington, D. C., November, 1983.
- (5) "Photo-enhanced Toxicity of Anthracene in Bluegill Sunfish." With: J. T. Oris and D. J. Versteeg. 4th Annual Meeting, Washington, D. C., November, 1983.
- (6) "Conditional Stability Constants for Copper Complexation by Dissolved Organic Carbon in the Southeastern United States." With: J. J. Alberts and D. W. Evans. 5th Annual Meeting, Washington, D. C., November, 1984.
- (7) "Alterations in the Free Amino Acid Pool of *Gammarus pseudolimnaeus* (Amphipoda) as a Sub-lethal Toxic Response to Pentachlorophenol." With: R. L. Graney. 5th Annual Meeting, Washington, D. C., November, 1984.
- (8) "Alterations in the Free Amino Acid Pool of freshwater Invertebrates Chronically Exposed to Pentachlorophenol: Potential Application in Laboratory and Field Hazard Assessment." With: R. L. Graney. 6th Annual Meeting, St. Louis, MO, November, 1985.
- (9) "Effect of Photoperiod and Concentration on the Light-Mediated Toxicity of Anthracene to Juvenile Bluegill Sunfish." With: J. T. Oris. 6th Annual Meeting, St. Louis, MO, November, 1985.
- (10) "Quantitative Structure-Activity Model of Photodynamic Toxicity of PAH to *Daphnia magna*." With: J. L. Newsted. 6th Annual Meeting, St. Louis, MO, November, 1985.
- (11) "Effect of Photo-induced Toxicity of PAH to *Daphnia magna* Reproduction." With: L. Holst. 7th Annual Meeting, Washington, D. C., November, 1986.
- (12) "Toxicity of Sediments in the Detroit River-1986: Relative Sensitivities of Three Assays." With: R. L. Graney, J. L. Newsted, C. J. Rosiu, R. G. Kreis and R. J. Horvath. 8th Annual Meeting, Pensacola, FL. November, 1987.
- (13) "Effect of Chlorpyrifos on Production of the Nile Fish *Tilapia*." With: M. M. Shereif, Annual Meeting, Pensacola, FL. Eighth Annual Meeting. November, 1987.
- (14) "Dose-Response Relationships for Benthic Invertebrate Bioassays With: Toxic Sediment and Pore Water." With: C. J. Rosiu, R. A. Hoke, R. L. Graney and M. G. Henry. 9th Annual Meeting, Washington, D.C., November, 1988.
- (15) "The Future of Sediment Toxicity Assessments: Relevant Answers Require the Appropriate Questions." With: R. A. Hoke, G. Ankley and C. J. Rosiu. 9th Annual Meeting, Washington, D.C., November, 1988.
- (16) "Sublethal Effects of the Organophosphorus Insecticide Dursban^R (Chlorpyrifos) on the Nile Fish *Tilapia*." With: M. M. Shereif, 9th Annual Meeting, Washington, D.C., November, 1988.

- (17) "PCB Congeners and Rearing Mortality in Lake Michigan Chinook Salmon." With: L. Williams, 9th Annual Meeting, Washington, D.C., November, 1988.
- (18) "Relative Sensitivities of Four Bioassays of Toxicity of Sediments in the Grand Calumet River, Indiana." With: R. A. Hoke, W. R. Gala, K. R. Grzyb and C. J. Rosiu. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (19) "Reproductive Effects in Mink Fed Carp From Saginaw Bay, Michigan." With: S. N. Heaton, R. J. Aulerich, S. J. Bursian, D. E. Tillitt, J. A. Render and T. J. Kubiak. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (20) "PCB Congeners and Rearing Mortality in Eggs from Lake Michigan Chinook Salmon." With: L. Williams. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (21) "Flow Cytometric Techniques to Assess Toxicity to Algae." With: W. R. Gala. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (22) "Comparison of the Toxicity of Sediment Porewater to the Alga, *Selenastrum capricornutum* as Assessed in Acute and Chronic Toxicity Tests." With: W. R. Gala and R. A. Hoke. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (23) "Passive Samplers for the Monitoring of Bioavailable Organic Contaminants from Sediments." With: K. R. Grzyb. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (24) "Reproductive Implications of Coplanar PCBs in Lake Michigan Chinook Salmon: Determination of Biological Potency With: the H-4-II-E Hepatoma Bioassay." With: G. T. Ankley and D. E. Tillitt. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (25) "Utilization of the H-4-II-E rat Hepatoma Cell Bioassay in Evaluating the Toxicity of Coplanar PCBs to Colonial, Fish-eating, Waterbirds in the North American Great Lakes." With: D. Tillitt, G. T. Ankley, J. Ludwig and T. Kubiak. 10th Annual Meeting, Toronto, Ont., Canada, November, 1989.
- (26) "Bioaccumulation and Biomagnification of Bio-active Organochlorine Contaminants as Determined by Bioassay and Chemical Analysis." With: P. D. Jones, G. T. Ankley, T. J. Kubiak, D. A. Best, J. P. Ludwig, M. E. Ludwig, H. Auman, S. Tanabe and N. Yamashita. 11th Annual Meeting, Washington, D.C., November 9-15, 1990.
- (27) "Biochemical Effects of Planar Halogenated Hydrocarbons on Rainbow Trout (*Onchorhynchus mykiss*)." With: J. L. Newsted. 11th Annual Meeting, Washington, D.C., November 9-15, 1990.

- (28) "Effects of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) on the hepatic epidermal growth factor receptor of rainbow trout." With: J. L. Newsted. 11th Annual Meeting, Washington, D.C., November 9-15, 1990.
- (29) "Comparison of Site-Specific, Bioassay-Based, Sediment Quality Criteria (SQC) to Global, Numerical, Chemistry-Based SQC for Selected Great Lakes Sediments". With: D. A. Verbrugge, R. A. Othoudt, R. A. Hoke, J. B. Drake, K. R. Grzyb and D. J. Anderson. 11th Annual Meeting, Washington, D.C., November 9-15, 1990.
- (30) "Levels of Organochlorines in Bald Eagles from the Great Lakes Basin". With: W. W. Bowerman. 11th Annual Meeting, Washington, D.C., November 9-15, 1990.
- (31) "Development of Sediment Quality Criteria: Is There Reason in the Rationale?" With: R. A. Hoke. 11th Annual Meeting, Washington, D.C. November 11-15, 1990.
- (32) "Potential Confounding Factors in the Assessment of Sediment Pore Water and Effluent Toxicity using Cladocerans. With: R. A. Hoke, W. R. Gala, and J. B. Drake. 11th Annual Meeting, Washington, D.C. November 11-15, 1990.
- (33) "Planar, Chlorinated Hydrocarbons in the New Zealand Environment". With: P. D. Jones, T. J. Kubiak, D. A. Best and D. Scott. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (34) "Reproductive Effects of Feeding Great Lakes Fish to Laying Hens". With: C.L. Summer, R.J. Aulerich, S.J. Bursian, J.A. Render and T.J. Kubiak. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (35) "Reproductive Performance of Mink Fed Saginaw Bay Carp." With: S. N. Heaton, R.J. Aulerich, S.J. Bursian, J.A. Render, D.E. Tillitt and T.J. Kubiak. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (36) "Persistent Organochlorines and Embryonic Abnormalities in Three Species of Colonial Waterbirds From the Upper North American Great Lakes." With: N. Yamashita, S. Tanabe, T. Iida, R. Tatsukawa, J.P. Ludwig, H. Kuita, M.E. Ludwig, H.J. Auman, T.J. Kubiak, D.A. Best, P.D. Jones and D.E. Tillitt. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (37) "The in Vivo and in Vitro Effect of 2,3,7,8-TCDD on the Epidermal Growth Factor Receptor of Rainbow Trout." With: J.L. Newsted. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (38) "Alterations in the Biological Potency of Environmental Planar Chlorinated Hydrocarbons." With: P.D. Jones, J.L. Newsted, D.A. Verbrugge, D.E. Tillitt, G.T. Ankley, T.J. Kubiak, D.A. Best, J.P. Ludwig and M.E. Ludwig. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.

- (39) "Small Volume Bioassay for Assessing the Toxicity of Contaminated Sediments using the Amphipod *Hyaella Azteca*." With: J.A. Kubitz. 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (40) "Dioxin-like Toxic Potency in Forster's Tern Eggs from Green Bay, Lake Michigan." 12th Annual Meeting, Seattle, WA. November 3-7, 1991.
- (41) "Toxicity of Sediments and Sediment Pore Waters from the Grand Calumet River-Indiana Harbor, Indiana Area of Concern." With: R. A. Hoke and M. J. Zabik. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (42) "Biomarker and Health, Status Technique for using Bald Eagles as Bio-indicator Species in the Great Lakes." With: W.W. Bowerman, IV and J.G. Sikarskie. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (43) "Use of Population Genetics to Determine Adult Turnover Rates in the Great Lakes Bald Eagles." With: W. W. Bowerman, IV, R. B. Crawford, D.C. Morizot and R.E. Schmidt. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (44) "PCBs in Plasma of Known-Age Caspian Terns Nesting in the Upper Great Lakes." With: M.A. Mora, D. Verbrugge, C.M. Lewis and S.A. Toles. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (45) "Partitioning Behavior of Non-polar Organic Compounds in Sediments from a Great Lakes Area of Concern." With: R.A. Hoke and M. J. Zabik. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (46) "Uptake of Planar PCBs and 2,3,7,8-substituted PCDFs and PCDDs by Birds Nesting in the Lower Fox River/Green Bay, WI." With: G.T. Ankley, G.J. Niemi, K.B. Lodge, H.J. Harris, K.L. Beaver, P.D. Jones and D.E. Tillitt. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (47) "Hepatic Glutathione Metabolism and Oxidative Stress in Mink fed Saginaw Bay Carp (SBC)." With: D.F. Hoffman, L. J. Le Captain, D. Smith, R. Aulerich and D. Tillitt. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (48) "A Comparison of Water Quality Criteria in the Great Lakes Basin Based on Human and Wildlife Health" With: J.P. Ludwig, H.J. Auman, C.L. Summer, and M. Gilbertson. 13th Annual Meeting, Cincinnati, Ohio, Nov. 8-12, 1992.
- (49) "Organochlorine contaminants and reproductive impairment of bald eagles at Voyageurs National Park, Minnesota." With: W. W. Bowerman, L. Grim, L. Kallemeyn, D.A. Best, K. Ensor, S. Smith and T.G. Grubb. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (50) "Accumulation and disposition of dietary 2,3,7,8-tetrachlorodibenzo-*p*-dioxin by rainbow trout." With: R. Crawford, P.D. Jones, D.E. Tillitt, G.T. Ankley, J.L. Newsted,

L.L. Williams and D.A. Verbrugge. 14th Annual Meeting, November 14-18, 1993, Houston, TX.

- (51) "Optimizing the experimental design of a sediment toxicity test using the Amphipod *Hyalella azteca*." With: J.A. Kubitz and J.M. Besser. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (52) "Structural factors affecting the binding of chlorinated organic contaminants and their hydroxylated derivatives to the estrogen receptor." With: V. J. Kramer and W. Helferich. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (53) "Decreases in coplanar polychlorinated biphenyls (PCBs) and TCDD-equivalents (TEQs) from 1977 to 1990 in eggs of red-breasted mergansers." With: L.L. Williams, G.H. Heinz and K.L. Stromberg. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (54) "Optimization of transfection methods for the RTH-149 fish cell line." With: C. Richter, V. Leykam, R. Crawford and M.S. Denison. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (55) "Concentrations of PCBs in water and suspended particulates from the Saginaw River, Michigan." With: D.A. Verbrugge, M. Mora, L. L. Williams, B. Crawford, R. Moll, R. Rossman and M. Tuchman. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (56) "The Caffeine breath test: a less invasive method to measure cytochrome P450-IA1 activity in birds." With: L.A. Lindley and T. E. Bryant. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (57) "Effects of aerobic and anaerobic incubation on the bioavailability of copper from lake sediments." With: J. M. Besser. 14th Annual Meeting, November 14-18, 1993, Houston, TX.
- (58) "Comparative Assessment of the Acute and Chronic Toxicity of Sediment Pore Waters to Daphnids". With: R.A. Hoke, and M.J. Zabik. 15th Annual Meeting, November, 1994. Denver, Co.
- (59) "Effects of Sample Holding Time and Manipulation on Toxicity of Sediment Pore Waters and Elutriates". With: R.A. Hoke, and M.J. Zabik. 15th Annual Meeting, November, 1994. Denver, CO.
- (60) "Metal Bioavailability in Freshwater Sediments: Influence of Acid-volatile Sulfide and Organic Matter" With: J.M. Besser and C.A. Ingersoll. 15th Annual Meeting, November, 1994. Denver, CO.
- (61) "Mink Biomagnification Factors from Food to Adult Livers Fed Saginaw Bay Carp". With: T. J. Kubiak, S.N. Heaton, S.J. Bursian, D. E. Tillitt J. A. Render and R. J. Aulerich. 15th Annual Meeting, November, 1994. Denver, Co.

- (62) "Mink Liver TEQs and Reproductive NOAEL Resulting from Dietary Exposure to Fish from Saginaw Bay". With: D. E. Tillitt, R.W. Gale, P.H. Peterman, T. J. Kubiak, S.N. Heaton, S.J. Bursian and R. J. Aulerich. 15th Annual Meeting, November, 1994. Denver, Co.
- (62) "Use, Limitations and Validation of Distributions of Computer Models Estimated Pesticide Concentrations in Surface Waters" With: H. Nelson, D. Laskowski and A. Barefoot. 15th Annual Meeting, November, 1994. Denver, Co.
- (63) "Ethoxyresorufin-o-deethylase Induction of Polychlorinated Diphenyl Ethers in H4IIE Cells" With: J. Koistinen, T.J. Sanderson, T. Nevalainen and J. Paasivirta. 16th Annual Meeting, November 5-9, 1995, Vancouver, British Columbia, Canada.
- (64) "Bioaccumulation of Selenium from Coal Fly Ash and Associated Environmental Hazards in a Freshwater Fish Community". With: J.M. Besser, R. Brown, T. Herdt and G. Dawson. 16th Annual Meeting, November 5-9, 1995, Vancouver, British Columbia, Canada.
- (65) "Comparison of a receptor-mediated luciferase and ethoxyresorufin-o-deethylase expression in H4IIE Cells: Their use as a Bioassay Tool". With: J.T. Sanderson, K.L. Froese, J.M.M.J.G. Aarts and A. Brouwer. 16th Annual Meeting, November 5-9, 1995, Vancouver, British Columbia, Canada.
- (66) "Total PCBs, TCDD-EQs in Eggs: Reproductive Hazards to North Pacific Albatrosses". With: J.P. Ludwig, H.J. Auman, C.L. Summer, J.M. DeDoes, D.A. Verbrugge and P.D. Jones. 16th Annual Meeting, November 5-9, 1995, Vancouver, British Columbia, Canada.
- (67) "The Effects of an Extract Derived from Contaminated Double-Crested Cormorant Eggs on the Developing Chicken". With: D.C. Powel, R.J. Aulerich, K. Stronborg, D.E. Tillitt, J.C. Meadows and S.J. Bursian. 16th Annual Meeting, November 5-9, 1995, Vancouver, British Columbia, Canada.
- (68) "Dioxin-like Toxicity in Great Lakes Fish-Eating Birds: Uncertainties in Hazard Assessment". With: D.E. Tillitt, T.J. Kubiak and J.P. Ludwig. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC.
- (69) "Hydroxylated PCB Metabolites are Anti-Estrogenic in a Stably Transfected Human Breast Adenocarcinoma (MCF-7) Cell Line". With: V.J. Kramer, W.T. Helferisch, Å. Bergman and E. Klasson-Wehler. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC
- (70) "Assessing the Direct Effects of Halogenated Aromatic Hydrocarbons on Salmon Immune Responses". With: G.E. Noguchi and R.W. Bull. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC.

- (71) “Reduction in Ah Receptor Mediated Activity Due to Anaerobic Microbial Dechlorination of PCB Mixtures”. With: M.A. Mousa, J. Quensen, S. Boyd, J.T. Sanderson and K.L. Froese. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC.
- (72) “Effects of Polyhalogenated Environmental Contaminants on Double-Crested Cormorant Embryos Exposed Prior to Incubation”. With: D.C. Powell, R.J. Aulerich, J.C. Meadows, D.E. Tillitt, J.P. Powell, J.C. Restum, K.L. Stromborg and S. Bursian. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC.
- (73) “Relationship Between Receptor Binding and Receptor Mediated Gene Expression for Several Potential Estrogen Agonists”. With: D.L. Villeneuve and V.J. Kramer. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC.
- (74) “Pathological Effects of 17 β -Estradiol in the Reproductive System of the Fathead Minnow (*Pimephales promelas*)”. With: S. Miles-Richardson, S. Fitzgerald, J. Render and V. Kramer. To: 17th Annual Meeting, November 17-22, 1996, Washington, DC.
- (75) “Butyltin Residues in Water Birds from Inland and Coastal Waters of North America” With: K. Kannan, K. Senthilkumar, J. Elliot, L. Feyk and D. Verbrugge. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (76) “Accumulation of Polychlorinated Biphenyls, Polychlorinated Dibenzo-*p*-dioxins and Dibenzodioxins in Biota Collected at a Superfund Site Contaminated With: Aroclor 1268”. With: K. Kannan, H. Nakata, R. Stafford, G. Mason and S. Tanabe. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (77) “Distribution of Total Mercury and Methylmercury in Water, Sediment and Fish From South Florida Estuaries”. With: K. Kannan, R. Smith, R.F. Lee and H.L. Windom. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (78) “Risks of Chlorpyrifos in the Aquatic Environment: I Problem Formulation and Stressor Characterization”. With: K.S. Solomon, J.R. Coats, J.M. Giddings, K.M. Dixon and E.E. Kenaga. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (79) “Risks of Chlorpyrifos in the Aquatic Environment: II Probabilistic Characterization of Exposure and Toxicity in Aquatic Organisms”. With: K.S. Solomon, J.M. Giddings, J.R. Coats, K.R. Dixon and E.E. Kenaga. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (80) “Risks of Chlorpyrifos in the Aquatic Environment: III Microcosms, Mesocosms, Models and Evaluation of Ecological Significance “. With: J.M. Giddings, J.R. Coats, K.R. Dixon, E.E. Kenaga and K.R. Solomon. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.

- (81) "Bioassay Analysis of Pulp Mill-Related Samples for Estrogenic and Dioxin-Like Compounds." With: A. Blankenship, J. Koistinen, K. Tukia, R. Soimasuo and Aimo Oikari. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (82) "Evaluation of Reproductive Endpoints in Goldfish Exposed *In Situ* to Waste Water Treatment Plant Effluents in South Central Michigan. With: E. M. Snyder, K. Nichols, S. Pierens and S. Snyder". To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (83) "Ecological Risk Assessment of Chlorpyrifos Exposure in Wildlife in Midwestern Corn Agroecosystems: A Probabilistic Approach". With: R. Kendall, L. Best, J. Coats, K. Dickson, H. Hooper, E. Kenaga, S. McMurphy and K. Solomon. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (84) "Approaches for Assessing Relative Estrogenic Potency of Environmental Samples Based on *In Vitro* Bioassay Results" With: D. Villeneuve, S. Snyder and A. Blankenship. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (85) "Catalytic and Immunochemical Properties of cytochrome P450-1A in Avian Species Treated With: β -naphthaflavone or Isosafrole". With: L. Feyk and J. Stegeman. "To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (86) "Toxicant Identification and Evaluation (TIE) of Endocrine Disrupters in Aqueous Mixtures". With: S. Snyder, D. Villeneuve, K. Kannan and E. Snyder. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (87) "Assessment off Chronic and Acute Toxicity of Polydimethylsiloxane (PDMS) to *Chironomus tentans* and *Hyallella azteca*." With: K.S. Henry. To: 18th Annual Meeting, November 16-20, 1997, San Francisco, CA.
- (88) "Development of a Novel Injury Quantification Approach for Organisms Exposed to Ah-Active Compounds: A case Study of the Fox River and Green Bay, Wisconsin". With: T.J. Iannuzzi, D.F. Ludwig, M.L., Moore, G.N. Bingham, A.L. Blankenship and K. Kannan. "19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (89) "Evaluating a Probabilistic Approach to Hazard Assessment for PCBs and Ecological Receptors for Natural Resource Injury Assessments". With: D.F. Ludwig, T.J. Iannuzzi and M.L. Moore. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (90) "Laboratory and Field Analyses of the Potential Toxicity of Polydimethylsiloxane (PDMS) to Benthic Invertebrates". With: K.S. Henry, A. Nocentini, W. Wieland, D. Rossi, M. Beltrami and R. Baudo. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (91) "Accumulation of Persistent Organic Pollutants in the Eggs of Southern Ocean Migratory Albatrosses." With: P.D. Jones, C.J.R. Robertson and K. Kannan. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.

- (92) "Risk Assessment for Dioxin Equivalents in Fish-Eating Birds of Galveston Bay, TX". With: S.L. Cholger-Blust, A.L. Blankenship, K. Kannan, D. Frank M. Mora, J. Sericano and S. Wainwright. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (93) "Polychlorinated Napthalenes (PCN) in Soil, Sediment and Biota Collected Near a Former Chlor Alkali Plant in Coastal Georgia. With: K. Kannan, A.L. Blankenship and T. Imagawa". 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (94) "Occurance of Butyltin Compounds in River Otters Collected from Riverine and Estuarine Areas in Washington and Oregon States". With: K. Kannan, K. Senthilkumar, R.A. Grove and C. Henny. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (95) "Contamination by Organochlorine Pesticides and Polychlorinated Biphenyls in Sea Otters (*Enhydra lutris nereis*) Found Stranded Along Coastal California)". With: H. Nakata, K.Kannan, J. Li, N. Thomas and S. Tanabe. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (96) "*In vitro* Bioassays in the Assessment of Ah-Receptor- and Estrogen Receptor-Mediated Activity in Water". With: K.T. Lee, D. Villeneuve, K.Kannan and C.H. Koe. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (97) "Bioassays to Validate Diets for their Use in Aquatic Toxicological Research." With: K. Kemler, C.A. Duda, A.L. Blankenship, S.A. Villalobos, K. Kannan and D.E. Hinton. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (98) "Relative Toxicity of Polychlorinated Napthalenes (PCNs) to Medaka After *In Ovo* Wxposure: Early and Partial Life Cycle Assessments". With: S.D. Pastva, S.A. Villalobos, A.L. Blankenship, K. Kannan, D.M. Papoulias, J. Meadows and D.E. Tillitt. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (99) "Species-Specific Recombinant Cell Bioassays: Differences in Sensitivity to Complex Mixtures of Halogenated Aromatic Hydrocarbons (HAHs)". With: D.L. Villaneuve, K. Staffova and K. Kannan. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (100) "Butyltins in Fishes and Sediments of the Southern Baltic Sea". With: C.A. Duda, K. Senthilkumar, D.L. Villeneuve, K. Kannan and J. Falandysz. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (101) "Accumulation of Butyltin Residues in Southern Sea Otters Found Dead Along Coastal California". With: K. Kannan, K.S. Guruge, N.J. Thomas, and S. Tanabe. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.

- (102) “Methods for Determining Estradiol and Ethinylestradiol Concentrations in Water Samples”. With: S.A. Snyder, T.L. Keith, E.M. Snyder, and K. Kannan. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (103) “Relative Potencies of Halowax Mixtures and Individual Polychlorinated Napthalenes in H44IIE-Luciferase Cells”. With: A.L. Blankenship, K. Kannan, S.A. Villalobos and J. Falandysz. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (104) “Interaction of Tributyltin With: 3,3',4,4',5-Pentachlorobiphenyl-Induced Ethoxyresorufin-o-deethylase (EROD) Activity in Rat Hepatoma Cells”. With: K. Kannan, D.A. Villeneuve and A.L. Blankenship. 19th Annual meeting, November 15-19, 1998, Charlotte, North Carolina.
- (105) “The Use of a Vitelogenin ELISA to Measure the Effects of Estrogenic Substances on Laboratory Fishes”. With: P.D. Jones, S.L. Pierens, E.M. Snyder, S. Miles-Richardson, V.J. Kramer, S.A. Snyder, K.M. Nichols, S.A. Villalobos, and D.L. Villeneuve. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (106) “Accumulation of PCBs in Southern Ocean Pilot Whales (*Globicephala melas*) from New Zealand Stranding Events”. With: C. Schröder, P.J. Day, and P.D. Jones. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (107) “Analysis of Aroclor Mixtures and Polychlorinated Biphenyl (PCB) Congeners in Fish Tissue Samples from the Lower Fox River and Green Bay, Wisconsin: Comparative Results and Trends”. With: T.J. Iannuzzi, D.F. Ludwig and K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (108) “A Survey of Chemical Residues in Water, Sediment and Green Frogs (*Rana clamitans*) from Southwestern Michigan”. With: C.A. Duda, K. Kannan, D.L. Villeneuve, C.L. Summer and C. Mehne. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (109) “Determination of Estrogen-like Activities in Extracts of Effluents from Sewage-treatment Plants, River Water, Seawater and Sediments from Tokyo Bay Using MCF-7 Human Breast Cancer Cells”. With: S. Hashimoto, A. Horiuchi, N. Yamashita, T. Yoshimoto, M. Nakao, H. Omura and K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (110) “Toxicity Reference Values for the Toxic Effects of Polychlorinated Biphenyls to Aquatic Mammals”. With: K. Kannan, A.L. Blankenship and P.D. Jones. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (111) “Determination of Estrogenic Activity in the Tama River by in vitro Reporter Gene Assay”. With: S. Masunaga, T. Itazawa, T. Furuichi, J. Nakanishi, D.L. Villeneuve and K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.

- (112) "A Method for Determining Bisphenol-A-Concentrations in Blood Samples". With: K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (113) "Occurrence of Butyltin Compounds in Human Blood". With: K. Kannan and K. Senthilkumar. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (114) "Bioaccumulation of Polychlorinated Biphenyls and Organochlorine Pesticides in Ganges River Dolphins from India". With: K. Senthilkumar, K. Kannan, R.K. Sinha and S. Tanabe. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (115) "Isomer-Specific Patterns and Toxic Assessment of Polychlorinated Biphenyls in Resident and Migrant Birds and Bat Collected from South India". With: K. Senthilkumar, M. Watanabe, K. Kannan, A.N. Subramanian, and S. Tanabe. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (116) "Polychlorinated dibenzo-*p*-dioxins (PCDDs), Dibenzofurans (PCDFs), Biphenyls (PCBs) and Organochlorine Pesticides in Yellow-blotched Map Turtle from the PascagoulanRiver Basin in Mississippi, USA". With: K. Kannan, M. Ueda, J.A. Shelby, M.T. Mendonca, M. Kawano, M. Matsuda and T. Wakimoto. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (117) "Studies on the Mechanism of TCDD-Induced Deformities and Embryo Lethality in Birds". With: A. Blankenship, K. Staffova, M. Nie, K. Kemler, A. Villalobos, D. Powell and S. Bursian. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (118) "SCRAM: A Scoring and Ranking System for Persistent, Bioaccumulative, and Toxic Substances for the North American Great Lakes". With: E.M. Snyder, S. A. Snyder, S.A. Blonde, G.K. Hurlburt, C.L. Summer, R.R. Mitchell, and D.M. Bush. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (119) "Distribution of Trace Organic Contaminants in Sediment from Detroit and Rouge Rivers, Michigan". With: K. Kannan, N. Yamashita, J. Kober, A. Ostaszewski and C. Summer. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (120) "Distribution of PCBs, Organochlorine Pesticides and PAHs in ASediments from Lake Orta, Italy". With: K.S. Henry, K. Kannan, R. Baudo, D Rossi and M. Beltrami.. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (121) "Quantification of Nonylphenol Ethoxylates from Fish Tissue in Michigan, USA". With: T.L. Keith and S.A. Snyder. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.

- (122) “Bioanalytical and Instrumental Analyses of Polychlorinated Biphenyls and Organochlorine Pesticides in Blue Mussels, *Mytilus spp.*, from Korean Coastal Waters”. With: W.Y. Hu, J.S. Khim, K. Kannan, D.L. Villeneuve, S.G. Kang, K.J. Song, and C.H. Koh. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (123) “Reliable Method for Determining Concentrations of Nonylphenol and Lower Oligomer Nonylphenol Ethoxylates in Fish Tissues”. With: S.A. Snyder, T.L. Keith, C.G. Naylor, C.A. Staples and J. B. Williams. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (124) “Alkylphenols, Polycyclic Aromatic Hydrocarbons (PAHs) and Organochlorines in Sediment from Lake Shiwa, Korea: Instrumental and Bioanalytical Characterization”. With: J.S. Khim, D.L. Villeneuve, K. Kannan, K.T. Lee, S.A. Snyder and C.H. Koh. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (125) “Characterization and Distribution of Trace Organic Contaminants in Sediment from Masan Bay, Korea: 1. Instrumental Analysis”. With: J.S. Khim, D.L. Villeneuve, K. Kannan and C.H. Koh. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (126) “Characterization and Distribution of Trace organic Contaminants in Sediment from Masan Bay, Korea: 2 *In Vitro* Gene Expression Assays”. With: J.S. Khim, D.L. Villeneuve, K. Kannan and C.H. Koh. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (127) “Relative Potency Estimates from Non-Ideal *In Vitro* Bioassay Results”. With: D.L. Villeneuve, J.S. Khim and K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (128) “Response of PLHC-1 and H4IIE-luc *In Vitro* Bioassays to Complex Mixtures of PCNs, PCBs, and PAHs”. With: D.L. Villeneuve, J.S. Khim and K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (129) “Exposure of Fathead Minnow (*Pimephales promelas*) and African Clawed Frog (*Xenopus laevis*) Embryos to Bis-4-chlorophenyl-sulfone”. With: K. Kemler and S.A. Villalobos. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (130) “Effects of Bisphenol-A on the Embryonic Stages of Medaka (*Oryzias latipes*)”. With: S.D. Pastva, S.A. Villalobos and K. Kannan. To: 20th Annual Meeting, November 14-18, 1999, Philadelphia, Pennsylvania.
- (131) “Vertical Profiles of Dioxin-like and Estrogenic Activities Associated With: a Sediment Core from Tokyo Bay, Japan”. With: K. Kannan, D. Villaneuve, N. Yamashita, T. Imigawa, S. Hashimoto and A. Miyazaki. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.

- (132) "Trace Organic Contaminants in Environmental Samples from Ulsan Bay and It's Vicinity, Korea". With: J-S. Khim, K. Lee, K. Kannan, D. Villeneuve and C. Koe. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (133) "Measurement of the Effects of Environmental Contaminants on Cell Membrane Fluidity by Flow Cytometry". With: W. Hu, L. King and P.D. Jones. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (134) "In Vitro Bioassay Analysis of Dioxin-Like and Estrogenic Activities in Environmental Samples from Ulsan Bay and It's Vicinity, Korea". With: J.-S. Khim, K. Lee, K. Kannan, D.L. Villeneuve and C. Koh. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (135) "Horizontal and Vertical Distribution of Estrogenic Potencies, Nonylphenol and Bisphenol A in Sediment Samples from Tokyo Bay, Japan". With: Hourichi, A., A. Nakashima, H. Takada, T. Yoshimoto, M. Nakao, H. Ohmura, N. Yamashita and K. Kannan. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (136) "Assessment of Estrogenic Potency and Binding Affinity to Estrogen Receptors in Each Enantiomer of α -HCH and Other HCH Isomers". With: S. Hashimoto, N. Yamashita, T. Yoshimoto, M. Nakao, H. Ohmura and K. Kannan. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (137) "Aromatase Induction in Medaka (*Oryzias latipes*) After Treatment With: Atrazine". With: T. Celius, M. Heneweer. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (138) "Effects at Two Life Stages After *in ovo* Exposure of Medaka to *o,p'*-DDE". With: D.M. Papoulious, S.A. Villalobos, D.E. Tillitt and D.B. Noltie. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (139) "Effects of Waterborne Exposure to 4-nonylphenol on Plasma Sex Steroid and Vitellogenin Concentrations in Sexually Mature Male Carp". With: D.L. Villeneuve, S.A. Villalobos, T.L. Keith, E.M. Snyder and S.D. Fitzgerald. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (140) "Biological Monitoring of Planar PCDD/Fs and PCBs as Exposure Indicators of Potential Environmental Contamination". With: S. Kennedy, G. Henningsen, S. Skipper, R. Roy, M. Macrander, P.D. Jones, I. Nisbit and D. Regan. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (141) "Relative Potency of Individual Polycyclic Aromatic Hydrocarbons to Induce Dioxin-Like and Estrogenic Responses in Mammalian and Fish *in vitro* Bioassays". With: J. Kang, D.L. Villeneuve, J.S. Khim, K. Kannan and C. Koh. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (142) "Concentrations and Profiles of Polychlorinated Naphthalene Congeners in Eighteen Polychlorinated Biphenyl Preparations". With: K. Kannan, N. Yamashita, M. Imigawa

and A. Miyazaki. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.

- (143) “Polychlorinated Napthalenes and Polychlorinated Biphenyls in Fishes from Michigan Waters, Including the Great Lakes”. With: K. Kannan, N. Yamashita, T. Imigawa, J. Khim, R. Day, and C. Summer. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (144) “Polychlorinated- Napthalenes, -Dibenzo-*p*-dioxins and -Biphenyls in Herring Gulls and Cormorants from Michigan Waters”. With: K. Kannan, K. Hilscherova, T. Imigawa, N. Yamashita and L. Williams. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (145) “Polychlorinated Napthalenes (PCNs) and Polychlorinated Biphenyls (PCBs) in Marine Species Including Polar Bear and Weddell Seals from Polar Regions”. With: K. Kannan, C. Simonetta, T. Imigawa, T. Evans and S. Focardi. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (146) “Realtive Potencies of Individual Polychlorinated Napthalenes to Induce Dioxin-Like Responses in Fish and Mammalian in vitro Bioassays”. With: D.L. Villeneuve, J.-S. Khim, K. Kannan, J. Falandysz, V.A. Nikiforov and A.L. Blankenship. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (147) “Tetrachlorodibenzo-*p*-dioxin Equivalents (TCDD-EQs) in Tissue Samples from Three Species in the Denver Metropolitan Area”. With: K. Kemler, K. Kannan, P.D. Jones and A.L. Blankenship. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (148) “Aroclors, PCB Congeners, and TCDD-Equivalents: Considerations for Selecting PCB Quantification Approaches for Ecological Risk Assessment “. With: A.L. Blankenship, K. Kannan, P.D. Jones, M. Zwiernik and D. Kay. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (149) “Screening for Endocrine Modulating Chemicals in Lake Mead, Nevada using Caged Adult Common Carp (*Cyprinus carpio*)”. With: E.M. Snyder, S.A. Snyder, K.L. Kelly, T.S. Gross, P.D. Jones, S.D. Fitzgerald, D.L. Villeneuve and S.A. Villalobos. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (150) “Screening for Xenobiotics in the Waters of Lake Mead, Nevada”. With: S.A. Snyder, K.L. Kelly, E.M. Snyder, T.L. Keith, K.S. Zikmund, P.A. Grange and A.H. Sovocool. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (151) “Bioassay Directed Instrumental Analyses for the Identification of Endocrine Modulating Compounds in Water and Wastewaters”. With: S.A. Snyder, E.M. Snyder, K. Kannan and D.L. Villeneuve. To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.

- (132) “Vertical Profile of PCNs, PCDDs, PCDFs, PCBs, PAHs and Alkylphenols in a Sediment Core from Tokyo Bay, Japan”. With: K. Kannan, N. Yamashita, T. Imigawa, D. Villeneuve, S. Hashimoto and A. Miyazaki To: 21th Annual Meeting, November 12-17, 2000, Nashville, Tennessee.
- (133) “Endocrine Disruptor Mechanisms: Beyond Receptor Binding”. With: A.L. Blankenship, J.T. Sanderson, M. van den Berg and M. Nie. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland. ***Invited***
- (134) “Perfluorooctanesulfonate in the Environment”. With: K. Kannan, P.D. Jones, and K. Hansen. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland. ***Invited***
- (135) “A Global Survey of PFOS”. With: K. Kannan, P.D. Jones, and K. Hansen. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland. ***Invited***
- (136) “Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons and Alkylphenols in Sediments from the Odra River and It’s Tributaries, Poland”. With: K. Kannan, J.-S. Khim, K. Szymczyk, and J. Falandysz. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (137) “Levels of Dioxins, Furans and PCBs in Humans, Meat, Fish and Wildlife Samples from India”. With: S. Kuman, S. Masunaga, K. Kannan, O. Patmasivan, V. Shanmugasundaram and J. Nakanishi. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (138) “Organochlorines and Butyltins in Blubber and Livers of Stranded California Sea Lions, Elephant Seals and Harbor Seals from Coastal California, USA”. With: K. Kannan, N. Kajiwara, and S. Tanabe. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (139) “Occurrence of Polychlorinated Dibenzo-*p*-dioxins, Dibenzofurans and Polychlorinated Biphenyls in Wildlife of Antarctic and Arctic Polar Regions”. With: S. Kumar, K. Kannan, S. Corsolini, T. Evans, J. Nakanishi and S. Masunaga. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (140) “The Distribution of Contaminants Among Tissues in Mink (*Mustela vison*)”. With: C.L. Tansey, W.W. Bowerman, O.E. Baker, K. Kannan, S. Masunaga and S. Kumar. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (141) “Polychlorinated-Napthalenes, -Biphenyls, -Dibenzo-*p*-dioxins and -Dibenzofurans in Bluefin Tuna, Swordfish, Cormorants and Barn Swallows from Italy”. With: K. Kannan, S. Corsolini, T. Imigawa and S. Focardi. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (142) “Conduct of a Phase I Toxicity Identification Evaluation (TIE) for Pore Water Extracted from Sediments Collected from the Lower Passaic River, New Jersey”.

With: M.T. BenKinney, M.G. Eversen, D. Kay, T.J. Iannuzzi and C. Firstenberg. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.

- (143) “Effects of Environmentally Relevant Concentrations of TCDD on Rainbow Trout Reproduction”. With: P.D. Jones, K. Kannan, J.L. Newsted, D.E. Tillitt, and L.L. Williams. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (144) “Sources and Distribution of Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans in Masan and Changwon Cities, Korea”. With: S.H. Im, K.D. Strause, K. Kannan, M. Matsuda, T. Wakimoto. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (145) “Mink Exposure to PCBs in the Kalamazoo River, MI Superfund Site”. With: S.D. Pastva, C.S. Park and M.J. Zwiernik. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (146) “Nonyl Phenol and Nonylphenol Ethoxylates in Fish, Sediment and Water from the Kalamazoo River, Michigan”. With: K. Kannan, T.L. Keith, C.G. Naylor, C.A. Staples and S. Snyder. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (147) “*In vitro* Assessment of Potential Mechanism-Specific Effects of Polybrominated Diphenyl Ethers”. With: D.L. Villeneuve and K. Kannan. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (148) “A Method for the Determination of Tetrabromobisphenol A in Sediment”. With: K. Kannan, J.-S. Khim and D.L. Villeneuve. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (149) “Characterization of Dioxin-like and Estrogenic Activities in Sediment Samples from Onsan Bay, Korea Using *In Vitro* Bioassay”. With: J.-S. Khim, K. Lee, D.L. Villeneuve, K. Kannan and C. Koh. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (150) “A Country-Wide Risk Assessment of Organochlorines in New Zealand”. With: P.D. Jones, S.J. Buckland, H.K. Ellis, and S.E. Scobie. To: 22th Annual Meeting, November 11-15, 2001, Baltimore, Maryland.
- (151) “Response of Developing Frogs (*Xenopus laevis*) to Atrazine: Assessment of Gonadal and Larangeal Morphology. With: J. A. Carr, A. Gentles, E.E. Smith, W.L. Goldman, R. Kendall, T. S. Gross, K. Solomon and G. van der Kraak. ”To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (152) “Assessment of Risks of PCBs to Mink (*Mustela vison*) at the Kalamazoo River, Michigan”. With: S. D. Pastva, A. L. Blankenship, P. W. Bradley, P. D. Jones, K. Kannan, A. Neigh, C. S. Park, K. D. Strause and M. J. Zwiernik. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.

- (153) “Accumulation of PCBs and an Evaluation of Ecological Risk for Shrews and Other Small Mammals at the Kalamazoo River Superfund Site, Michigan”. With: A. L. Blankenship, M. J. Ziernik, C. J. Park, R. Holem, G. Klemolin, P. Bradley, A. Neigh, D. Kay and K. Kannan. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (154) “Bald Eagle Exposure to PCBs at the Kalamazoo River Superfund Site”. With: K. D. Strause, M. J. Ziernik, C. S. Park, A. L. Blankenship, P. W. Bradley, K. Kannan, D. Kay and R. Holem. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (155) “Great Horned Owl Exposure to Chlorinated Organics at the Kalamazoo River Superfund Site”. With: K. D. Strause, C. S. Park, P. Mosley, S. D. Pastva, A. L. Blankenship, P. W. Bradley, K. Kannan and A. Neigh. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (156) “Passerine Productivity and PCB Exposure at the Kalamazoo River Superfund Site, Michigan.” With: A. Neigh, M. McCarroll, M. J. Ziernik, C. S. Park, T. Moss, R. Adams, R. Holem and J. L. Newsted To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (157) “Use of Bald Eagle Data for Environmental Management”. With: W. W. Bowerman, D. A. Best and L. L. Williams. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (158) “Exposure Characterization and Responses of Field Exposures of *Xenopus laevis* to Atrazine and Related Triazines in South African Corn Growing Regions.” With: L. H. Du Preez, K. R. Solomon, A. M. Jooste, P. J. Jansen van Rensburg, E. E. Smith, J. A. Carr, R. J. Kendall, T. S. Gross and G. van der Kraak. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (159) “Atrazine Exposure and Reproductive System Abnormalities in Field Collected *Bufo marinus*”. With: K. A. McCoy, M. S. Sepulveda and T. S. Gross. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (160) “Determination of Potential Effects of 20 Day Exposure of Atrazine on Endocrine Function of Largemouth Bass (*Micropterus salmoides*)”. With: T. S. Gross, C. M. Wieser, D. S. Ruessner, J. A. Carr, A. J. Hosmer, R. J. Kendall, E. E. Smith, K. Solomon, G. Van Der Kraak. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (161) “Aromatase Activity in Tissues of Adult *Xenopus laevis* Exposed to Atrazine”. With: D. L. Villeneuve, K. K. Coady, M. M. Murphy, M. van der Zee, M. Hecker, P. D. Jones, J. J. Carr, E. E. Smith and G. van der Kraak. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (162) “Effects of Atrazine on Developing *Xenopus laevis*: Potential Endocrine Disruption”. With: K. K. Coady, D. L. Villeneuve, M. M. Murphy, M. van der Zee, M. Hecker, P.

- D. Jones, J. A. Carr, E. E. Smith, G. van der Kraak. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (163) “Effects of Atrazine on Developing *Rana clamitans*”. With: K. K. Coady, D. L. Villeneuve, M. M. Murphy, M. van der Zee, M. Hecker, P. D. Jones, J. A. Carr, E. E. Smith and G. van der Kraak. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (164) “Mitogen-Induced Proliferation of Human Lymphocytes Following Exposure to Pharmaceuticals, Fluorinated Organic Compounds, Alkylphenols and Organotins”. With: T. Natsu, H. Shoji, H. Nakata and K. Kannan. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (165) “Distributions and Characteristics of Polychlorinated Dibenzo-*p*-dioxins and Dibenzofurans in Fish and Shellfish from Korea”. With: S-H Im, K. Kannan, M Matsuda and T. Wakimoto. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (166) “Screening for Androgen and Glucuronide Receptor (ant)agonists using MDA-kb2 Cells”. With: M. Murphy, D. L. Villeneuve, W. H. Lam and P. D. Jones. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (167) “Assessing Risks to Resident Great Horned Owls in the Kalamazoo River Floodplain: The Exposure Assessment”. With: K. D. Strause, M. Zwiernik, P. Mosley, D. L. Villeneuve and A. L. Blankenship. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (168) “Assessing Risks to Resident Bald Eagles in the Kalamazoo River Flood Plain: The Exposure Assessment”. With: K. D. Strause, M. J. Zwiernik, A. L. Blankenship, D. L. Villeneuve, C. S. Park, P. W. Bradley, S. T. Pastva, M. A. McCarroll, A. Neigh and P. P. Mosley. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (169) “Dietary Exposures and Body Burdens in Passerines at the Kalamazoo River Superfund Site, Michigan”. With: A. M. Neigh, M.A. McCarroll, M. J. Zwiernik, C. S. Park, P. W. Bradley, D. H Kim, R. Adams, K. D. Strause and, S. T Pastva. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (170) “Principal Components Analysis of Dioxins from Rocky Mountain Arsenal and Denver, Colorado”. With: P. D. Jones, J. L. Newsted, J. Slocum, G. Henningson, L. Williams and C. Bicher. To: 23rd Annual Meeting, November 16-20, 2002, Salt Lake City, Utah.
- (171) “Evaluation of PCB Congener Patterns and Concentrations in Aquatic and Terrestrial Invertebrates from the Kalamazoo River Superfund Site”. With: D.P. Kay, A.M. Neigh, J.L. Newsted, M.J. Zwiernik and P.W. Bradley. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.

- (172) "Plasma Testosterone and Estradiol Concentrations, Aromatase Activities and Gonadal Histology of Ranids in Michigan". With: M.B. Murphy, K.K. Coady, M. Hecker, P.D. Jones, J.P. Carr, J.A. Smith, G. Van der Kraak, K.R. Solomon and R. Kendall. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (173) "An Evaluation of Gonadal Anomalies and Agricultural Exposures for the Cane Toad (*Bufo marinus*) in South Florida". With: T.S. Gross, J.T. Smith, J.J. Wiebe, M.S. Sepulveda, J.A. Carr, L. Du Preez, R.J. Kendall, K.R. Solomon, E.E. Smith and G. Van der Kraak. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (174) "Identification and Characterization of Genes Responsive to Perfluorinated Sulfonic Acid Exposure using Gene Expression Profiling". With: W.-Y. Hu, P.D. Jones, J.L. Newsted, and C. Lau. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (175) "Evaluation of Congener-Specific Concentrations of Polychlorinated Biphenyls (PCBs) and Patterns in an Aquatic-Based Food Web at the Kalamazoo River Superfund Site, Michigan". With: A.L. Blankenship, M. Zwiernik, C. Park, R. Holem, P.W. Bradley, A. Neigh and P. Kay. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (176) "An Examination of Bald Eagles PCB Exposure on the Kalamazoo River, MI based on site-specific and regional-specific exposure profiles". With: M.J. Zwiernik, K.D. Strause, P.W. Bradley, P.D. Jones, D.P. Kay, and C.S. Park. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (177) "Wild Mink Exposed to PCBs in the Environment Exhibit Mandibular and Maxillary Hyperproliferation of Squamous Epithelium". With: K.J. Becket, S.D. Pastva, A.L. Blankenship, M.J. Zwiernik and S.J. Bursian. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (178) "Megalopectera as a Representative Benthic Invertebrate for Worst Case Scenario Screening Level Exposure Estimates". With: C.S. Park, M.J. Zwiernik, D.P. Kay and P.W. Bradley. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (179) "Binding of Perfluorinated Chemicals to Serum Proteins". With: P.D. Jones, W.Y. Hu, W. De Coen and J.L. Newsted. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (180) "Gonadal Responses of *Xenopus laevis* Larvae Exposed to Atrazine in Microcosms." With: L.H. Du Preez, A.M. Jooste, G.J. Everson and K.R. Solomon. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (181) "Steriology: Assessment of Gonadal Function in *Xenopus laevis* From Corn-Growing Areas of South Africa". With: E.E. Smith, L. Du Preez, K.R. Solomon, A.B. Gentles, J.A. Carr and R.J. Kendall. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.

- (182) "Effects of Atrazine on Adult *Xenopus laevis* in the Wild and the Laboratory: No Evidence for an Aromatase Based Mechanism". With: M. Hecker, D.L. Villeneuve, L. Du Preez, K.K. Coady, M.B. Murphy, P.D. Jones and K.R. Solomon. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (183) "Principal Component Analysis of PCB Congener Profiles in Passerines and Their Diet". With: A. Neigh, D.P. Kay, M.J. Zwiernik, A.L. Blankenship, M. MacCarroll, C. Rupert, P.W. Bradley and C. Park. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (184) "PCB Congener Pattern Differences and Biomagnification Factors in Mink (*Mustela vison*) and Select Prey Items Collected from the Kalamazoo River, Michigan". With: S.D. Pastva, A.L. Blankenship, P.W. Bradley, P.D. Jones, D.P. Kay, A.M. Neigh, C.S. Park, K.D. Strause, and M.J. Zwiernik. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (185) "Bioanalytical Techniques for Screening for Total Toxic Potential of Complex Mixtures". To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (186) "Plasma to Egg Conversion Factor for Nondestructive Contaminant Exposure Assessment/Long-term Monitoring of Raptor Populations". With: K.D. Strause, M.J. Zwiernik, D.P. Kay, A.L. Blankenship, W.P. Bradley, P.P. Mosley, C.S. Park and S.K. Im. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (187) "Instrumental and Bioanalytical Characterization of Trace Organic Contaminants in Sediments from the Omuta River, Japan". With: H. Nakata, H. Shoji, K. Kannan and S. Battula. To: 24th Annual Meeting, November 9-13, 2003, Austin, Texas.
- (188) "Quantitative Assessment of Chemical Effects on Steroidogenic Enzymes in H295R Cells Line Using Q-RT-PCR". With: T. Gracia, K. Hilscherova, X. Zhang, P. D. Jones, J. T. Sanderson and J. L. Newsted. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (189) "A Cell Culture Based Assay for the Measurement of Xenobiotic Effects on Steroid Production". With: P. D. Jones, M. Hecker, T. Gracia, X. Zhang, J. T. Sanderson and J. L. Newsted. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (190) "Reduction in Estrogenic Activity by Membrane-Based and Conventional Waste Water Treatment". With: A. Coors, P. D. Jones and H. T. Ratte. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (191) "Effects of Estradiol and Atrazine on Testicular Ultrastructure in *Xenopus laevis*". With: M. Hecker, W. J. Kim, J.-W. Park, D. L. Villeneuve, M. B. Murphy, P. D. Jones, K. R. Solomon, G. van der Kraak and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (192) "Effects of Atrazine Exposure on Aromatase Activity and CYP19 Gene Expression in Male Adult *Xenopus laevis*". With: J.-W. Park, M. Hecker, M. R. Murphy, P. D.

Jones, K. R. Solomon, G. van der Kraak, and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.

- (193) “Gross Morphology and Gonadal Histology of Ranid Frog Species Collected from Atrazine-exposed Sites in Michigan”. With: A. R. T. Tompsett, M. B. Murphy, K. K. Coady, M. Hecker, L. DuPreez, P. D. Jones, E.E. Smith, G. van der Kraak, K. R. Solomon and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (194) “Estradiol and Testosterone Levels in Juvenile and Adult Frogs from Atrazine-exposed Sites in Michigan”. With: A. R. Tompsett, M. B. Murphy, K. K. Coady, M. Hecker, P. D. Jones, E. E. Smith, G. van der Kraak, K. R. Solomon and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (195) “Mixed Function Oxygenase Enzymes in Juvenile and Adult Frogs from Atrazine-Exposed Sites in Michigan”. With: M. B. Murphy, A. R. Tompsett, K.K. Coady, M. Hecker, P. D. Jones, J. A. Carr, E. E. Smith, G. van der Kraak and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (196) “Effects of Atrazine and Estradiol on Plasma Sex Steroid Concentrations in Male Adult *Xenopus laevis*”. With: M. Hecker, M. B. Murphy, P. D. Jones, K. R. Solomon, G. van der Kraak and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (197) “Seasonal Changes and Natural Variability of Plasma Sex Steroid Concentrations in *Xenopus laevis* from South Africa”. With: L. Du Preez, M. B. Murphy, P. D. Jones, K. S. Solomon, G. van der Kraak, E. E. Smith, R. Kendall and M. Hecker. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (198) “Effects of Atrazine on Mixed Function Oxygenases in *Xenopus laevis*”. With: J.-W. Park, M. Hecker, M. B. Murphy, P. D. Jones, K. R. Solomon, G. van der Kraak and R. J. Kendall. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (199) “Induction of EROD by TCDD and Selected PCBs in Primary Hepatocytes of Brown House Snakes (*Lamprophis fuliginosus*)”. With: P. D. Jones, M. Hecker, M. B. Murphy, and W. Hopkins. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (200) “Occurrence of Estrogenic Compounds at Swinery Waste Treatment Plant”. With: T. Furuichi, K. Suzuki, K. Kannan and S. Masunaga. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (201) “Perfluorinated Compounds in Aquatic Organisms at Various Trophic Levels in a Great Lakes Food Chain”. With: K. Kannan, L. Tao, S. Pastva and D. Jude. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.

- (202) “Characterization of Dioxin-like and Estrogenic Activities in River Sediments from Masan and Lake Shihwa, Korea, using In Vitro Bioassay”. With: H. Yoo and J. S. Khim. To: Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (203) “The Acute and Chronic Effects of Perfluorooctane Sulfonate to Northern Bobwhites”. With: J. L. Newsted, S. Beach and S. Gallagher. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (204) “The Acute and Chronic Effects of Perfluorooctane Sulfonate to Mallards”. With: J. L. Newsted, S. Beach and S. Gallagher. To: 25th Annual Meeting, November 14-18, 2004, Portland, Oregon.
- (205) “Effects of Pharmaceuticals on Gene Expression and Hormone Production in H295R Cell Line Using Q-RT-PCR/ELISA”. With: T. Gracia, P.D. Jones, K. Hilscherova, K. Higley, and J.L. Newsted. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (206) “Mink and PCDD/DFs in the Tittabawassee River”. With: M. Zwiernik, J. Moore, D. Tazelaar, D. P. Kay, D. Hamman and A. Blankenship. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (207) “Monitoring of Exposure to and Potential Effects of Contaminants in the Environment”. With: M.H. Depledge, P.K.S. Lam and R.S.S. Wu. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD. ***Invited, Keynote.***
- (208) “A Comparison of H295R, R2C and JEG-3 Cells as Screening Tools for Effects on Steroidogenesis”. With: X. Zhang, R.M.K. Yu, P.D Jones, J.L. Newsted, T. Gracia, M. Hecker and R.S.S Wu. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (209) “Avian Toxicity Reference Values (TRVs) for Perfluorooctane Sulfonate (PFOS)”. With: J.L Newsted, P.D. Jones and K. Coady. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (210) “PCDDs and PCDFs in Small Mammals Foraging in the Tittabawassee River Floodplain, Michigan”. With: S.J. Coefield, M.J. Zwiernik, R.M. Seston, T.B. Fredricks, J.N. Moore, D. Tazelaar, D.L. Kay, P.D. Jones and P. Bradley. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (211) “Separation and Characterization pf Structural Isomers of Perfluorinated Compounds”. With: H. Yoo, P.D. Jones, P.W. Bradley, M. Gužviae, B.L. Upham, J.E. Trosko, and J.L. Newsted. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (212) “Site-specific Dietary Exposure Assessment of Several Passerine Bird Species to PCDDs and PCDFs”. With: T.B. Fredricks, M.J. Zwiernik, S.J. Coefield, R.M. Seston, J.N. Moore, D.L. Tazelaar, T.C. White and D.P. Kay. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.

- (213) “PCDDs and PCDFs in Aquatic and Terrestrial Food Webs of the Tittabawassee River, Michigan”. With: D.P. Kay, A.L. Blankenship, M.J. Zwiernik, P.D. Jones and J.L. Newsted. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (214) “Tissue Residue Concentrations of PCDDs and PCDFs in Megaloptera: A comparison to Other Benthic Invertebrate Orders”. With: J.N. Moore, C.S. Park, M.J. Zwiernik, D.P. Kay, D.L. Tazelaar, and D.W. Hamman. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (215) “Assessment of Belted Kingfisher (*Ceryle alcyon*) Dietary Exposure to PCDDs and PCDFs in the Tittabawassee River, MI”. With: R.M. Seston, M.J. Zwiernik, J.N. Moore, D.L. Tazelaar, H.L. Wong, P.W. Bradley, T.B. Fredricks, J.J. Coefield and P.D. Jones. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (216) “A Comparison of PCDD and PCDF Bioavailability Among Terrestrial Invertebrates from the Tittabawassee River Floodplain”. With: D.L. Tazelaar, D.P. Kay, M.J. Zwiernik, J.N. Moore, D.W. Hamman, A.L. Blankenship, T.B. Fredricks, R.M. Seston and S.J. Coefield. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (217) “Spatial and Temporal Distributions of Polycyclic Aromatic Hydrocarbons in Sediments from Michigan Inland Lakes”. With: K. Kannan, B. Johnson, S.S. Yohn and D.T. Long. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (218) “Application of *In situ* Hybridization to Detect CYP19-A1 and –A2 Gene Expression Patterns Along the HPG-Axis at Different Organizational Levels using Japanese Medaka (*Oryzias latipes*)”. With: J-W. Park, A. Tompsett, M. Hecker, P.D. Jones and J.L. Newsted. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (219) “Distribution and Sources of Trace Organic Contaminants in Marine Sediment”. With: J.-S. Khim, D. Villeneuve, K. Kannan and C. Koh. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (220) “Dioxin-like and Estrogenic Compounds and Activities Associated With: Marine Sediment from Yeongil Bay, Korea”. With: J.-S. Khim, D.L. Villeneuve, K. Kannan and C. Koh. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (221) “Characterization and Distribution of Dioxin-like and Estrogenic Compounds in Sediment from Korean Coasts”. With: J.-S. Khom, D.L. Villeneuve, K. Kannan B. Johnson and C. Koh. To: 26th Annual Meeting, November 13-17, 2005, Baltimore MD.
- (222) “Comparison of the Ability of the Fathead Minnow Ovarian Steroidogenesis Assay and the H295R Cell-Based Steroidogenesis Assay to Identify Endocrine Active Chemicals.” With: M. Hecker, G.T. Ankley, E.A. Makynen, L.S. Blake, K.J. Greene, E.B. Higley, J.L. Newsted, and D.L. Villeneuve. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.

- (223) “Emission, Levels, Distribution, and Fate of POPs in South Korea – Review”. With: S. Kim, J. Khim, K. Lee, K. Kannan, C. Koh and D. Lee. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (224) “Quantification of PFOS, PFBS, PFOA, PFNA, PFDA in Human Plasma, Serum, and Whole Blood”. With: K. Kannan, W.K. Reagen, and M.E. Ellefson.. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (225) “Elucidating Changes in Aromatase (CYP19) Gene Expression in Japanese Medaka (*Oryzias latipes*) Exposed to Fadrozole: Q RT-PCR and its comparison With: ISH methods”. With: J. Park, A. Tompsett, X. Zhang, M. Hecker, P.D. Jones, J.L. Newsted. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (226) “A Critical Review and Selection of Toxicity Reference Values (TRVs) for Mink (*Mustela vison*) Exposed to Polychlorinated Dibenzofurans (PCDFs).” With: D.P. Kay, R.R. Holey, A.L. Blankenship, and M.J. Zwiernik. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (227) “Environmental Concentrations, Toxicology, and Risk Assessment of Perfluorinated Compounds in China.” With: M. So, A. Gulkowska, S.Q. Jiang, S. Taniyasu, L.W. Yeung, N. Yamashita, K. Guruge and P.K. Lam. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (228) “Kinetics of Two Polychlorinated Dibenzofurans (PCDFs) in Mink (*Mustela vison*), A Laboratory Feeding Study.” J.N. Moore, M.J. Zwiernik, S.J. Bursian, D. Hamman, and P.W. Bradley. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (229) “Preliminary PCDF and PCDD Tissue-based Assessment of Belted Kingfisher (*Ceryle alcyon*) Residing in the Tittabawassee River Floodplain, MI, USA.” With: R.M. Seston, M.J. Zwiernik, D.L. Tazelaar, J.N. Moore, T.B. Fredricks, S.J. Coefield, P.W. Bradley, and D.P. Kay. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (230) “Predicted Average Daily Intakes of PCDFs and PCDDs in American Robins (*Turdus migratorius*) in the Tittabawassee River floodplain.” With: D.L. Tazelaar, M.J. Zwiernik, D.P. Kay, R.M. Seston, J.N. Moore, T.B. Fredricks, S.J. Coefield, L.E. Williams, and P.W. Bradley. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (231) “Passerine Tissue Concentrations Of PCDF and PCDD Congeners as Part of a Site-Specific Risk Assessment on the Tittabawassee River.” With: T.B. Fredricks, L.E. Williams, M.J. Zwiernik, S.J. Coefield, R.M. Seston, J.N. Moore, D.L. Tazelaar, S.C. Plautz, and D.P. Kay. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (232) “PCDF and PCDD Congener Concentrations in Cavity Nesting Duck Eggs.” With: T.B. Fredricks, M.J. Kramer, M.J. Zwiernik, R.M. Seston, S.J. Coefield, D.L. Tazelaar,

J.N. Moore, D.W. Hamman, and D.P. Kay. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.

- (233) “Data Analysis Approaches for Interpreting Complex Toxicogenomic Data Sets.” With: P.D. Jones, X. Zhang, J.L. Newsted, T. Gracia, J.T. Sanderson, and K. Hilscherova. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (234) “A Mixture Model for Chemical Clustering — An Application Using Data from H295R Cell Assays.” With: X. Zhang, P.D. Jones, Y. Zuo, J.L. Newsted, and M. Hecker. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (235) “Reproductive Toxicity of the Methoxytriazine Herbicide Prometon to the Fathead Minnow.” With: E. Durhan, M.B. Murphy, M.D. Kahl, B.C. Butterworth, K.M. Jensen, E.A. Makynen, L.R. Curtis, D.L. Villeneuve, and G.T. Ankley. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (236) “Toxicological Perspectives of Perfluorooctane Sulfonate (PFOS) to Aquatic Organisms.” With: J.L. Newsted, P.D. Jones, and S.A. Beach. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (237) “Human Exposure to Dioxin-like Compounds in Fish and Shellfish Consumed in South Korea.” With: K. Lee, J. Lee, Lee, K. Park, S. Kim, W. Shim, and S. Im, U.2, Giesy, J.P.3,4 and Oh, J.2. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (238) “Human Adrenocarcinoma (H295R) Cells for Rapid In vitro Determination of Effects on Steroidogenesis: Sex Steroid Concentrations and Aromatase Activity.” With: E.B. Higley, M. Hecker, M. J.L. Newsted, M.B. Murphy, P.D. Jones, and R. Wu,. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (239) “Multiplex in situ Hybridization to Detect CYP19a and b Gene Expression Patterns Along the HPG-axis of the Japanese Medaka (*Oryzias latipes*).” With: J. Park, A.R. Tompsett, X. Zhang, M. Hecker, P.D Jones, and J.L. Newsted. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (240) “Testicular oocytes in *Xenopus laevis*: A Natural Phenomenon.” With: L.H. Du Preez, N. Kunene, K. Solomon, and A. Hosmer To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (241) “Great Horned Owl Dietary Exposure to PCDF/Ds in the Tittabawassee River Floodplain Midland, MI.” With: S.J. Coefield, M.J. Zwiernik, T.B. Fredricks, R.M. Seston, D.L. Tazelaar, J.N. Moore, D.P. Kay, D.P. M.W. Nadeau, and P.W. Bradley. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (242) “Methodology Employing Belted Kingfisher (*Ceryle alcyon*) as a Receptor in an Ecological Risk Assessment of the Tittabawassee River floodplain, MI, USA.” With: R.M. Seston, M.J. Zwiernik, D.L. Tazelaar, J.N. Moore, T.B. Fredricks, S.J. Coefield,

and M. Hecker. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.

- (243) “Elucidating Changes in Aromatase (CYP19) Gene Expression in Japanese Medaka (*Oryzias latipes*) Exposed to Fadrozole: In Situ Hybridization in a Whole Animal Model.” With: A.R. Tompsett, J.W. Park, M. Hecker, P.D. Jones, J.L. Newsted, D. Au, and Chen. To: 27th Annual Meeting, November 5-9, 2006, Montreal, Quebec, Canada.
- (244) “Determination of Relative Response factors and Matrix Effects on Quantification of Perfluorinated Compounds.” With: J. Naile, J.-S. Khim, and P.D. Jones. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (245) “Differential Effects of Environmental Chemicals and Selected Pharmaceuticals on Aromatase Activity”. With: E.B. Higley, M. Hecker and J.L. Newsted. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (246) “Clade-Specific Occurrence of Testicular Oocytes in *Xenopus laevis* from South Africa.”. With: G. Van Der Kraak, L.H. du Preez, N. Kunene, R.H. Hanner, A.J. Hosmer and K.R. Solomon. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (247) “Atrazine and Amphibians: Reproductive Effects and Risks from Agricultural Uses”. With: K.R. Solomon, J. Carr, L. du Preez, R. Kendall, E. Smith and G. Van Der Kraak. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (248) “Persistent Organic Pollutants in Korean Coastal Sediments: Distribution, Sources and Potential for Biological Effects”. With: J.-S. Khim and C. Koh. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (249) “Effects of Polychlorinated Dibenzofurans (PCDFs) on P450 Enzymes, Jaw Histology and Tissue Morphology of Mink (*Mustela vison*)”. With: J. Moore, M. Hecker, Z.J. Zwiernik, S.J. Bursian, S.D. Fitzgerald, J.L. Newsted, J.-S. Khim and E.B. Higley. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (250) “Biomonitoring: Scat as an Indicator of Body Burden in Mink (*Mustela vison*).” With: M.S. Shotwell, M.J. Zwiernik, J.-S. Khim, J.N. Moore, D.P. Kay, L.L. Williams and S.J. Bursian. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (251) “Preliminary PCDF and PCDD Tissue-based Assessment of Great Blue Heron (*Ardea herodias*) Residing in the Tittabawassee River Floodplain, MI, USA”. With: R.M. Seston, M.J. Zwiernik, T.B. Fredricks, S.J. Coefield, D.L. Tazelaar, M.W. Nadeau, P.W. Bradley, M.S. Shotwell and D.P. Kay. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (252) “The Consequences of Structure on Ecotoxicological Profiles of Perfluoroalkyl Acids (PFAs): A Review”. With: J.L. Newsted. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.

- (253) “The OECD Validation Program of the H295R Steroidogenesis Assay for the Identification of Inhibitors and Inducers of Hormone Production”. With: M. Hecker, H. Hollert, R. Cooper, Y. Akahori, M. Murphy, C. Nellemann, E.B. Higley and G. Timm. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (254) “Assessing Sediments and Fish Health using a Weight of Evidence Approach-In search of the Causes of Fish Decline in the Danube River”. With: H. Hollert, S. Keiter, M. Böttcher, S. Grund, N. Seitz, M. Hecker, K. Wurm, E. Higley, B. Van Bavel and M. Engwall. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (255) “Testing of Five Model Endocrine Disrupting Chemicals using Medaka Hypothalamic-pituitary-Gonadal (BHG) Axis Model and RT-PCR Array Methods”. With: X. Zhang, A. Tompsett, J. Park, M. Hecker, J.L. Newsted and P.D. Jones. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (256) “Gene Expression and Histological Structure as Biomarkers of Chemical Exposure in Japanese Medaka.” With: AR. Tompsett, J. Park, X. Zhang, M. Hecker, P.D. Jones, J.L. Newsted and D. Au. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (257) “Development of Fluorescence in situ Hybridization (ISH) Techniques to Detect and Quantify Expression Profiles of Genes Along the HPG-Axis in Japanese Medaka”. With: AR. Tompsett, J. Park, X. Zhang, M. Hecker, P.D. Jones, J.L. Newsted and D. Au. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (258) “Perfluoroalkyl Acids in the Egg yolk of Birds from Lakes Shihwa, Korea”. With: H. Yoo, K. Kannan, S. Kim, K. Lee, J. Lee, J. Lee, J.L. Newsted and J.-S. Khim. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (259) “Kinetic Evaluation of Exposure to Ecologically Relevant Concentrations of 2,3,7,8-TCDF and 2,3,4,7,8-PCDF to Mink”. With: M.J. Zwiernik, J.N. Moore, S.J. Bursian, S.D. Fitzgerald, A.C. Napolitano, D.P. Kay, J.L. Newsted, K.J. Beckett and L.L. Aylward. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (260) “Reproductive Success of Three Passerine Species as Part of a Site-Specific Risk Assessment on the Tittabawassee River”. With: T.B. Fredricks, M.J. Zwiernik, R.M. Seston, S.J. Ceofield, C.N. Stieler, S.C. Plautz, D.L. Tazelaar, M.S. Shotwell and D.P. Kay. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (261) “PCDF and PCDD Accumulation Rates for Three Passerine Species as Part of a Site-Specific Risk Assessment on the Tittabawassee River”. With: T.B. Fredricks, M.J. Zwiernik, S.J. Coefield, R.M. Seston, S.C. Plautz, C.N. Steiler, D.L. Tazelaar, M.S. Shotwell and D.P. Kay. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (262) “PCDF and PCDD Concentrations in Great Horned Owls (*Bubo virginianus*) Inhabiting the Tittabawassee River Floodplain in Central Michigan”. With: S.J.

Coefield, M.J. Zwiernik, T.B. Fredricks, R.M. Seston, D.L. Tazelaar, M.W. Nadeau, S.C. Plautz, D.P. Kay and M.S. Shotwell. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.

- (263) “Productivity of American Robins (*Turdus migratorius*) in the Tittabawassee River Floodplain”. With: D.L. Tazelaar, M.J. Zwiernik, R.M. Seston, D.P. Kay, S.A. Roarck, S.C. Plautz, T.B. Fredricks, M.S. Shotwell and S.J. Coefield. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WI.
- (264) “Assessing Sediments and Fish Health Using a Weight-Of-Evidence Approach and Effect-Directed Analyses – In Search for the Causes of Fish Decline in the Danube River.” With: H. Hollert, E. Higley, M. Hecker, M. Engwall, G. Reifferscheid, H. Hollert, S. Grund, T. Braunbeck, S. Keiter, U. Luebcke-Von Varel, T. Schulze, and W. Brack. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (265) “Characterization of Mixed Function Monooxygenase Genes *CYP1A1* and *CYP1A2* of Mink (*Mustela vison*) to Facilitate Study of Dioxin-like Compounds.” With: X. Zhang, M. Hecker, S. Wiseman, P.D. Jones, J.N. Moore, S.J. Bursian, M.J. Zwiernik, M. Hecker, and J. Newsted. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (266) “Aquatic Toxicology of Perfluorinated Chemicals.” With: J. Naile, J. Khim, P.D. Jones and J.L. Newsted. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (267) “Sensitivity of Chicken and Japanese Quail Embryo Hepatocyte Cultures to Cytochrome *P4501A* Induction Upon Exposure to TCDD, PeCDF, and TCDF.” With: J.C. Herve, S.W. Kennedy, S.P. Jones, L.J. Mundy, S.J. Bursian, M.J. Zwiernik and P.D. Jones. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (268) “Molecular Mechanisms Underlying Differences in Sensitivity of Avian Species to Embryo-toxic Effects of Chlorinated Dioxins and Furans-Recent Advances in the Characterization of Aryl Hydrocarbon receptor 1 (*AHR1*) in Birds.” With: R. Farmahin, S.W. Kennedy, D. Crump, S.P. Jones, L. Mundy, S.J. Bursian, M.J. Zwiernik, M.E. Hahn, and J.A. Head, To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (269) “Application of a Medaka HPG Axis Real Time PCR Array Method to Environmental Chemical Screening.” With: X. Zhang, M. Hecker, A. Tompsett, and P.D. Jones. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (270) “Species-specific Accumulation of Polychlorinated Dibenzo-*p*-dioxins (PCDDs), Dibenzofurans (PCDFs), and Coplanar Polychlorinated Diphenyls (PCBs) in Fishes from the Tittabawassee and Saginaw Rivers (Michigan, USA).” With: Y. Wan, P.D. Jones, J. Khim, R.R. Holum, D.P. Kay, S.A. Roark, and J.L. Newsted. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (271) Assessment of Upper Danube River Sediments Toxicity Using New Fractionation Techniques and the *Danio rerio* Embryo Assay and the Ames Fluctuation Assay.” With: E.B. Higley, T. Seiler, J. Wolz, N. Best, H. Hollert, S. Grund, M. Hecker, U.

Lubcke-von Varel, W. Brack, and T. Schulz. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.

- (272) “Perfluorinated Compounds in Environmental Samples Collected from Inner-Mongolia, China.” With: J. Naile, J. Khim, P.D. Jones, T. Wang, W. Jiao, C. Chen, Y. Lu, and K. Kannan. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (273) “Perfluorinated Compounds in Sediment and Water from Bohai Bay and its Vicinity, China.” With: J. Khim, J.E. Naile, Y. Wan, P.D. Jones T. Wang, W. Jiao, J. Geng, C. Chen, and Y. Lu. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (274) “Perfluorooctane Sulfonate and other Fluorochemicals in Soils from Bohai Bay, China.” With: T. Wang, W. Jiao, C. Chen, Y. Lu, L. Wei, W. Guang, L. Jing, J. Khim, J.E. Naile, Y. Wan, and P.D. Jones. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (275) “Effects of Selected Metals on Early White Sturgeon (*Acipenser transmontanus*) Life-Stages.” With: D. Vardy, A. Tompsett, M. Hecker, J. Duquette, K. Liber, D. Janz, and M. Adzic. To: 29th annual meeting, November 16-21, 2008,, Tampa, FL.
- (276) “White Sturgeon Growth, Morphology, and Survival after Exposure to Columbia River Surface Water at two Sites in British Columbia, Canada.” With: A.R. Tompsett, D. Vardy, M. Hecker, S. Wiseman, X. Zhang, K. Liber, and M. Adzic. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (277) “Effects of Polychlorinated Dibenzofurans on Mink.” With: D.P. Kay, M. Shotwell, J. Newsted, M. Zwiernik, S. Bursian, J. Moore, K. Beckett, L. Aylward, and R. Budinsky. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (278) “A Comparison of Methods for Estimating Wildlife Dietary Exposure Concentration using Measured Concentrations of Dietary Items.” With: S.A. Roark, D.P. Kay, S.A. Newsted, and M.J. Zwiernik. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (279) “An Evaluation of Dibenzo-*p*-dioxins (PCDDs), Dibenzofurans (PCDFs), and Dioxin-like Polychlorinated Biphenyls (PCBs) in Tissues of Wild Game from the Floodplains of the Tittabawassee and Saginaw Rivers (Michigan, USA).” With: R. Holem, J.J. Matousek, P.W. Bradley, J.L. Newsted, D.P. Kay, A.L. Blankenship, S.R. Roark, M.S. Shotwell and A.L. Blankenship. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (280) “An Evaluation of Dibenzo-*p*-dioxins (PCDDs), Dibenzofurans (PCDFs), and Dioxin-like Polychlorinated Biphenyls (PCBs) in Tissues of Wild Game from the Floodplains of the Tittabawassee and Saginaw Rivers (Michigan, USA).” ith R. Holem, J.J. Matousek, P.W. Bradley, J.L. Newsted, D.P. Kay, A.L. Blankenship, S.R. Roark, and M.S. Shotwell. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.

- (281) “Effects of TCDD, TCDF, and PeCDF Injected into the Air Cell of Japanese Quail (*Coturnix japonica*) Prior to Incubation.” A. Cohen-Barnhouse, S. Bursian, J. Link, P.D. Jones, Y. Wan, S. Wiseman, S. Kennedy, J. Newsted, and M. Zwiernik. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (282) “Multiple Lines of Evidence Risk Assessment of Great Horned Owls (*Bubo virginianus*) Exposed to PCDF/DDs in Midland, MI, USA.” With: S.J. Coefield, M.J. Zwiernik, T.B. Fredricks, R.M. Seston, M.W. Nadeau, D.L. Tazelaar, J.N. Moore, M.S. Shotwell, and D.P. Kay. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (283) “Enzyme Induction of Several Field-Collected Avian Species as Part of a Site-specific Risk Assessment on the Tittabawassee River, Midland, MI, USA.” With: T.B. Fredricks, R.M. Seston, P.B. Bradley, S.J. Bursian, M.J. Zwiernik, J.L. Newsted, D.P. Kay, and S.W. Kennedy. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (284) “Tissue-based Assessment of PCDFs, PCDDs, and PCBs in Great Blue Heron (*Ardea herodias*) Residing in the Tittabawassee River Floodplain, MI, USA.” With: R.M. Seston, M.J. Zwiernik, D.L. Tazelaar, T.B. Fredricks, S.J. Coefield, M.W. Nadeau, P.W. Bradley, and M.S. Shotwell, and D.P. Kay. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (285) “PCDF and PCDD Tissue-based Assessment of American Robins (*Turdus migratorius*) of the Tittabawassee River Floodplain, MI, USA.” With: D.L. Tazelaar, R.M. Seston, T.B. Fredricks, S.J. Coefield, M.W. Nadeau, S.J. Bursian, M.J. Zwiernik, M.S. Shotwell, and D.P. Kay,. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (286) “Effects of TCDD, 2,3,7,8-TCDF and 2,3,4,7,8-PeCDF Exposure on *CYP1A4* and *CYP1A5* mRNA Abundance in Japanese Quail (*Coturnix japonica*), Ring-necked Pheasant (*Phasianus colchicus*), and Chicken (*Gallus gallus*) in Ovo.” With: S. Wiseman, Y. Yang, P. Jones, Y. Wan, M. Zwiernik, S. Bursian, J. Herve, S. Kennedy, and J. Newsted. To: 29th annual meeting, November 16-21, 2008, Tampa, FL.
- (287) “Toxic Effect of Long-Term Exposure to Ibuprofen in *Daphnia magna*, *Moina macrocopa*, and *Oryzias latipes*.” With: S. Han, J. Kim, S. Kim, and K. Choi. To: 30th annual meeting, November 19-23, 2008, New Orleans, LA.
- (288) “Effects of Upper Danube River Sediments on Steriodogenesis Using a Combination of Chemical Fractionation and the H295R Assay.” With: E. Higley, S. Grund, T. Seiler, U. Lubcke-von Varel, W. Brack; T. Schulze, H. Hollert, and M. Hecker. To: 30th annual meeting, November 19-23, 2008, New Orleans, LA.
- (289) “Toxicity and Mutagenicity of Danube River Sediments Determined by Chemical Fractionation, the Danio rerio Embryo Assay and the Ames Fluctuation Test.” With: E. Higley, S. Grund, T. Seiler, U. Lubcke-von Varel, W. Brack, T. Schulze, J. Wolz, H. Zielke, H. Hollert, and M. Hecker. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.

- (290) “Origin of Hydroxylated Brominated Diphenyl Ethers: Natural Compounds or Man-made Flame Retardants?” With: Y. Wan, S.B. Wiseman, H. Chang, X. Zhang, P. Jones, M. Hecker, K. Kannan, J. Hu, and M. Lam. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (291) “Canidae Exposure to Polychlorinated Dibenzofurans (PCDFs) of the Tittabawassee River Floodplain, Midland, MI.” With: J. Moore, J. Newsted, S. Bursian, S. Plautz, S. Roark, M. Shotwell, D. Kay, X. Zhang, S. Fitzgerald, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (292) “The Effects of TCDD, PeCDF and TCDD on Reproduction of Mink and Growth and Survivability of their Offspring.” With: J. Moore, S. Bursian, S. Fitzgerald, J. Newsted, X. Zhang, J. Link, S.B. Wiseman, D. Kay, M. Shotwell, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (293) “The AHR Ligand Binding Domain and its Possible Role in predicting avian species sensitivity to dioxin-like compounds.” With: S.W. Kennedy, M. Zwiernik, S. Bursian, R. Farmahin, J.C. Herve, S.P. Jones, L.J. Mundy, D. Crump, J. Link, A. Cohen-Barnhouse, Y. Wan, and S.B. Wiseman. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (294) “Multiple Lines of Evidence Risk Assessment of Great Blue Heron Exposed to PCDD/DFs in the Tittabawassee River Floodplain, MI, USA.” With: R. Seston, T.B. Fredricks, S. Coefield, D. Tazelaar, P.W. Bradley, J. Newsted, S. Roark, D. Kay, J. Giesy, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (295) “Exposure and Condition of Three Passerine Species Along the Tittabawassee River: a Multiple Lines of Evidence Approach.” With: T.B. Fredricks, M. Zwiernik, R. Seston, S. Coefield, D. Tazelaar, P.W. Bradley, D. Kay, J. Newsted, and S. Roark. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (296) “Effects of PFCs on Gene Expression of the H4IIE Rat Hepatoma Cell Line.” With: J.E. Naile, S.B. Wiseman, and P. Jones. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (297) “OECD Validation Program of the H295R Steroidogenesis Assay to Screen for Inhibitors and Inducers of Sex Steroid Hormone Production.” With: M. Hecker, H. Hollert, R. Cooper, Y. Akahori, M. Murphy, R. Wu, P. Lam, C. Nellemann, E. Higley, J. Newsted, J. Laskey, S. Maletz, S. Han, G. Timm. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (298) “Effects of Ozone-Treated and Untreated Sediment-Free Oil Sand Processed Water on In Vitro Steroidogenesis.” With: Y. He, S.B. Wiseman, M. Hecker, P. Jones, M. Gamel El-Din, and J.W. Martin. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.

- (299) “Quality Assessment of Contaminated Sediment in Korean Coastal Areas: Application of Sediment Triad Approach.” With: J. Khim, and C. Koh. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (300) “Mechanism of Biotransformation of Methylated-PBDE’s to Hydroxylated-PBDE’s.” With: S.B. Wiseman, Y. Wan, X. Zhang, H. Chang, M. Hecker, P. Jones, and M. Lam. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (301) “Perfluorinated Compounds in Environmental Samples Collected from the Estuarine and Coastal Areas of Korea.” With: J.E. Naile, J. Khim, T. Wang, C. Chen, B. Kwon, C. Koh, P. Jones, and Y. Lu. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (302) “Effects of Chlorinated Dioxins and Furans on Japanese Quail, Common Pheasant, and Domestic Chicken: Insights from in ovo Studies.” With: Y. Yang, S.B. Wiseman, J. Herve, R. Farmahin, T.B. Fredricks, P.W. Bradley, A. Cohen-Barnhouse, Y. Wan, P. Jones, J. Newsted, S.W. Kennedy, M. Zwierni k, and S. Bursian. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (303) “Linking Biological and Molecular Effects of Ethinylestradiol Exposure in *Xenopus laevis*.” With: A. Tompsett, S.B. Wiseman, and M. Hecker. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (304) “Sensitivity of Early Life-Stages of White Sturgeon (*Acipenser transmontanus*) to Selected Metals.” With: D. Vardy, A. Tompsett, J. Oeller, K. Liber, M. Adzic, J. Giesy, and M. Hecker. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (305) “Substratum Suitability for Toxicity Tests With: Early Life-Stages of White Sturgeon (*Acipenser transmontanus*).” With: D. Vardy, A. Tompsett, K. Liber, M. Adzic and M. Hecker. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (306) “Sensitivity of White Leghorn Chicken (*Gallus gallus domesticus*) Embryos to in ovo Exposure to 2,3,7,8-TCDD, 2,3,4,7,8-PeCDF and 2,3,7,8-TCDF.” With: A. Cohen-Barnhouse, S. Bursian, J. Link, P. Jones, Y. Wan, S.B. Wiseman, Y. Yang, S.W. Kennedy, J. Newsted, B. Collins, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (307) “Sensitivity of Common Pheasant (*Phasianus colchicus*) Embryos to in ovo Exposure to 2,3,7,8-TCDD, 2,3,4,7,8-PeCDF and 2,3,7,8-TCDF.” With: A. Cohen-Barnhouse, S. Bursian, J. Link, and P. Jones. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (308) “Evaluation of Enzyme Induction in Relation to Tissue Concentrations of PCDDs, PCDF, and PCBs in Three Bird Species from the Tittabawassee River.” With: T.B. Fredricks, J. Newsted, R. Seston, P.W. Bradley, S.B. Wiseman, S. Bursian, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.

- (309) “Concentrations of PCDDs and PCDFs in Eggs and Diets of Wood Ducks and Hooded Mergansers.” With: L.L. Williams, T.B. Fredricks, M. Zwiernik, D. Tazelaar, J. Moore, D. Kay, R. Seston, S. Coefield, S. Kaelber-Matlock. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (310) “Adult and Nestling Band Returns and Long-Term Survival Monitoring of Three Passerine Species Inhabiting The Tittabawassee River Basin.” With: T.B. Fredricks, M.W. Nadeau, F. Vermeulen, D. Tazelaar, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (311) “Assessing the Exposure and Condition of American Robins Along the Tittabawassee River Utilizing a Multiple Lines of Evidence Approach.” With: D. Tazelaar, R. Seston, T.B. Fredricks, S. Coefield, J. Newsted, S. Roark, S. Bursian, D. Kay, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (312) “Ecological Risk Assessment of Great Horned Owls (*Bubo virginianus*) Exposed to PCDF/DDs in MI, USA.” With: S. Coefield, M. Zwiernik, T.B. Fredricks, R. Seston, M.W. Nadeau, D. Tazelaar, D. Kay, J. Newsted, and S. Roark. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (313) “Multiple Lines of Evidence Risk Assessment of Belted Kingfisher Exposed to PCDD/DDs in the Tittabawassee River Floodplain, MI, USA.” With: R. Seston, T.B. Fredricks, S. Coefield, D. Tazelaar, P.W. Bradley, S. Roark, J. Newsted, D. Kay, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (314) “The Effects of TCDD, PeCDF and TCDF on Development of Maxillary and Mandibular Squamous Epithelial Proliferation in Mink.” With: J. Moore, S. Bursian, S. Fitzgerald, J. Newsted, X. Zhang, J. Link, S.B. Wiseman, D. Kay, M. Shotwell, and M. Zwiernik. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (315) “Bottom-Up and Top Down: Do the Risk Assessments Meet in the Middle?” With: M. Zwiernik, T.B. Fredricks, R.M. Seston, S. Coefield, D. Tazelaar, J. Newsted, K. Strause, and A. Neigh. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (316) “Survival and Growth of White Sturgeon After Exposure to Columbia River Water at Two Sites in British Columbia, Canada.” With: A. Tompsett, D. Vardy, M. Allan, J.H. Smith, K. Liber, J and M. Hecker. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (317) “A Weight-of-Evidence Approach and Effect Directed Analysis – In Search for the Causes of Fish Decline in the Danube River.” With: H. Hollert, S. Keiter, M. Boettcher, S. Grund, J. Otte, K. Bluhm, N. Seitz, M. Hecker, E. Higley, M. Engwall, W. Brack, T. Schulze, M. Suter, R. Schoenenberger, U. Kammann, U. Stahle, and T. Braunbeck. To: 30th annual meeting, November 19-23, 2009, New Orleans, LA.
- (318) Development of Toxicity Reference Values for White Sturgeon (*Acipenser transmontanus*) in Support of Metal-Related Environmental Risk Assessments. “

With: D.W. Vardy, A. Tompsett, J. Oellers, J. Doering, M. Allan, M. Hecker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.

- (319) “Characterization of the Morphometric, Phenotypic, and Molecular Effects of 17 α – ethynylestradiol Exposure During Early Development in *Xenopus laevis*.” With: A. Tompsett, S.B. Wiseman, M. Hecker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (320) “Assessing the Endocrine Disruptive Effects of OSPW: Effects of Sex Hormone Steroidogenesis and Receptor Signalling in vitro.” With: Y. He, S.B. Wiseman, J. Anderson, M. Hecker, P. Jones, M. Gamal El-Din, J. Martin. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (321) “Effects of Triphenyltin Exposure During the Larval Period in Wood Frogs (*Rana sylvatica*).” With: E. Higley, A. Tompsett, M. Hecker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (322) “Evaluation of the Endocrine Disrupting Potential of the Binary Exposure to Trilostane and Prochloraz in H295R Cells and Medaka Fish.” With: X. Zhang, C. Liu, J. Doering, S. Park, H. Chang, J. Khim, P. Jones, B. Zhou, M. Hecker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (323) “Sensitivity of White Sturgeon (*Acipenser transmontanus*) to Copper at Critical Life Stages.” With: J. Doering, D.W. Vardy, J. Oellers, A. Tompsett, M. Hecker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (324) “Morphometric, Phenotypic, and Molecular Effects of 17 α –ethynylestradiol Exposure in the Wood Frog (*Rana sylvatica*).” With: A. Tompsett, E. Higley, S.B. Wiseman, M. Hecker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (325) “Genotoxic Potential of Several Polybrominated Diphenyl Ethers (PBDEs) and Hydroxylated PBDEs (OH-PBDEs) in Chicken DT40 Mutant Cells.” With: K. Ji, S. Takeda, K. Choi. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (326) “New evidence for the Natural Origin of Hydroxylated PBDEs.” With: S.B. Wiseman, F. Liu, X. Zhang, H. Chang, M. Hecker, P. Jones, M. Lam. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (327) “The Mechanism of Biotransformation of MeO-PBDEs to OH-PBDEs.” With: F. Liu, S.B. Wiseman, Y. Wan, H. Chang, M. Hecker, P. Jones, M. Lam. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (328) “Effects of Perfluorinated Phosphate Derivatives on Gene Expression in the H4IIE Rat Hepatoma.” With: P. Jones, J.E. Naile, S.B. Wiseman. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.

- (329) “Applying State of the Art Genomics Technology to OSPW Remediation.” With: S.B. Wiseman, J. Anderson, Y. He, P. Jones, M. Gamal El-Din, J. Martin. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (330) “Assessing the Cellular Effects of Naphthenic Acids Using a High Throughput Microbial Gene Profiling System.” With: X. Zhang, S.B. Wiseman, M. Hecker, P. Jones, H. Yu. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (331) “Growth of *Chironomus dilutes* Larvae Exposed to Ozone-treated and Untreated Oil Sands Process Water.” With: J. Anderson, S.B. Wiseman, E.D. Franz, M. Gamal El-Din, J. W. Martin, P. Jones, K. Liber. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (332) “Perfluorinated Compounds in Environmental Samples Collected from the Estuarine and Coastal Areas of Korea.” With: J.E. Naile, J. Khim, S. Song, S. Park, J. Park, B. Kwon, C. Koh, Y. Lu. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (333) “Does Early Life Exposure to Perfluorinated Chemicals Affect Airway Responsiveness?” With: M. Loewen, S. Basu, N. Nikoobakht, A. Halayko, C.S. Wong, G. Bondy, K. HayGlass, A. Becker. To: 31st Annual Meeting, November 7-11, 2010, Portland, OR.
- (334) “From Molecular Mechanism of Action to Ecological Risk Assessment: The Aryl Hydrocarbon Receptor and Avian Species Sensitivity to Dioxin-like Compounds.” With: S.W. Kennedy, R. Farmahin, D. Crump, G E. Manning, S.P. Jones, S.J. Bursian, M.J. Zwiernik, M.E. Hahn, S.I. Karchner. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (335) “Perfluorinated Compounds in Surface Waters from Northern China: Comparison to Level of Industrialization.” With: T. Wang, C. Chen, J.E. Naile, J. Khim, and Y. Lu., To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (336) “Comparison of Ozonation and Reclamation Pond Biodegradation as Treatments to Eliminate Oil Sands Process Water Toxicity in *Chironomus dilutes*.” With: J. Anderson, S.B. Wiseman, N. Wang, L.A. Perez, M.G. ElDin, J.W. Martin and K. Liber.. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (337) “Toxicity of Untreated and Ozone-treated Oil Sands Process-Affected Water (OSPW) to Early Life Stages of the Fathead Minnow.” With: Y. He, S.B. Wiseman, M. Hecker, P. Jones, A. Moustafa, N. Wang, L. Perez, M.G. Din and J.W. Martin. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (338) “Application of a Genome Wide Cell Array System in Ecotoxicity Assessment.” With: X. Zhang, G. Su, X. Hu, and H. Yu. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (339) “Sequence and In Vitro Function of Chicken, Ring-necked Pheasant and Japanese Quail AHR1 Predict In Vivo Sensitivity to Dioxins.” With: R. Farmahin, D. Wu, D.

Crump, J.C. Herve, S.P. Jones, M.E. Hahn, S.I. Karchner, S.J. Bursian, M.J. Zwiernik, and S.W. Kennedy. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.

- (340) “Influence of Species-specific Attributes on Dietary and Tissue-based Exposure Assessments of Two Fish-eating Bird Species Exposed to PCDFs and PCDDs.” With: R.M. Seston, T.B. Fredricks, D. Tazelaar, W.R. Folland, M.W. Nadeau, P.W. Bradley, J. Newsted, D. Kay, and M.J. Zwiernik. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (341) “Ecological Risk Assessment of Oil Spill Affected Area: Visited After Two Years the *Hebei Spirit* Oil Spill, Korea.” With: S. Hong, J. Khim, J. Ryu, J. Park, S. Song, K. Choi, K. Ji, J. Seo, S. Lee, J. Park, W. Lee, Y. Choi, K. Lee, C. Kim, W. Shim, and J. Naile. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (342) “Ketoconazole Increases the Endocrine Disruption Potential of Ibuprofen Exposure in the H295R Cells and Japanese Medaka.” With: K. Ji, K. Choi, K. Kwak, J. Khim, and X. Zhang. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (343) “Characterization of Polychlorinated Dibenzo-*p*-dioxins and Dibenzofurans in White-tailed Deer Along the Tittabawassee and Saginaw Rivers, MI, USA.” With: J. Newsted, R. Holem, D. Kay, A. Blankenship, and S. Roark. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (344) “Sources and Distribution of Polychlorinated-dibenzo-*p*-dioxins and Dibenzofurans in Soil and Sediment from the Yellow Sea Region of China and Korea.” With: J.E. Naile, J. Khim, T. Wang, Y. Wan, S. Hong, P. Jones, and Y. Lu. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (345) “Assessment of Chronic Toxicity of Upper Columbia River Sediments to Early Stage White Sturgeon.” With: D.W. Vardy, J. A. Doering, S.C. Beitel, B.J. Tendler, R. Santore, A.C. Ryan, and Hecker. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (346) “Biochemical and Molecular Responses of White Sturgeon (*Acienser transmontanus*) to an Aryl Hydrocarbon Receptor Agonist.” With: J. Doering, S. Beitel, B.J. Tendler, S.B. Wiseman and M. Hecker. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (347) “Relationships Between PCDDs, PCDFs, Dioxin-like PCBs, and Other Compounds of Concern in Fish from the Saginaw Bay Watershed (Lake Huron, MI, USA).” With: R. Holem, J. Newsted, S. Roark, J. Matousek, D. Tazelaar and D. Kay. To: 32nd Annual Meeting, November 13-17, 2011, Boston, MA.
- (348) “Analysis of the Transcriptome of the Fathead Minnow to Determine Mechanisms of Toxic Action of Oil Sands Process Affected Water.” With: S.B. Wiseman, Y. He, P. Jones, M. Hecker, J.W. Martin, and M.G. El-Din. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.

- (349) “Toxicogenomic Screening of Environmental Pollutants on Toxicity.” With: X. Zhang, G. Su, and H. Yu. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (350) “The Aryl Hydrocarbon Receptor Signaling Pathway of Fishes: Implications for Sturgeon Sensitivity to Dioxin-like Compounds.” With: J.A. Doering, S.B. Wiseman, S. Beitel and M. Hecker. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (351) “In-situ partitioning behavior of perfluorinated compounds along a salinity gradient from estuarine and coastal areas of Korea.” With: J. Khim, S. Hong, J. Park, J.E. Naile, and G.P. Codling. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (352) “Factors Affecting the Distribution of Perfluorinated Compounds in Sediments from Lake Shihwa, Korea.” With: J.E. Naile, H. Yoo, T. Jenkins, K. Lee, and J. Washington. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (353) “Effects of non-steroidal anti-inflammatory drugs on hormone production and gene expression in hypothalamic-pituitary-gonad axis of zebrafish.” With: K. Ji, X. Liu, S. Lee, S. Kang and K. Choi. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (354) “From Cell Lines to Fish: Ozonation as a Treatment Option for the Detoxification of Oil Sands Process Affected Water.” With: S.B. Wiseman, Y. He, J. Anderson, S. Patterson, P. Jones, K. Liber, M. Hecker, L. Perez-Estrada, and J.W. Martin. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (355) “Dietary selenomethionine exposure alters aerobic metabolism and methionine catabolism in adult zebrafish.” With: J. Kallarakavumkal Thomas, S.B. Wiseman and D. Janz. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (356) “Exposure of fish in the Athabasca and Slave Rivers to PAHs potentially derived from Oilsands operations.” With: E. Ohiozebau, B. Tendler, A. Hill, G. Codling, E. Kelly, P.V. Hodson, J. Short, and P. Jones. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (357) “Health Status and Biomarker Responses in Fish from the Athabasca and Slave Rivers in Relation to Potential Exposure to Oilsands Contaminants.” With: P. Jones, E. Ohiozebau, B. Tendler, A. Hill, G. Codling, E. Kelly, P.V. Hodson, J. Short. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (358) “A bioassay directed fractionation approach to discover novel bioactive organobromines from marine sponges and algae.” With: D.M. Saunders, R. Mankidy, G. Codling, and H. Ma. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (359) “Reconstructing the past nutrient status of a Canadian Great Plains reservoir using depositional sediments and paleolimnological techniques.” With: B. Lucas, K. Liber,

P.D. Jones, H.S. Wheeler, and L.E. Doig. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.

- (360) “Toxicity of Untreated and Ozone-treated Oil Sands Process-Affected Water (OSPW) to Early Life Stages of the Fathead Minnow (*Pimephales promelas*).” With: Y. He, S. Patterson, M. Hecker, M.G. Din, J.W. Martin, and S.B. Wiseman. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (361) “Exposure of fish in the Athabasca and Slave Rivers to metals potentially derived from Oil sands operations.” With: B. Tendler, E. Ohiozebau, A. Hill, G. Codling, E. Kelly, P.V. Hodson, J. Short, and P. Jones. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (362) “How reliable monitoring tool can be the estrogenic in vitro assay?” With: B. Jarosova, K. Hilscherova, R. Loos, B. Gawlik, and L. Blaha. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (363) “Sensitivity of White Sturgeon (*Acipenser transmontanus*) to Selected Environmental Pollutants.” With: D.W. Vardy, J. Doering, S. Beitel, B. Tendler and M. Hecker. To: 33rd Annual Meeting, November 11-15, 2012, Long Beach, CA.
- (364) “Evaluating Toxic Potential of Sediments in Taaan Near Hebei Spirit Oil spill site and Contributions of PAHs and Alkylated PAHs”. With: S. Lee, S. Hong, K. Noh, X. Liu, J. Khim, U. Yim, W. Shim and K. Choi. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (365) “An Effects Directed Analysis to Identify Toxic Constituents of OSPW”. With: S.B. Wiseman, N. Remenda, Y. He, R. Mankidy, H. Alharbi, A. Dos Santos, Pereira and J.W. Martin. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (366) “Assessing effects of dibenzothiophenes and related compounds on Aryl-hydrocarbon receptor antagonism and embryotoxicity to fathead minnow”. With: Y. He, S.B. Wiseman, R. Mankidy, and H. Alharbi. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (367) “Habitat Considerations for Ecological Risk Assessments of Wildlife Exposed to Persistent Organic Pollutants. With: D.L. Tazelaar, A.M. Neigh, and M.J. Zwiernik. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (368) “Relative Potency of PCDDs, PCDFs, and Dioxin-like PCBs Using the H4IIE-*luc* Chemically Activated Luciferase Gene Expression Assay”. With: S. Hong, K. Lee, J. Lee, K. Hilscherova, and J. Khim. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (369) “Assessment of the Sensitivity of Sturgeons to Dioxin-like Compounds Through Molecular Investigation into the Aryl Hydrocarbon Receptor Pathway”. With J.A. Doering, S.B. Wiseman, S. Beitel and M. Hecker. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.

- (370) “Historical Trends of Inorganic and Organic Fluorine in the North American Great Lakes”. With: G. Codling, P.D. Jones, A. Vogt, T. Wang, A. Li, N. Sturchio, P. Wang, Y. Lu, K.J. Rockne, K. Ji, J. Khim and J.E. Naile, To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (371) “Three Novel Brominated Flame Retardants: Potential Effects on Fecundity, Reproductive Fitness, and Maternal Transfers in Japanese Medaka”. With: D.M. Saunders, S. Wiseman, and R. Mankidy. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (372) “Fractionation and Characterization of Polar Organic Compounds in OSPW Using Mixed-mode Solid Phase Extraction Coupled to Mass Spectrometry (Orbitrap)”. With: H. Alharbi, S.B. Wiseman, A. dos Santos Pereira and J.W. Martin. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (373) “A comprehensive Model for Chemical Bioavailability and Toxicity of Organic Chemicals Based on First Principles”. With: J. Khim, S. Hong, J. Forrest, P. Bazylewski, R. Bauer and C. Kim. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (374) “Reconstructing the Historical Nutrient Status of Lake Diefenbaker, Saskatchewan, Canada, Using Sediment Algal Pigment Composition. With: T.J. Tse, Z. Quinones-Rivera, P.R. Leavitt, L.E. Doig, B. Lucas, K. Liber, H. Wheeler and P.D. Jones. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (375) “Spatial Distribution and Time Trend of Selected Chlorinated and Brominated Compounds in the Sediments of Lake Michigan”. With: J. Guo, A. Li, M. Corcoran, K.J. Rockne and N. Sturchio. To: 36th Annual Meeting, November 17-23, 2013, Nashville, TN.
- (376) “Health Status of Fishes from the Athabasca and Slave River System, Northern Canada” With P. Jones, A. Hill, B.J. Tendler, E. Ohiozebau, E. Kelly, J. Fresque-Baxter. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (377) “Pursuing the Chemical Culprits: What Organic Compounds are Responsible for Toxicity of Oil Sands Process- Affected Water?” With: S.B. Wiseman, A. dos Santos Pereira, G. Morandi, R. Mankidy, Z. Kun, N. Zetouni, E.K. Asiedu, J.W. Martin. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (378) “The Presence of Polycyclic Aromatic Hydrocarbons in edible fish tissue from the Athabasca/Slave river system, Canada” With: E. Ohiozebau, B. Tendler, A. Hill, G. Codling, E. Kelly, P. Jones. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.

- (379) “Functionality of aryl hydrocarbon receptors (AhR1 and AhR2) of white sturgeon and implications for the risk assessment of dioxin-like compounds”. With: J. Doering, R. Farmahin, S.B. Wiseman, S.W. Kennedy, M. Hecker. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (380) “Mixtures of Two Novel Brominated Flame Retardants Affect Fecundity and Transcript Profiles of the HPGL-Axis in Japanese Medaka”. With: D.M. Saunders, M. Podaima, G. Codling, S. Wiseman. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (381) “Assessment of PAHs and PCBs in sediment in aquatic systems in Durban, South Africa, using chemical and biological analysis”. With: N.L. Vogt, R. Pieters, B. Newman. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (382) “Assessing biological effects of municipal wastewater effluent using the fathead minnow reproductive bioassay.” With: K. Steeves, S. Hanson, T. Bagatim, S.B. Wiseman, P.D. Jones, M. Hecker, A. Hontela, N. Hogan. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (383) “Assessing potential endocrine disrupting effects of municipal effluents on fathead minnow (*Pimephales promelas*) populations in Southern Saskatchewan”. With S. Hanson, T. Bagatim, K. Steeves, S.B. Wiseman, N. Hogan, A. Hontela, P.D. Jones, M. Hecker. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (384) “Bioassay-directed characterization of endocrine-disrupting potencies of municipal effluents in Canada”. With: T. Bagatim, S. Hanson, K. Steeves, S.B. Wiseman, N. Hogan, P.D. Jones, M. Hecker. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (385) “Reconstructing long-term limnological trends in phytoplankton and toxin production using paleogenomics and next generation sequencing. With T. Tse, A. Hill, S. Wiseman, M. Hecker, L.E. Doig, H. Wheeler, P.D. Jones. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (386) “Teratogenic Retinoic Acids in Aqueous Environment”. With: J. Hu, X. Wu, J. Jinag, Y. Wan. To Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (387) “Chemical Profile of Swift Current Wastewater Treatment Plant Discharge and Its Potential Effects .” With: H. Yuan, G. Codling, H. Wheeler, M. Hecker, P.D. Jones. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.

- (388) “Species-specific bioaccumulation of perfluoroalkyl acids (PFAAs) in intertidal organisms of the west coast of South Korea”. With J. Khim, S. Hong, T. Wang, J.E. Naile, J. Park, B. Kwon, S. Song, J. Ryu, G. Codling, P.D. Jones, Y. Lu. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (389) “Assessing the mechanistic toxicity of oil sands process affected waters (OSPW) using a genome wide live cell array reporter system”. With: G. Morandi, H. Al Harbi, R. Mankidy, A. dos Santos Pereira, J. Martin, S. Wiseman. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (390) “Is oxidative stress a mechanism of toxicity of oil sands process affected water?”. With: S.B. Wiseman, Y. He, G. Morandi, R. Mankidy, H. Al Harbi, A. dos Santos Pereira, J.W. Martin. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (391) “Inhibition of multi-xenobiotic resistance (MXR/MDR) efflux activity as a potential mechanism of toxicity of oil sands process affected water”. With: H. Al Harbi, D.M. Saunders, J.W. Martin, A. dos Santos Pereira, S.B. Wiseman. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (392) “Reporter gene screening for endocrine disruptive compounds in the aquatic environment of a South African game reserve downstream of a DDT sprayed area”. With: R. Pieters, M. Delport, M. Hannam, S. Prinsloo, V. Wepener, N.J. Smit, Y. Ikenaka, M. Ishizuka. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (393) “Organophosphorous pesticides in honey, pollen and bees (*Apis mellifera* L.) and their potential hazard to bee colonies in Egypt.” With: Y. Al. Naggar, A. Vogt, G. Codling, E. Naem, M. Mona, A. Saif. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (394) “Effect-directed analysis and mixture effects of AhR-active compounds in crude oil and oil-contaminated sediments”. With: S. Hong, J. Khim, S. Lee, K. Choi, G. Kim, S. Ha, U. Kim, W. Shim, J. Jung. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (395) “Mixed Halogenated Carbazole Identification and Spatial Distribution and Temporal Trend in the Sediments of Upper Great Lakes” With: J. Guo, D. Chen, A. Li, Z. Li, P.A. Padiara, K. Rockne, N. Sturchio, D. Potter, R. Yang. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (396) “Chemodynamic behavior of Thallium in the Slave River, Northwest Territories, Canada”. With: B.J. Tendler, A. Hill, E. Ohiozebau, E. Kelly, J. Fresque-Baxter, P.D.

Jones. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.

- (397) “Two Highly Brominated Flame Retardants Are Photolytically Degraded to Biologically Active By-Products: Cytotoxic Effect and mRNA Expression in CEH”. With: G. Su, R.J. Letcher, D. Crump, R. Farmahin, S.W. Kennedy. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (398) “Legacy and Emerging Halogenated Organic Compounds in the Surface Sediments of Lake Huron” With: Z. Li, P. Ranasinghe, J. Guo, A. Li, K.J. Rockne, J.P. Giesy, and N. C. Sturchio. To: Society of Environmental Toxicology and Chemistry, 35th Annual meeting, Vancouver, BC, Canada, November 9-13, 2014.
- (399) “Characterization of the Endocrine Potencies of Municipal Effluents across Canada using in vitro Bioassays.” With: T. Bagatim, S. Hanson, H. Yuan, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, L. Bragg, H. Dhiyebi, M. Servo, C. Gauthier, F. Gagne, M. Hecker. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (400) “A Combined Transcriptomic and Proteomic Approach to Elucidate Adverse Effects of the Brominated Flame Retardant TBCO on Early-Life Stages of Japanese Medaka”. With: J. Sun, S. Tang, H. Peng, D.M.V. Saunders, J. Doering, M. Hecker, P. Jones, S. Wiseman. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (401) “Reproductive and Histopathological Effects of Municipal Wastewater Effluent Exposure in Male and Female Fathead Minnows.” With: K. Steeves, S. Hanson, T. Bagatim, S. Wiseman, P. Jones, M. Hecker, A. Hontela, N. Hogan. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (402) “Characterization of Toxicity Pathways of 2,3,7,8-TCDD, PCB 77, and Benzo[a] pyrene in White Sturgeon using Whole Transcriptome and Proteome Analyses.” With: J. Doering, S. Tang, S. Wiseman, H. Peng, B. Eisner, J. Sun, M. Hecker. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (403) “Determination of Acute and Sub-Chronic Toxicity of Emerging Contaminants to Early Life Stages of Rainbow Trout (*Oncorhynchus mykiss*) .” With: D. Schultz, S. Tang, S. Beitel, B. Sarauer, S. Hanson, D. Janz, S. Wiseman, P. Jones, M. Hecker. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (404) “Effect of Dissolved Organic Compounds from Oil Sands Process Affected Water (OSPW) on Toxicity of 7-isopropyl-1-methylphenanthrene (retene) to Early Life-stages of Japanese Medaka (*Oryzias latipes*).” With: H. Alharbi. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (405) “Temporal Comparison of Concentrations and the Bioaccessibilities of Novel Brominated Flame Retardants in Dust Collected From Daycares in Saskatchewan,

Canada.” With: D. Saunders, H. Peng, J. Sun, S. Wiseman. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.

- (406) “Diversity of Sediment Microbial Community in Response to Acid Mine Drainage Pollution in Hengshi River (Southeast China).” With: S. Tang, X. Zhang, M. Wang, Y. Xie, W. Sun, H. Liu, M. Hecker. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (407) “Can Identities of Key Amino Acids in the Ligand Binding Domain of the AhR Be Used to Predict the Sensitivity of Endangered Sturgeons to Dioxins?.” With: J. Doering. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (408) “Assessing Potential Endocrine Disrupting Effects of Municipal Effluents on Fathead Minnow (*Pimephales promelas*) Populations in Southern Saskatchewan.” With: S. Hanson, T. Bagatim, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, M. Hecker. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (409) “Predicting Acute Toxicity of Oil Sands Process Affected Waters.” With: G. Morandi. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (410) “Untargeted Strategy for Identification of Toxic Chemicals in OSPW.” With: H. Peng. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (411) “Mechanistic Investigations into Life-Sage Specific Differences in Sensitivity of White Sturgeon (*Acipenser transmontanus*) to Copper and Cadmium.” With: S. Tang. To: 36th Annual Meeting, November 1-5, 2015, Salt Lake City, UT.
- (412) “Predicting the Sensitivity of Oviparous Vertebrates to Dioxin-Like Compounds Based on In Vitro Activation of the AHR” With: J. Doering, M. Hecker. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (413) “Shifts in Diversity and Function of Sediment Bacterial Community in the Hengshi River upon Acid Mine Drainage Pollution” With: S. Tang. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (414) “Integrating paleo-16S Metagenomics with Paleo-variables to Infer Historical Trends of Cyanobacterial Composition within a Freshwater Lake” With: T.J. Tse, T. Song, L.E. Doig, S. Wiseman, M. Hecker, P.D. Jones. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (415) “Identification of Novel Brominated Disinfection By-Products of Concern in Drinking Water by Use of DIPIC-Frag Untargeted Screening” With: C. Watts, H. Peng, P.D. Jones. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (416) “Deconvolution of Environmental Mixture: Chemical and Biological Strategies” With: H. Peng, J. Sun, D.M.V. Saunders, S. Tang, M. Hecker, S. Wiseman, P.D. Jones, A. Li, K.J. Rockne, N.C. Sturchio. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.

- (417) “Reproductive and General Health Assessment of Fathead Minnow (*Pimephales promelas*) Populations Inhabiting an Effluent Dominated Stream, Wascana Creek, SK, Canada” With: S. Hanson, T. Bagatim, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, M. Hecker. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (418) “Characterizing the Toxicity of Oil Sands Process Affected Waters (OSPW)” With: G. Morandi. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (419) “Characterization of Gene Expression as Biomarkers for Monitoring the Exposure to the Oil Sands and Associated Development using Northern Pike in the Athabasca/Slave River System, Canada” With: H. Alharbi, S.B. Wiseman, P.D. Jones, B. Tendler, E. Ohiozebau. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (420) “Effect of Total Dissolved Organic Compounds of Oil Sands Process Affected Water (OSPW) on Toxicity of 7-Isopropyl-1-Methylphenanthrene (Retene) to Early Life- Stages of Japanese Medaka (*Oryzias latipes*)” With: H. Alharbi, G. Morandi, S.B. Wiseman. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (421) “Polyhalogenated Carbazoles in Sediment of the Great Lakes: Natural or Anthropogenic?” With: A. Li, K.J. Rockne, N.C. Sturchio. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (422) “Determination of Acute and Sub-Chronic Toxicity of Emerging Contaminants in Early Life Stages of Three Canadian Fish Species” With: D. Schultz, S. Tang, C. Miller, D. Janz, M. Hecker. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (423) “Characterization of Toxicity Pathways of 2,3,7,8-TCDD, PCB 77, and Benzo[a]pyrene in White Sturgeon using Whole Transcriptome and Proteome Analysis” With: J. Doering, S. Tang, S. Wiseman, H. Peng, B. Eisner, J. Sun, M. Hecker. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (424) “Characterization of Molecular Toxicity Pathways of Selected Emerging Contaminants to Elucidate Species-Specific Sensitivity of Three North American Native Fishes” With: A. Alcaraz, B. Eisner, D. Schultz, S. Tang, S. Wiseman, P. Jones, M. Hecker. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (425) “Characterization of the Endocrine Potencies of Municipal Effluents across Canada using In Vitro Bioassays” With: T. Bagatim, S. Hanson, H. Yuan, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, L. Bragg, H. Dhiyebi, M. Servos, C. Gauthier, F. Gagne, M. Hecker. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.
- (426) “Exposure to Municipal Wastewater Effluent Influences Fecundity and Hormone Signaling Pathways in Fathead Minnows (*Pimphales promelas*)” With: K. Steeves, S. Hanson, T. Bagatim, S. Wiseman, P. Jones, M. Hecker, A. Hontela, N. Hogan. To: 37th Annual Meeting, November 6-10, 2016, Orlando, FL.

- (427) “A Quantitative Adverse Outcome Pathway for Activation of the Aryl Hydrocarbon Receptor Leading to Early Life Stage Mortality” With: J. Doering, M. Brinkmann, A. Alcaraz, S. Wiseman, M. Hecker. To: 38th Annual Meeting, November 11-16, 2017, Minneapolis, MN.
- (428) “In Vitro Assessment of Ph-Dependent Uptake and Toxicity of Ionizable Organic Chemicals in Fish” With: M. Brinkmann, H. Harbi, S. Wiseman, S. Sura, G. Morandi, H. Peng, P.D. Jones, M. Hecker. To: 38th Annual Meeting, November 11-16, 2017, Minneapolis, MN.
- (429) “Unregulated Disinfection By-Products: Integration of Temporal Trends in Occurrence, In Vitro Toxicity, and Natural Organic Matter Precursors” With: C. Watts, H. Peng, P.D. Jones. To: 38th Annual Meeting, November 11-16, 2017, Minneapolis, MN.
- (430) “Application of the Target Lipid Model and Passive Samplers to Characterize the Toxicity of the Organics in Oil Sands Process-Affected Water” With: A.D. Redman, T. Parkerton, J. Butler, D. Letinski, R. Frank, M. Hewitt, A.J. Bartlett, P. Gillis, J. Parrott, J. Marentette, S.A. Hughes, R. Guest, A. Bekele, G. Morandi, S. Wiseman. To: 38th Annual Meeting, November 11-16, 2017, Minneapolis, MN.
- (431) “Influences of Environmental and Anthropogenic Contaminants on Bacterial Communities in Sediments of the West Coast of Korea” With: J. Lee, S. Hong, B. Kwon, J. Ryu, J. Khim. To: SETAC North America 39th Annual Meeting, Sacramento, CA, November 4-8, 2018.
- (432) “Bioaccumulation Characteristics of Polycyclic Aromatic Hydrocarbons by *Macrura veneriformis* exposed to Oil-suspended Particulate Matter Aggregates” With: J. Noh, H. Kim, C. Lee, S. Yoon, S. Chu, B. Kwon, J. Ryu, J. Kim, H. Lee, U. Yim, J. Khim. To: SETAC North America 39th Annual Meeting, Sacramento, CA, November 4-8, 2018.
- (433) “Sublethal Effects of Chronic Exposure to CdO or PbO Nanoparticles or Their Binary Mixture on the Honey Bee (*Apis mellifera* L.)” With: Y.A. Alnaggar, K. Dabour, S. Masry, A. Sadek, E. Naiem. To: SETAC North America 39th Annual Meeting, Sacramento, CA, November 4-8, 2018.
- (434) “In vitro-in vivo and cross-life stage extrapolation of uptake and biotransformation of benzo[a]pyrene in the fathead minnow” With: C. Grimard, A. Mangold-Döring, M.T. Schmitz, H. Alharbi, P.D. Jones, M. Brinkmann, M. Hecker. To: SETAC North America 39th Annual Meeting, Sacramento, CA, November 4-8, 2018.
- (435) “In vitro assessment of pH-dependent uptake and toxicity of ionizable organic chemicals in fish” With: M. Brinkmann, H. Alharbi, S. Wiseman, S. Sura, G. Morandi, H. Peng, P.D. Jones, M. Hecker. To: SETAC North America 39th Annual Meeting, Sacramento, CA, November 4-8, 2018.

- (436) “Shifts of microbiota of fish guts following exposure to dietary benzo[a]pyrene” With: A. DeBofsky, Y. Xie. To: SETAC North America 39th Annual Meeting, Sacramento, CA, November 4-8, 2018.
- (437) “Shifts of Gut Microbiota in Fishes from the North Saskatchewan River following the Husky Oil Spill” With: A. DeBofsky, Y. Xie, T. Jardine, P. Jones, M. Servos To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (438) “Environmental DNA (eDNA) Reveals Changes in Seasonal Dynamics of Wild Brook Trout (*Salvelinus fontinalis*) Population in a Grand River Stream” With: P. Marjan, E. Burton, P. Craig, H. Dhiyebi, A. Doxey, H. Ikert, N. Harper, B. Katzenback, J. Peters, M. Servos. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (439) “Bioinformatics Benchmarking for eDNA Metabarcoding of Canadian Freshwater Fish” With: Y. Xie, K. Prestie, A. DeBofsky, S. Srayko, P. Ankley, A. Vien, T. Jardine, M. Hecker, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (440) “Identification of Key Lipids Associated with Cold Adaption in Arctic Char *Salvelinus alpinus*” With: Y. Gong, C. Wang, J. Tang, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (441) “Comparing Electrofishing Observations to Environmental DNA Metabarcoding Detections along Bauman Creek, a Tributary of Ontario’s Grand River” With: N. Harper, H. Ikert, M. Lynch, P. Marjan, A. Doxey, M. Servos, P. Craig, B. Katzenback. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (442) “Impacts of Stream Disturbance on Brook Trout (*Salvelinus fontinalis*) eDNA Recovery” With: E. Burton, P. Marjan, H. Dhiyebi, P. Craig, B. Katzenback, A. Doxey, M. Servos. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (443) “Inflammation of Gill Epithelia in Fish Causes Disruption of Tight Junctions Leading to Increased Permeation of Polar Organic Chemicals” With: U. Fuchylo, H. Alharbi, P. Jones, M. Hecker, M. Brinkmann. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (444) “Development of a Novel, Non-Invasive Method of Measuring Fish Stress using Water Samples” With: H. Ikert, M. Lynch, A. Doxey, M. Servos, B. Katzenback, P. Craig. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (445) “Effect of ‘Traditional’ and ‘Novel’ Perfluoroalkyl Substances on Early Life Stages of Salmonid Fishes” With: S. Su, J. Raine, Y. Xie, Y. Gong, J. Tang, C. Wang, Z. Yang, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (446) “Occurrence of Growth Promoters in Beef Cattle Operations and Transport in Simulated Runoff from Associated Environments” With: J. Challis, J. Cantin, A.

Curtis, S. Sura, K. Shade, T. McAllister, P. Jones, F. Larney. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.

- (447) "The Binding of Antidepressants to Analogous Transporters on Neurons and Bacterial Cells, What Might this Mean for Gut Microbiota" With: A. Weber, A. DeBofsky, J. Rubin, Y. Xie, M. Lyte. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (448) "Comparison of the Effects of Extraction Techniques on Mass Spectrometry Profiles of Dissolved Organic Compounds in Oil Sand Process-Affected Water" With: H. Alharbi, G. Morandi, P. Jones, S. Wiseman. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (449) "Non-Targeted Analysis of Sediment Cores using Orbitrap-MS and Direct Injection Methods" With: A. Vien, L. Doig, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (450) "Effect of Herbicide Safeners, Cyprosulfamide, on Survival, Growth and Reproduction of *Daphnia Magna*" With: O. Femi-Oloye, F. Oloye, J. Challis, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (451) "Preliminary Assessment of the Fate, Mobility, and Behavior of the Herbicide Safener in Soil and Water Environments" With: J. Challis, F. Oloye, O. Femi-Oloye, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (452) "Mercury Speciation by Automated Derivatization and Headspace SPME Followed by GC Orbitrap MS" With: B. Tendler, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (453) "Impacts of Ultra-High Resolution Mass Spectrometry on Environmental Chemistry" With: P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (454) "Zooplankton Metabarcoding to Assess the Acute Effects of Diluted Bitumen Remediation Efforts" With: P. Ankley, Y. Xie, A. DeBofsky, M. Paterson, M. Perry, S. Higgins, V. Palace. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.
- (455) "Effects of PFBS and PFBA Exposure on Lipids during the Development of Rainbow Trout (*Oncorhynchus mykiss*)" With: J. Tang, Y. Gong, C. Wang, S. Su, Y. Xie, Z. Yang, J. Raine, P. Jones. To: 40th Annual Meeting, November 3-7, 2019, Toronto, ON.

* **SETAC-Europe: (123)**

- (1) "A Rapid, Acute Test Using *Daphnia magna* for Evaluation of Sediment Toxicity." With: E.C. Leweke-Kelin, J.A. KubitZ and J.M. Besser. First World Congress, March 27-31, 1993. Lisbon, Portugal.

- (2) “Novel Analytical Methods for Quantitation of Alkylphenolpolyethoxylates in Environmental Samples”. With: S.A. Snyder, D.L. Villeneuve, D.A. Verbrugge, K.M. Nichols, S.L. Pierens and E.M. Snyder To: 7th Annual meeting, April 6-10, 1997, Amsterdam, The Netherlands.
- (3) “Application of Novel Recombinant Cell Bioassays to Screen for Estrogen and Ahr Agonists in Wastewater Effluents”. With: D.L. Villeneuve, S.A. Snyder, A.L. Blankenship, S.R. Miles-Richardson, K.M. Nichols, S.L. Pierens and E.M. Snyder. To: 7th Annual meeting, April 6-10, 1997, Amsterdam, The Netherlands.
- (4) “Rainbow Trout Cell Bioassay Derived TEFs for Hologenated Aromatic Hydrocarbons: A Comparison”. Villeneuve, D.L. and C.A. Richter. To: 7th Annual meeting, April 6-10, 1997, Amsterdam, The Netherlands.
- (5) “Strategies for Assessing Potential for Compounds to Modulate Endocrine Function in Aquatic Organisms”. With: S.R. Miles-Richardson, K.M. Nichols, S.L. Pierens, E.M. Snyder, S.A. Snyder and D.L. Villeneuve. To: 7th Annual meeting, April 6-10, 1997, Amsterdam, The Netherlands.
- (6) “Reproductive Impairment and Induction of Plasma Alkaline-Labile Phosphate in Fathead Minnows (*Pimephales promelas*) Exposed to Waterborne 17 β -Estradiol”. With: V.J. Kramer, S. Miles-Richardson and S.L. Pierens. To: 8th Annual meeting, April 14-18, 1998, Bordeaux, France.
- (7) “In vitro Bioassays in Assessment of AhR- and ER-Mediated Activity of Samples from Rivers in the Czech Republic”. With: K. Staffova, K. Kannan, I Holoubek, A. Ansorgova and M. Machala. To: 8th Annual meeting, April 14-18, 1998, Bordeaux, France.
- (8) “Mechanisms of Photo-enhanced Toxicity of Polycyclic Aromatic Hydrocarbons”. With: J.T. Oris and G.T. Ankley. To: 9th Annual Meeting, May 25-29, 1999, Leipzig Germany.
- (9) “Studies of the Mechanism of TCDD-induced Deformities and Embryo Lethality in Birds. With: K. Staffova, A. Blankenship, M. Nie, D. Powell, K. Kemler, A. Villalobos and I. Holoubek”. To: 9th Annual Meeting, May 25-29, 1999, Leipzig Germany.
- (10) “Evaluation of Cytotoxicity, TCDD-Like Toxicity and Estrogenicity of Complex Environmental Mixtures”. With: K. Staffova, L. Dusek, K. Kannan, I Houloubek and M. Machala. To: 9th Annual Meeting, May 25-29, 1999, Leipzig Germany.
- (11) “Oestrogenic and Antioestrogenic Potentials of Freshly Deposited Sediments Along the Elbe River, Germany.” With: M.-P. Beck, P. Balaguer, J.-C Nicholas and A.L. Blankenship. To: 9th Annual Meeting, May 25-29, 1999, Leipzig Germany.
- (12) “The Use of Vitellogenin ELISA to Measure the Effects of Estrogenic Substances on Laboratory Fishes”. With: P. D. Jones, S. L. Pierens, E. M. Snyder, S. Miles-Richardson, V. J. Kramer, S. A. Snyder, K. M. Nichols, S. A. Villalobos and D. L.

Villeneuve. To: 3rd SETAC World Congress, May 21-24, 2000, Brighton, United Kingdom. *Invited keynote*

- (13) “Cloning of Zona Radiata Proteins From Rainbow Trout (*Oncorhynchus mykiss*): A Marker for Investigating Estrogenic Endocrine Modulators in Fish”. With: T. Celius, J. B. Matthews, S. A. Villalobos and T. R. Zacharewski. To: 3rd SETAC World Congress, May 21-24, 2000, Brighton, United Kingdom.
- (14) “Accumulation of PCBs in Southern Ocean Pilot Whales (*Globicephala melas*) From New Zealand Stranding Events” With: P. D. Jones, C. Schroder and P. J. Day. To: 3rd SETAC World Congress, May 21-24, 2000, Brighton, United Kingdom.
- (15) “Evaluation of the Toxicological Model of Action Perfluorinated Chemicals using Cellular Reporter Assays”. With: W.M. De Coen, A. Vlaeminck, P. Hoff, K. Willens and R. Blust. To: 11th Annual meeting, May 6-10, 2001, Madrid, Spain.
- (16) “The Effects of Perfluorinated Chemicals on the Steroid Binding Properties in the blood of Fish and Birds”. With: W.M. De Coen, W. Hu, P. Jones and K. Kannan. To: 11th Annual meeting, May 6-10, 2001, Madrid, Spain.
- (17) “Comparisons Among Perfluorinated Compounds of Effects on Gap Junction Intercellular Communication”. With: W. Hu, P.D. Jones, B.L. Upham and J.E. Trosko. To: 11th Annual meeting, May 6-10, 2001, Madrid, Spain.
- (18) “Tetrachlorodibenzo-*p*-dioxin Equivalents (TCDD-EQ) in Tissue Samples from Three Species in the Denver Metropolitan Area” With: K.K. Kemler, P.D. Jones and A.L. Blankenship. To: 11th Annual meeting, May 6-10, 2001, Madrid, Spain.
- (19) “Demonstration of a Substantial Reduction in Uncertainty after Application of Site-Specific Data - A Case study With: Wildlife Exposure to PCBs via Plants in the Diet.” With: M. Zwiernik, A.L. Blankenship, P.D. Jones, K. Kannan, D. Kay, P. Bradley, K. Strause, S. Pastva and R. Holem. To: 12th Annual meeting, May 12-16, 2002, Vienna, Austria.
- (20) “Comparison of Two Common Treatment Processes of Municipal Landfill Leachate With: Regard to the Elimination of Xenoestrogens.” To: 12th Annual Meeting, May 12-16, 2002, Vienna, Austria. With: A. Coors, P.D. Jones, and H.T. Ratte.
- (21) “Demonstration of a Substantial Reduction in Uncertainty after Application of Site-Specific Data—A case Study With: Wildlife Exposure to PCBs via Plants in the Diet.” To: 12th Annual Meeting, May 12-16, 2002, Vienna, Austria. With: M. Zwiernik, A.L. Blankenship, P.D. Jones, D. Kay, P. Bradley, K. Strause, S. Pastva and R. Holem.
- (22) “Toxic and Endocrine Effects of Three Nonylphenol Isomers” With: T.G. Preuss, A. Coors, and H.T. Ratte. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.

- (23) “Plasma Sex Steroid Concentrations in *Xenopus laevis* Exposed to Atrazine in the Field in South Africa”. With: M. Hecker, K. Coady, K.R. Solomon, A.M. Jooste and L. Du Preez. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (24) “Binding of Perfluorinated Chemicals to Serum Proteins”. With: P.D. Jones, W.Y. Hu, W. De Coen, and J.L. Newsted, To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (25) “Principal Components Analysis of Dioxins from Rocky Mountain Arsenal and Denver, Colorado.”. With: P.D. Jones, J.L. Newsted, G. Henningson, L. Williams, C. Bicher, and J. Slocomb. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (26) “Comparison of Genome-Wide Gene Expression Analysis Methods”. With: W. Hu, and P.D. Jones. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (27) “Identification of Genes Responsive to Perfluorooctane Sulfonate Acid Using Gene Expression Profiling”. With: W. Hu, P.D. Jones, C. Lau, and J.L. Newsted. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (28) “Estrogenic Activity in Waste Waters of Different Origins Before and After Treatment With: Advanced Methods”. With: A. Coors, P.D. Jones and H.T. Ratte. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (29) “In Vitro Dioxin Toxicities of Photoproducts Formed by Irradiation of Monochlorophenols in Ice and Liquid Water”. With: J. Janosek, L. Blaha, J. Klanova, P. Klan and I. Holoubek. To: 13th Annual Meeting, April 27-May1, 2003, Hamburg, Germany.
- (30) “Acute Toxicity and Estrogenic Potency of Individual Nonylphenol Isomers” With: T. G. Preuss, P. D. Jones and H.-T. Ratte. To: 14th Annual Meeting, April 18-22, 2004, Prague, Czech Republic.
- (31) “Structure-toxicity Relationships for N-heterocyclic PAHs: In vitro Cytotoxicity and Dioxin-like Effects”. With: L. Blaha, I. Sovadinova, R. Vykonalova and J. Janosek. To: 14th Annual Meeting, April 18-22, 2004, Prague, Czech Republic.
- (32) “PCB Distribution and Accumulation Patterns in an Ecosystem-Wide Investigation of the Kalamazoo River Flood Plain, Michigan, USA”. With: P. Bradley, P. D. Jones, M. Zwiernik, A. L. Blankenship and D. Kay. To: 14th Annual Meeting, April 18-22, 2004, Prague, Czech Republic.
- (33) “Effects of Chemicals on Steroidogenesis in H295R Cells”. With: T. R. Gracia, K. Hilscherova, P. D. Jones, J.T. Sanderson, X. Zhang and J.L. Newsted. To: 14th Annual Meeting, April 18-22, 2004, Prague, Czech Republic.

- (34) “In Vitro Dioxin-like Potencies and Cytotoxicity of N-heterocyclic PAH Derivatives”. With: I. Sovadinova, R. Vykonálová, J. Jaroslav and L. Blaha. To: 14th Annual Meeting, April 18-22, 2004, Prague, Czech Republic.
- (35) “Q-RT-PCR Methods for Evaluating Toxicant-Induced Effects of Steroidogenesis Using the H295R Cell Line”. With: X. Zhang, R.M.K. Yu, T. Gracia, J.T. Sanderson, P.D. Jones, J.L. Newsted, and R.S.S. Wu. To: 14th Annual Meeting, April 18-22, 2004, Prague, Czech Republic.
- (36) “Development of a H295R Cell Line Test to Evaluate Toxicant-Induced Effects on Steroidogenesis”. With: M. Hecker, M. Murphy, T. Gracia, P. Jones, X. Zhang, T. Sanderson and J. Newsted. To: 15th Annual Meeting, May 22-26, 2005, Lille, France.
- (37) “Complex Low Level Exposure Situation and Relevance of in vitro Oestrogenic Testing: Example from Elbe River and Baltic Sea”. With: M.-P. Beck, M. Hecker, I.-C. Beck, R. Bruhn, L. Karbe. To: 15th Annual Meeting, May 22-26, 2005, Lille, France.
- (38) “Effect of Humic Substances on Intracellular Receptors”. With: M. Bittner, J. Janošek, L. Blaha, K. Hilscherová and I. Holoubek. To: 15th Annual Meeting, May 22-26, 2005, Lille, France.
- (39) “Seasonal Changes in Testicular Morphology in the African Clawed Frog, *Xenopus laevis*: A Histometric Analysis”. With: L. H. Du Preez, G. J. Everson, M. Hecker, J.A. Carr, R. J. Kendall, E.E. Smith, G. Van der Kraak, and K. R. Solomon. To: 15th Annual Meeting, May 22-26, 2005, Lille, France.
- (40) “Effects of Waste Coal-Polluted Sediments and Probable Causes of Intersex Occurrence in Freshwater Crayfish”. With: E. Mazurová, L. Blaha, K. Hilscherová, A. Duris, I. Horka and P. Jones. To: 15th Annual Meeting, May 22-26, 2005, Lille, France.
- (41) “Early Exposure-Late Effects in Invertebrates and Vertebrates. To: 16th Annual meeting, May 7-11, 2006, The Hague, The Netherlands. ***Invited, Plenary Keynote Address.***
- (42) “Inter-laboratory pre-validation of the H295R Cell Line Steroidogenesis Assay”. With: M. Hecker, G. Timm, A.-M. Vinggaard, M.L. Hagen, Y. Akahon, M. Nakai, R. Cooper, J.W. Laskey and J. W. Newsted. To: 16th Annual meeting, May 7-11, 2006, The Hague, The Netherlands.
- (43) “Anti/estrogenic and AhR-mediated Effects of Humic Substances”. With: J. Janošek, M. Bittner, K. Hilscherová, L. Bláha and I. Holoubek. To: 16th Annual meeting, May 7-11, 2006, The Hague, The Netherlands.
- (44) “AhR-Mediated Activity of Humic Acids-Changes After Irradiation”. With: M. Bittner, J. Janošek, L. Bláha and I. Holoubek. To: 16th Annual meeting, May 7-11, 2006, The Hague, The Netherlands.

- (45) “Comparative assessment of reproductive toxicity of contaminated freshwater sediments by in vitro biotests and in vivo assays With: two invertebrate species”. With: E. Mazurova, K. Hilscherova, R. Triebskorn and L. Blaha. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (46) “Comparison of in vivo and in vitro based steroidogenesis assays to identify endocrine active chemicals”. With: M. Hecker, G. Ankley, E. Makynen, L. Blake, K. Greene, E. Higley, J. Newsted and D. Villeneuve. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (47) “AhR-active Humic Substances - Danger or Benefit?”. With: M. Bittner, K. Hilscherová. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (48) “Atrazine and amphibians: Risks in the agricultural landscape”. With: K. Solomon, J. Carr, L. Du Preez, R. Kendall, E. Smith, G. Van der Kraak. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (49) “Assessment of retinoic activity in fly ash and air samples from polluted areas using P19/A15 cell line”. With: J. Novak, M. Benisek, T. Sidlova, L. Blaha and K. Hilscherova. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (50) “Temporal vs. spatial variations in concentrations of compounds With: specific modes of action in river sediment samples”. With: T. Sidlova, V. Jalova, K. Hilscherova. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (51) “Alteration of steroidogenesis in H295R cells after exposure to sediments of the Danube river”. With: S. Grund, T. Gracia, E. Higley, T. Braunbeck, M. Hecker, H. Hollert. 17th Annual Meeting SETAC Europe, May 20-24, 2007, Porto, Portugal.
- (52) “Effects of polychlorinated dibenzofurans (PCDFs) on P450 enzyme induction, jaw histology and tissue morphology in mink (*Mustela vison*) in a kinetic feeding study”. With: J. Moore, M. Hecker, M.J. Zwiernik, P.W.B. Bradley, S.D.F. Fitzgerald, J.L. Newsted, M.S.S. Shotwell, D.P. Kay, E.B. Higley, L.L.A. Aylward, J.S.K. Khim, J.K.J.B. Beckett, and S.J.B. Bursian. To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
- (53) “The integrated assessment of contaminated sediments: crayfish intersex observed in situ explored by in vitro and in vivo studies”. With: E. Mazurova, L. Blaha, K. Hilscherova, and R. Triebskorn. To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
- (54) “Seasonal dynamics of specific activities of sediments and water samples from polluted river-basin”. With: M. Bittner, P. Macíková, and K. Hilscherova. To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
- (55) “Ah receptor mediated activities of contaminants in sediment samples from the Elbe River, Germany”. With: J.C. Otte, P.S. Rocha, M. Brinkmann, C. Faßbender, E.B.

- Higley, D.-S. Wahrendorf, W. Manz, S. Keiter, T. Braunbeck, M. Hecker, and H. Hollert. To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
- (56) “Complex assessment of endocrine disruptive activity in the river ecosystem using active and passive sampling and bioassays”. With: V. Jalova, K. Hilscherova, T. Ocelka, R. Grabic, and. J Jurcikova. To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
 - (57) “Specific activity of air samples from regions With: different type of pollution”. With: J. Novak, V. Jalova, and K Hilscherova To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
 - (58) Measured vs. predicted, the chronic effects of polychlorinated dibenzofurans on mink in laboratory and field environments, implications for TEFs. With: M..J. Zwiernik et al.”To: 18th Annual Meeting SETAC Europe, May 25-29, 2008, Warsaw, Poland.
 - (59) “The OECD Validation Program of a Cell-based Assay to Screen for Inhibitors and Inducers of Sex Steroid Hormone Production: The H295R Steroidogenesis Assay.” With: M. Hecker , H. Hollert , R. Cooper ,A.-M. Vinggaard , Y. Akahori , M. Murphy , R. Wu , P. Lam , C. Nellemann , E. Higley , J. Newsted , J. Laskey , S. Grund, S. Maletz , S.Y. Han , G. Timm. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, 2009Goteborg, Sweden.
 - (60) “Assessing Sediments and Fish Health Using a Weight-of-Evidence Approach and Effect-Directed Analysis - in Search of the Causes of Fish Decline in the Danube River.” With: H. Hollert , S. Keiter , S. Grund , M. Böttcher , N. Seitz , J. Otte , K. Wurm , M. Hecker , E. Higley , H. Olsman (Takner) , U. Lubcke-von Varel , T. Schulze , B. Van Bavel , M. Engwall , G. Reifferscheid , W. Manz , L. Erdinger , U. Kammann , R. Schönenberger , M. Suter , W. Brack , T. Braunbeck. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
 - (61) “Searching for the (Eco)Toxicological Relevance of Sediment Remobilisation and Transport During Flood Events inRivers. Part B: CYP1A1 Induction, Micronuclei in Blood Cells and Gene Expression Analysis.” With: M. Brinkmann , S. Hudjetz , C. Cofalla , S. Roger, U. Kammann, M. Hecker , H. Schüttrumpf , J. Wölz , H. Hollert. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
 - (62) “The H295R Steroidogenesis Assay – Validation of a Cell-Based In Vitro Tier 1 Screening Assay for Endocrine Disruptors.” With: S.X. Maletz , E. Higley , S. Grund , H. Hollert , M. Hecker. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
 - (63) “Specific Toxic Effects of Complex Extracts from Gas Phase and Six Fractions of Air Particulate Matter fromLlocalities With: Different Pollution Sources. With: J. Novak , J. Smutny , P. Cupr , J. Klanova , K. Hilscherova , M. Bittner. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.

- (64) “Temporal Changes of Specific Activities of Pollutant Mixtures in River Compartments - Consequences for Risk Assessment.” With: K. Hilscherova , L. Dusek , V. Jalova , M. Bittner , P. Macikova , S. Nehyba , I. Holoubek. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
- (65) “Enhancement of Toxicity of Various POPs in Consequence of Interaction With: Dissolved Humic Substances. With: M. Bittner, K. Hilscherova. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
- (66) “Combination of Passive Sampling and in vitro Bioassays for Assessment of River Ecosystem Contamination by Endocrine Disruptive Compounds.” With: V. Jalova , B. Jedlickova , K. Hilscherova , T. Ocelka , R. Grabic , J. Jurcikova , J. Halirova. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
- (67) “Impact of Chlorinated Dioxins and Furans on Japanese Quail, Ring-Necked Pheasant, and Chicken: Insights from in Ovo Studies.” With: S.B. Wiseman , Y. Yang , J. Herve , R. Farmahin , T. Fredricks , P. Bradley , A. Cohen-Barnhouse , Y. Wan , P. Jones , J. Newsted , S. Kennedy , M. Zwernick , S. Bursian. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
- (68) “Evaluation of the Endocrine-Disrupting Potential of Bisphenol A using the H295R Steroidogenesis assay and Small Fish Model. “ With: X. Zhang , E. Higley , H. Chang , Y. He , S. Wiseman , M. Hecker. To: SETAC Europe 19th Annual Meeting, May 31 – June 4, 2009, Goteborg, Sweden.
- (69) “FLOODSEARCH Part B: A multiple biomarker approach to assess the toxicity of resuspended sediments during simulated flood events.” With: M.B. Brinkman, S. Hudjetz, C. Cofalla, S. Roger, U. Kammann, M. Hecker, H. Schuttrumpt, J. Wolz, H. Hollert. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (70) “Assessment of Upper Danube River sediment using new fractionation techniques, the Danio rerio embryo assay, the Ames fluctuation assay and the H295R Steroidogenesis Assay.” With: E. Higley, S. Grund, T. Seiler, T. Schulze, U. Lubcke-von Varel, W. Brack, J. Wolz, H. Hollert, M. Hecker. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (71) “Specific activities of gas and particulate phase air pollutants from Banja Luka region-comparison of data from chemical analyses and in vitro bioassays.” With: J. Novak, M. Cvesperova, J. Klanova. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (72) “The OECD Steroidogenesis Draft Test Guideline to screen for endocrine disruptors.” With: M. Hecker, H. Hollert, R. Cooper, A. Vinggaard, Y. Akahon, M. Murphy, C. Nellemann, E. Higley, J. Newsted, J. Laskey, S. Grund, S. Maletz, S. Young and Han, G. Timm. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (73) “From molecular mechanism of action to ecological risk assessment – The aryl hydrocarbon receptor and the sensitivity of avian species to dioxin-like compounds.”

With: S.W. Kennedy, R. Farmahin, S.J. Bursian, D. Crump, M.E. Hahn, J.C. Herve, S.P. Jones, S. Karcher, M.J. Zwiernik. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.

- (74) “Enhancement of toxicity of selected POPs and its mixtures in consequence of interaction With: dissolved organic matter.” With: M. Bittner, and P. Macikova. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (75) “Investigating endocrine potentials of hospital sewage effluents after different treatments applying the LYES and H295R assay.” With: T.P. Floehr, S.X. Maletz, S. Beier, E. Higley, H.F. Schroeder, M. Hecker, J. Pinnekamp, H. Hollert. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (76) “Assessment of composition and endocrine-disruptive potency of complex pollutant mixtures in waste water and their elimination during waste water treatment.” With: V. Jalova, B. Jedlickova, K. Hilscherova, L. Blaha, T. Ocelka, R. Grabic, J. Jurcikova, J. Halirova. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (77) “Acute toxicity of lead and copper to early life-stages of White Sturgeon (*Acipenser transmontanus*) and Rainbow Trout (*Oncorhynchus mykiss*).” With: J. Oellers, D. Vardy, A. Tompsett, J. Doering, H. Hollert, K. Liber, M. Hecker. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (78) “Development of metal toxicity reference values for white sturgeon (*Acipenser transmontanus*).” With: D. Vardy, A. Tompsett, J. Oellers, J. Doering, M. Allan, M. Hecker. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (79) “Bioanalytical investigation of different treatment methods With: regard to the endocrine disrupting potential of hospital wastewater.” With: S.X. Maletz, T.P. Floehr, S. Beier, E. Higley, M. Hecker, A. Brouwer, P. Behnisch, J. Pinnekamp, H. Hollert. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.
- (80) “Contamination of River Ecosystem by Compounds With: Specific Modes of Action Assessed in Biotic and Abiotic Matrices Using In Vitro Bioassays.” With: V. Jalova, T. Ocelka, R. Grabic, J. Jurcikova, J. Halirova, J. Blahova, Z. Svobodova, and K. Hilscherova. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
- (81) “Photo-Transformation of AhR-active Hydrophobic Organic Compounds in Presence of Humic Substances.” With: M. Bittner, P. Macikova, J. Ospalik, and L. Blaha. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
- (82) “Changes of AhR-mediated Toxicity of Hydrophobic Organic Compounds after UV-VIS Irradiation.” With: P. Macikova, J. Ospalik, M. Bittner, and L. Blaha. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
- (83) “Alterations in Gene Expression after Exposure of Zebrafish (*Danio rerio*) Embryos to Sediment Extracts.” With: J.E. Braunig, S. Peddinghaus, S. Wiseman, M. Hecker, J.P.

- Giesy, S. Keiter and H. Hollert. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
- (84) “Potential Endocrine Disrupting Effects of Six Pharmaceuticals in H295R Cell and Freshwater Fish *Oryzias Latipes*.” With: K.H. Ji, S.Y. Han, J.K. Kim, S.M. Kim, S.W. Lee, B.W. Ahn, J.H. Yun, E.H. Jo, K.H. Choi, J.S. Khim, X.W. Zhang, and K.H. Choi. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
 - (85) “Characterization of Growth, Gene Expression and Behavioral Effects of Exposure to Ozone-Treated and Untreated Oil Sands Process Water on *Chironomus Dilutus* Larvae.” With: J.C. Anderson, S.B. Wiseman, N. Wang, L. Perez, M. Gamal El-Din, J.W. Martin, and K. Liber. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
 - (86) “Uptake and Accumulation of Sediment-Bound Heavy Metals and Effects on Gene Expression in Zebrafish (*Danio rerio*) Embryos.” With: R. Redelstein, H. Zielke, L. Erdinger, H. Zimmer, U. Feiler, D. Spira, S. Wiseman, M. Hecker, J.P. Giesy, T.B. Seiler and H. Hollert. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
 - (87) “Specific Effects of Air Contamination from Passive Sampling Campaign in Africa.” With: J. Novak, A. Ersekova, and J. Klanova. To: 21st annual meeting, May 15-19, 2011, Milan, Italy.
 - (88) “Dietary Accumulation, Maternal Transfer and Metabolic Inter-conversion of Methoxylated, Hydroxylated and Synthetic PBDEs”. With: M. Hecker, Y. Wan, X.W. Zhang, H. Chang, F.Y. Liu, P.D. Jones, and S.B. Wiseman. Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
 - (89) “Do Cyanobacteria Produce Estrogenic Compounds?” With: K. Hilscherova, K. Novakova, E. Sychrova, T. Stepankova, and L. Blaha. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
 - (90) “Hydroxylated / Methoxylated Analogs of Polybrominated Diphenyl Ethers: Biotransformation Products of PBDEs or Natural Products. With: M. Hecker, S. Wiseman, Y.I. Wan, X. Zhang, H. Chang, F. Liu, P.D. Jones, J. Musaraat, and A. Al Kedhair. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
 - (91) “All Mixed Up: Phenotypic Plasticity in a Genotypic World”. With: A.R. Tompsett, S. Wiseman, E. Higley, S. Pryce, and M. Hecker. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
 - (92) “Can Flood Events Affect Rainbow Trout? The Biomarker-cascade After Exposure to PAHs in Sediment Suspensions?” With: M. Brinkmann, S. Hudjetz, J. Kuckelkorn, M.P. Hennig, C. Cofalla, S. Roger, U. Kammann, M. Hecker, H. Schüttrumpf, A. Schäffer, and H. Hollert. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.

- (93) “Multi-species Comparison of the Mechanism of Biotransformation of MeO-BDEs to OH-BDEs in fish”. With: M. Hecker, F.Y. Liu, S.B. Wiseman, Y. Wan, J. Doering, and M.H.W. Lam. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (94) “Defining the Transcriptome of the Fathead Minnow Liver using High-throughput Sequencing: Effects of Chemical and Environmental Stressor”. With: S.B. Wiseman, Y. He, M. Hecker, and P.D. Jones. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (95) “Hydroxylated and Methoxylated Brominated Diphenyl Ethers: Natural Products or Anthropogenic Contaminants?” With: X.Y. Wei, and R.S.S. Wu. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (96) “Estrogenicity of 75 European Waste Water Effluents Evaluated by In Vitro Assay” With: B.J. Jarosova, R. Loos, B. Gawlik, and L. Bláha. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (97) “Endocrine Disrupting Effects of OSPW and Ozonated OSPW on Sex Steroid Synthesis and Signalling in Fathead Minnows” With: Y. He, S.B. Wiseman, M. Hecker, P.D. Jones, L.A. Perez, M.G. El-Din, A. Moustafa, and J.W. Martin. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (98) “Seasonal Variation of Specific Toxic Effects of Organic Air Pollutants from Year-long Sampling Campaign”. With: A. Érseková, J. Novak, and J. Klanova. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (99) “Photo-transformation of 2,3,7,8-TCDD in Presence of Natural Organic Matter Studied by In Vitro Bioassay.” With: M. Bittner, P. Macíková and L. Bláha. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (100) “Urinary Bromophenols Phase II Conjugates: a Novel Human Exposure Biomarker for PBDEs” With: H.W. Lam, K.L. Ho, B.M.W. Fong, Y. Wan, S. Tam, and K.S.Y. Leung. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (101) “Chemical Synthesis, Characterization and Analytical Method Development Bromophenols Phase II Conjugates as Human Exposure Biomarker for PBDEs”. With: K.L. Ho, Y. Wan, M.B. Murphy, K.S.Y. Leung, and M.H.W. Lam To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (102) “Health of and Contaminants in Fishes from the Slave/Athabasca River System, Canada, Relative to Oil Sands Extraction Activities”. With: P. D. Jones, E.H. Ohiozebau, A.H. Hill, B.T. Tendler, P.H. Hodson, E.K. Kelly, J.S. Short , and G.C. Codling. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.

- (103) “Specific Toxic Effects of Six Size-Fractions of PM₁₀ from Urban Localities”. J. Novak, A. Ersekova, and J. Klanova. To: Annual meeting and World Congress, May 20-24, 2012, Berlin, Germany.
- (104) “Reconstructing Environmental Trends in Potable Lakes and Reservoirs: The Paleoecotoxicology Toolbox”. With: B. Lucas, T. Tse, K. Liber, P.D. Jones, H.S. Wheeler, L.E. Doig. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (105) “Can flood events affect rainbow trout? The biomarker-cascade after exposure to PAHs in sediment suspension?” With: M. Brinkman, S. Hudjetz, M. Hennig, J. Kuckelkorn, C. Cofalla, S. Lorke, U. Kammann, M. Hecker, H. Schuttrumpf, A. Schaffer, H. Hollert. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (106) “Bioactive Compounds from Cyanobacteria as Potential Endocrine Disruptors in Aquatic Environments.” With: E. Sychrova, K. Novakova, O. Adamovsky, T. Prochazkova, K. Hilscherova. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (107) “Identification of Toxic Constituents of the Dissolved Organic Fraction of Oil Sands Process Affected Water Using Bioassay Directed Fractionation.” With: S.B. Wiseman, R. Mankidy, Y. He, H. Alharbi, A. dos Santos Pereira, J.W. Martin. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (108) “The Endocrine Disruptive Potential of Phytoplankton Exudates.” With: A. Jonas, S. Scholz, K. Novakova, E. Fetter, E. Sychrova, J. Kohoutek, J. Ortmann, K. Hilscherova. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (109) “Characterization of the Toxic Constituents of Oil Sands Process Affected Water by Orbitrap-MS.” With: A. dos Santos Pereira, S.B. Wiseman, R. Mankidy, Y. He, H. Alharbi, J.W. Martin. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (110) “Transcriptomic effects of Exposure to 17 alpha-ethynylestradiol During Sexual Differentiation on Genetic Male *Xenopus laevis*.” With: M. Hecker, A. Tompsett-Higley, E.B. Higley, S.B. Wiseman. To: SETAC Europe 23rd Annual Meeting, May 12-16, 2013, Glasgow, Scotland.
- (111) “Predicting the sensitivity of endangered sturgeons to dioxin-like compounds: Molecular investigation into the aryl hydrocarbon receptor pathway” With: J.A. Doering, S.B. Wiseman, R. Farmahin, S. Beitel, S. Kennedy, J.P. Giesy, M. Hecker. To: 24th Annual SETAC Europe Meeting, May 11-15, 2014, Basel Switzerland.
- (112) “Transcriptional responses of white sturgeon (*Acipenser transmontanus*) following exposure to a model dioxin-like compound” With: J.A. Doering, S.B. Wiseman, S.

Tang, S. Beitel, S. Patterson, Bryanna Eisner, J.P. Giesy, M. Hecker. To: 24th Annual SETAC Europe Meeting, May 11-15, 2014, Basel Switzerland.

- (113) “PBT classification under EC 1107/2009: Practical issues and a case example of chlorpyrifos. With K.R. Solomon, D. Mackay, N.N. Poletica and J. Anderson. To: 24th Annual SETAC Europe Meeting, May 11-15, 2014, Basel Switzerland.
- (114) “An updated version of H295R steroidogenesis system to assess chemical induced effects--- Integration of genes knockdown cell model, RNA-amplicon sequencing and LC-MS/MS quantification.” With: X. Pu, X. Zhang and M. Hecker. To: 24th Annual SETAC Europe Meeting, May 11-15, 2014, Basel Switzerland.
- (115) “Estrogenic responses induced by extracts from phytoplankton species.” With: E. Sychrova, A. Viteckova Wuenschova, J. Dansova, J. Kohoutek, O. Adamovsky, and K. Hilscherova. To: 24th Annual SETAC Europe Meeting, May 11-15, 2014, Basel Switzerland.
- (116) “Effect of humic acids as flushing agent on amount of dibenz[a,h]anthracene in soil leachate”. With M. Bittner and K. Hilscherova. To: 24th Annual SETAC Europe Meeting, May 11-15, 2014, Basel Switzerland.
- (117) “Aquatic Impact Assessment of Municipal Effluents (AIME): A Toolbox Approach”. With: M. Hecker, T. Bagatim, G. Codling, S. Hanson, N. Hogan, A. Hontela, P. Jones, H. Peng, B. Sarauer, K. Steeves, S. Wiseman. To: 25th Annual meeting, May 4-8, 2015, Barcelona, Spain.
- (118) “Identification and Toxicity Assessment of Classes of Compounds Contributing to the Acute Toxicity of Oil Sands Process Affected Water.” With: G. Morandi, S. Wiseman, K. Zhang, A. dos Santos Pereira, and J.W. Martin. To: 25th Annual meeting, May 4-8, 2015, Barcelona, Spain.
- (119) “Emerging Contaminants of Urban Origin: Sources, Sampling, Analytical Issues and Remediation Techniques” With: G. Codling, H.-D. Yuan, P.D. Jones and M. Hecker. To: 25th Annual meeting, May 4-8, 2015, Barcelona, Spain.
- (120) “Altered Reproductive Capacity of Japanese Medaka Exposed to Maternally Transferred TBCO. With: S. Wiseman, To: 25th Annual meeting, May 4-8, 2015, Barcelona, Spain.
- (121) “Detection, Identification and Quantification of Hydroxylated Isomers of Bis(2ethyl-hexyl)-tetraaromophthalate. With: D. Saunders. To: 25th Annual meeting, May 4-8, 2015, Barcelona, Spain.
- (122) “Occurrence and Availability of PACs and Total AhR Agonists in Contaminated Soils—Combining in vitro Reporter Gene Assay and Chemical Analyses with Passive Sampling and Column Leaching”. With: M. Larsson, M. Lam, P. van Hees, and M. Engwall. To: 27th Annual meeting, 13-17, 2018, Rome, Italy.

- (123) “New Mass Spectrometry Techniques for the Measurement of Persistent Organic Pollutants”. With: P. D. Jones. To: 27th Annual meeting, 13-17, 2018, Rome, Italy.
- * SETAC-Europe, Russian Division: (2)**
- (1) “Methods of Estimating the Ecological Risk of Dioxin-Like Activities in Sediments to Wildlife”. With: A. Blankenship and K. Kannan. To: 1st Annual meeting, June 14-17, 1998, Saint Petersburg, Russia. Invited, Plenary Keynote Address.
- (2) “Butyltins in Fishes of the Southern Baltic Sea “. With: C. Duda, K. Senthikumar, D. Villeneuve, K. Kannan and J. Falandysz. To: 1st Annual meeting, June 14-17, 1998, Saint Petersburg, Russia.
- * SETAC-Europe, German Language Division: (2)**
- (1) “Estrogens Potential Organischer Extracts van Liessgewasser Sedimenten”. To: Annual meeting, October 6-8, 2004, Aachen, Germany.
- (2) “Teratogenetic and genotoxic evaluation of several perfluorinated chemicals (PFCs)”. With: S. Jernbro, P. Soares-Rocha, S. Keiter, D. Skutlarek, H. Färber, J. P. Giesy, P. D. Jones, H. Hollert & M. Engwall. To: Annual meeting, September 3-5, Landau, Germany.
- * SETAC-Europe, United Kingdom Division: (1)**
- (1) “Endocrine Disruptor Mechanisms: Beyond Receptor Binding”. To Annual meeting, September 8-10, 2003, Aberdeen, Scotland. *Invited Plenary Keynote.*
- * SETAC-Africa: (3)**
- (1) “Comparing instrument quantification of PAHs in sediment with H4IIE-luc reporter gene bioassay”. With: W. Pheiffer, R. Pieters, S. Horn, L. Quinn, H. Bouwman and N. Smit.. To: Annual meeting, October 3-5, Langebaan, South Africa.
- (2) “Distinguishing between persistent and non-persistent aryl hydrocarbon ligands in South African harbour sediment”. With: R. Pieters, N. Vogt, P. Holtzhausen and B. Newman. To: Annual meeting, October 3-5, Langebaan, South Africa.
- (3) “Investigating possible risks of crop applied herbicide mixtures using in vitro assays.” With: S. Horn, R. Pieters and T. Bohn. To: Annual meeting, October 3-5, Langebaan, South Africa.
- * SETAC-Asia-Pacific: (14)**
- (1) “A Trophic Level Approach to Exposure Assessment of a PCB Contaminated Site” With: A. M. Neigh, M.A. MacCarroll, M.J. Zwiernik, C.A. Ruppert, P.W. Bradley,

- D.P. Kay, C.S. Park, A.L. Blankenship and R. R. Holem. To: Annual meeting, September 28-October 1, 2003, Christchurch, New Zealand.
- (2) “Binding of PFOS and Related Perfluorinated Chemicals to Serum Proteins”. With: P.D. Jones, Wenyue Hu, Wim De Coen and J.L. Newsted. To: Annual meeting, September 28-October 1, 2003, Christchurch, New Zealand.
 - (3) “Principal Components Analysis of Dioxins from Rocky Mountain Arsenal and Denver, Co.”. To: Annual meeting, September 28-October 1, 2003, Christchurch, New Zealand.
 - (4) “Measuring and Monitoring POPs in the Context of Risk Assessment”. With: R. Wu, A. Chan, D. W.T. Au, P. Lam and B. Richardson. To: Society of Environmental Toxicology and Chemistry (SETAC) 5th World Congress, August 3-7, 2008, Sydney, Australia. ***Invited***
 - (5) “Simultaneous Determination of Five Classes of Steroid Hormone Profiles in Beijing Rivers. With: H. Chang and I. Hu.”. To: Society of Environmental Toxicology and Chemistry (SETAC) 5th World Congress, August 3-7, 2008, Sydney, Australia.
 - (6) “Trophodynamics of Polybrominated Diphenyl Ethers in the Marine Food Web of Bohai Bay, North China”. With: Y. Wan, J. Hu, K. Zhang, L. An, P. Jones. To: Society of Environmental Toxicology and Chemistry (SETAC) 5th World Congress, August 3-7, 2008, Sydney, Australia.
 - (7) “Atrazine and Amphibians: Reproductive Effects and Risks”. With: K. Solomon, J. Carr, L. Du Preez, R. Kendall, E. Smith and G. van der Kraak. To: Society of Environmental Toxicology and Chemistry (SETAC) 5th World Congress, August 3-7, 2008, Sydney, Australia.
 - (8) “Development of Rapid Screening Methods for Dioxin-like Compounds Using a Reporter Gene Assay”. With: H-J. Kim, K-T. Lee, J-S. Lee, J-H. Lee and C-H. Lee. To: Society of Environmental Toxicology and Chemistry (SETAC) 5th World Congress, August 3-7, 2008, Sydney, Australia.
 - (9) “Estrogenic effects of sulfathiazole, oxytetracycline, and chlortetracycline in the human adrenocarcinoma (H295R) cell line mediated by disruption in steroidogenic pathways.” With: K. Ji, S. Park, J.S. Khim, E.H. Jo, K. Choi, X. Zhang, and K. Choi. To: Society of Environmental Toxicology and Chemistry Asia Pacific, Annual Meeting, June 4-7, 2010, Guangzhou, China.
 - (10) “Ketoconazole increases the estrogenic potential of ibuprofen exposure in the human adrenocarcinoma (H295R) cell line”. With: K. Ji, S. Park, J.S. Khim, X. Zhang, and K. Choi. To: Society of Environmental Toxicology and Chemistry Asia Pacific, Annual Meeting, June 4-7, 2010, Guangzhou, China.
 - (11) “Evidence of endocrine disruption and consequences of chronic exposure to ibuprofen in Japanese medaka (*Oryzias latipes*) and waterfleas (*Daphnia magna* and *Moina*

macrocopa)”. With: S. Han, J.K. Kim, K.H. Ji, S.M. Kim, B.W. Ahn, Y.L. Kho, K.H. Choi, J.S. Kim and X. Zhang. To: Society of Environmental Toxicology and Chemistry Asia Pacific, Annual Meeting, June 4-7, 2010, Guangzhou, China.

- (12) “Mechanistic Evaluation of the Effects of Environmental Pharmaceuticals”. With: X. Zhang and M. Hecker. To: Society of Environmental Toxicology and Chemistry Asia Pacific, Annual Meeting, June 4-7, 2010, Guangzhou, China.
- (13) “Assessment of Risk of PCDD/Fs in Marine and Freshwater Fishes Cultured in Pearl River Delta, China”. With: X. Wei, K.S. Leung, M.H. Wong, Z.W. Cai and K.C. Wong. To: Society of Environmental Toxicology and Chemistry Asia Pacific, Annual Meeting, June 4-7, 2010, Guangzhou, China.
- (14) “OH-PBDE and MeO-PBDE’s: Methods, Sources and Consequences”. With: Y. Wan, S. B. Wiseman, X. W. Zhang, H. Chang, M. Hecker, P. D. Jones, M. H.W. Lam, K. Choi, S. Kim, K. Ji, J. S. Khim, S. Park, S. Park, J. Park. To: Society of Environmental Toxicology and Chemistry Asia Pacific, Annual Meeting, June 4-7, 2010, Guangzhou, China. ***Invited, Plenary Keynote***

* **SETAC-Latin America: (1)**

“Toxicological Evaluation of Perfluorooctanesulfonate (PFOS) in the Environment: Anatomy of an Environmental Issue”. To: Society of Environmental Toxicology and Chemistry (SETAC) Latin American Section. Annual Meeting, September 7-10, Buenos Aires, Argentina. ***Invited, Plenary Keynote***

* **SETAC Ohio Valley Regional Chapter: (5)**

- (1) “Assessment of belted kingfisher (*Ceryle alcyon*) dietary exposure to PCDDs and PCDFs in the Tittabawassee River,”. With: E.M. Koppell, R.M. Seston, M. J. Zwiernik, J.N. Moore, D.L. Tazelaar, H.L. Wong, P.W. Bradley, T.B. Fredricks, S.J. Coefield and P.D. Jones. To: 23rd Annual meeting, April 20-21, 2006, Fort Wayne, IN.
- (2) “Application of in situ hybridization to detect CYP19 A1 and A2 gene expression patterns along the HPG-axis at different organizational levels using Japanese Medaka (*Oryzias latipes*)”. With: J.W. Park, A.R. Tompsett, M. Hecker, P.D. Jones, J.L. Newsted. To: 23rd Annual meeting, April 20-21, 2006, Fort Wayne, IN.
- (3) “Human Adrenocarcinoma (H295R) Cells for Rapid In vitro Determination of Effects on Steroidogenesis: Hormone Production”. With: E.B. Higley, M. Hecker, J.L. Newsted, M.B. Murphy, P.D. Jones, R. Wu. To: 23rd Annual meeting, April 20-21, 2006, Fort Wayne, IN.
- (4) “Effects of Pharmaceuticals on gene expression and hormone production in H295R cell line using RTQ-PCR/ELISA”. With: T. Gracia, P.D. Jones, K. Hilscherova, E.K.2, E.B. Higley, and J.L. Newsted. To: 23rd Annual meeting, April 20-21, 2006, Fort Wayne, IN.

- (5) “Comparison on the Toxicity Profile of PFOA and PFOS Using Genomic Data”. With: X. Zhang, L.W.Y. Yeung, K.S. Guruge, W.Y. Hu, P.K. S. Lam and P.D. Jones, L. Y. To: 23rd Annual meeting, April 20-21, 2006, Fort Wayne, IN.

* **SETAC-Prairie-Northern Regional Chapter: (27)**

- (1) “Growth of *Chironomus dilutes* larvae exposed to ozone-treated and untreated oil sands process water”. With: J. Anderson, S. Wiseman, E. Franz , G.M. El-Din, J.W. Martin, P.D. Jones, and K. Liber. To: Annual meeting June 11, 2010, Saskatoon, SK.
- (2) “Characterization of the biological and phenotypic effects of 17 α -ethynylestradiol exposure in *Xenopus laevis*”. With: A.R. Tompsett S. Wiseman, J.P. Giesy, and M. Hecker M. To: Annual meeting June 11, 2010, Saskatoon, SK.
- (3) “Effects of upper Danube River sediments on steroidogenesis using a combination of chemical fractionation and the H295R assay”. With: E. Higley S. Grund, B.T. Seiler, U.L. Varel, W. Brack, T. Schulz, H. Hollert, and M. Hecker. To: Annual meeting June 11, 2010, Saskatoon, SK.
- (4) “Developmental effects of exposure to ozonated and untreated oil sands process water on *C. dilutus* larvae.” With: J. Anderson, S.B. Wiseman, N. Wang, L. Perez, M. Gamal El-Din, J.W. Martin, K. Liber. To: Society of Environmental Toxicology and Chemistry, Annual Prairie Northern Chapter Meeting, June 25, 2011, Winnipeg, MB
- (5) “All Mixed Up: Phenotypic Plasticity in a Genotypic World.” With: A. Tompsett, S.B. Wiseman, E. Higley, M. Hecker. To: Society of Environmental Toxicology and Chemistry, Annual Prairie Northern Chapter Meeting, June 25, 2011, Winnipeg, MB, Canada.
- (6) “Biochemical and Molecular Responses of White Sturgeon (*Acipenser transmontanus*) to an Aryl Hydrocarbon Agonist.” With: J. Doering, S. Beitel, B. Tendler, S.B. Wiseman, M. Hecker. To: Society of Environmental Toxicology and Chemistry, Annual Prairie Northern Chapter Meeting, June 25, 2011, Winnipeg, MB, Canada
- (7) “Effects of Triphenyltin Exposure During the Larval Period in Wood Frogs (*Rana sylvatica*).” With: A. Tompsett, S.B. Wiseman, M. Hecker. To: Society of Environmental Toxicology and Chemistry, Annual Prairie Northern Chapter Meeting, June 25, 2011, Winnipeg, MB, Canada
- (8) “The Mechanism of Biotransformation of 6-MeO-BDE-47 to 6-OH-BDE-47.” With: F. Liu, S.B. Wiseman, Y. Wan, X. Zhang, H. Chang, M. Hecker, P.D. Jones. To: Society of Environmental Toxicology and Chemistry, Annual Prairie Northern Chapter Meeting, June 25, 2011, Winnipeg, MB, Canada.

- (9) “Assessment of the Ecotoxicological Risk of Organophosphorus Pesticides to Honey bees (*Apis mellifera* L.) in Saskatoon, Saskatchewan, Canada”. With: Y. Al Naggar, A. Vogt, G. Codling, E. Naiem, M.M.S. Amal and A. Robertson. To: Society of Environmental Toxicology and Chemistry Prairie Northern Chapter Annual Meeting, June 5-6, 2014. Saskatoon, SK, Canada.
- (10) “Assessing Effects of Dibenzothiophenes and related Compounds on Aryl-hydrocarbon Receptor Antagonism and Embryotoxicity to Fathead Minnow”. With: Y. He, S. Wiseman, R. Mankidy, and H. Alharbi. To: Society of Environmental Toxicology and Chemistry Prairie Northern Chapter Annual Meeting, June 5-6, 2014. Saskatoon, SK, Canada.
- (11) “Assessing the Potential Endocrine Disrupting Effects of Municipal Wastewater Effluents on Fathead Minnow (*Pimephales promelas*) Populations in Wascana Creek and the South Saskatchewan River, Saskatchewan, Canada. S. Hanson, T. Bagatim, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, and M. Hecker. To: Society of Environmental Toxicology and Chemistry Prairie Northern Chapter Annual Meeting, June 5-6, 2014. Saskatoon, SK, Canada.
- (12) “Screening of “Exotic” Chemicals in Swift Current, Saskatchewan, Canada” With: H. Yuan, G. Codling, H. Wheeler, M. Hecker, P.D. Jones. To: 5th Annual SETAC Prairie Northern Chapter Meeting, June 6, 2014, Saskatoon, SK.
- (13) “Assessing risk of exposure to polycyclic aromatic hydrocarbons and other dioxin-like compounds of migratory shorebirds” With: C. Labrarrere, C. Morrissey. To: 5th Annual SETAC Prairie Northern Chapter Meeting, June 6, 2014, Saskatoon, SK.
- (14) “A paleolimnological investigation of phytoplankton trends in a narrow river-valley reservoir” With: T.J. Tse, L.E. Doig, Z. Quinones-Rivera, P.R. Leavitt, G. Codling, B.T. Lucas, K. Liber, H. Wheeler, P.D. Jones. To: 5th Annual SETAC Prairie Northern Chapter Meeting, June 6, 2014, Saskatoon, SK.
- (15) “Novel Brominated Flame Retardants Affect Fecundity and Transcript Profiles of the HPGL-axis in Japanese Medaka” With: D.M.V. Saunders, S. Wiseman, M. Podaima, G. Codling. To: 5th Annual SETAC Prairie Northern Chapter Meeting, June 6, 2014, Saskatoon, SK.
- (16) “Predicting the Sensitivity of Endangered Sturgeons to Dioxin-like Compounds: Molecular Investigation into the AhR Pathway” With: J. Doering, S. Wiseman, R. Farmahin, S. Beitel, S. Kennedy, and M. Hecker. To: 5th Annual SETAC Prairie Northern Chapter Meeting, June 6, 2014, Saskatoon, SK.
- (17) “Bioassay-directed characterization of endocrine disrupting potencies of municipal effluents in Canada” With: T. Bagatim, S. Hanson, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P. Jones, L. Bragg, D. Hadi, M.R. Servos, C. Gauthier, M. Hecker. To: 5th Annual SETAC Prairie Northern Chapter Meeting, June 6, 2014, Saskatoon, SK.
- (18) “Predicting the Acute Toxicity of Oil Sands Process Affected Water to embryos of Fathead minnow (*Pimephales promelas*)”. With: G. Morandi, K. Zhang, S. Wiseman,

A. Pereira, and J. Martin. To: 6th Annual SETAC Prairie Northern Chapter Meeting, June 5, 2015.

- (19) “Determination of acute and sub-chronic toxicity of emerging contaminants in early life stages of rainbow trout (*Oncorhynchus mykiss*)”. With: D. Schultz, S. Tang, S. Beitel, Eisner, J. Alcaraz, D. Janz, S. Wiseman, P.D. Jones, and M. Hecker. To: 7th Annual SETAC Prairie Northern Chapter Meeting, June 17, 2016, Winnipeg, MN, Canada.
- (20) “Untargeted screening of brominated disinfection by-products in drinking water by DIPIC-frag method”. With: C. Watts, H. Peng, P.D. Jones, and S. Wiseman. To: 7th Annual SETAC Prairie Northern Chapter Meeting, June 17, 2016, Winnipeg, MN, Canada.
- (21) “Reproductive health assessment of fathead minnow (*Pimephales promelas*) populations inhabiting an effluent-dominated stream, Wascana Creek, SK, Canada”. With: H. Hanson, T. Bagatim, K. Steeves, S. Wiseman, N. Hogan, A. Hontela, P.D. Jones and M. Hecker. To: 7th Annual SETAC Prairie Northern Chapter Meeting, June 17, 2016, Winnipeg, MN, Canada.
- (22) “Assessing effects of dissolved organic chemicals in OSPW by use of the fathead minnow reproductive bioassay”. With: G.D. Morandi, S.B. Wiseman, C. Sun, and J.W. Martin. To: 7th Annual SETAC Prairie Northern Chapter Meeting. June 17, 2016, , Winnipeg, MB, Canada.
- (23) “Elucidating Mechanisms of Toxic Action of Dissolved Organic Chemicals in Oil Sands Process Affected Water (OSPW)” With: G. Morandi, S. Wiseman, M. Guan, X. Zhang, J. Martin. ker. To: 8th Annual Meeting, June 15-16, 2017, Saskatoon SK.
- (24) “Occurrence and In Vitro Toxicity of Disinfection By-Products in Saskatchewan Water Treatment Plants” With: T. Watts, H. Peng, P.D. Jones. To: 8th Annual Meeting, June 15-16, 2017, Saskatoon SK.
- (25) “Antimicrobial Properties of Fluoxetine, What Might This Mean for Gut Microbiota” With: A. Weber, M. Sniatynski, J. Rubin, J. Challis, A. DeBofsky. To: 10th Annual Meeting, June 10-11, 2019, Lethbridge, AB.
- (26) “Gut Microbiota in Fish from the North Saskatchewan River Following an Oil Spill” With: A. DeBofsky, Y. Xie, P. Jones, T. Jardine. To: 10th Annual Meeting, June 10-11, 2019, Lethbridge, AB.
- (27) “Occurrence of Growth Promoters in Beef Cattle Operations and Transport in Simulated Runoff from Associated Environments” With: J. Challis, J. Cantin, A. Curtis, S. Sura, K. Shade, T. McAllister, P. Jones, F. Larney. To: 10th Annual Meeting, June 10-11, 2019, Lethbridge, AB.

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SETAC-Young Environmental Scientist (YES) (1)

- (1) "Modeling Enterohepatic Circulation of Benzo(a)pyrene in vitro using the rainbow trout (*Oncorhynchus mykiss*) intestinal cell line RTgutGC". By: A. DeBofsky, M. Brinkmann, M. Hecker and J.P. Giesy. To: SETAC Young Environmental Scientist Meeting, March 25-29, Madison, WS, USA.

* **Society of Toxicology: (16)**

- (1) "Photo-enhanced Toxicity of Environmental Contaminants in the Hydrosphere." Symposium on the Source and Fate of Toxic Substances in Water. 10th Annual Meeting, Washington, D. C., February 23-27, 1987. *Invited*.
- (2) "A Multi-generational Study of the Effects of Consumption of Great Lakes Fish on Mink Reproduction". With: J.C. Restum, R.J. Aulerich, W. Helferich and S.J. Bursian. 17th Annual Meeting, Houston, TX (1994), *The Toxicologist* 14:415.
- (3) "Recombinant Cell Bioassay Systems for Detection of Dioxin-like Chemicals and Analysis of Species Differences in Dioxin Responsiveness. 17th Annual Meeting, Houston, TX (1994), *The Toxicologist* 14:268.
- (4) "Reproductive Impairment and Induction of Alkaline-Labile Phosphate, a Biomarker of Estrogen Exposure in Fathead Minnows (*Pimephales promelas*) Exposed to Waterborn Estradiol". With: V.J. Kramer, S. Miles-Richardson and S. Pierens. 20th Annual Meeting, Cincinnati OH (1997), *The Toxicologist* 17:27.
- (5) "Use of a Recombinant Human Breast Cancer Cell Line, MVLN, to Screen for Estrogenic Activity among Structurally-Related Alkylphenolic Compounds'. With: Blankenship, A.L., S.A. Villalobos and R. Balcomb. 38th Annual Meeting, March 14-18, 1999, New Orleans, LA.
- (6) "In Vitro Vitellogenin Production by Carp (*Cyprinus carpio*) Hepatocytes as a Tool for Determining the Estrogenic Activity of Xenobiotics". With: M. van den Berg, J.M.W. Smeets, J. Komen, K.M. Nichols, and W. Seinen. 38th Annual Meeting, March 14-18, 1999, New Orleans, LA.
- (7) "TCDD and Other Ah-Receptor Agonists are Potent Anti-Estrogens in Cultured Carp (*Cyprinus carpio*) Hepatocytes". With: J.M.W. Smeets, J. Komen, K.M. Nichols, N.E. Kaminski and M. van den Berg. 38th Annual Meeting, March 14-18, 1999, New Orleans, LA.
- (8) "Use of H4LLE Bioassays to Estimate the Contribution of Halogenated Environmental Chemicals to Toxic Potencies in Fish Extracts from the Lower Fox River, Wisconsin." With: K.T. Connor, T.J. Iannuzzi, D.F. Ludwig, M.M. Moore and S.H. Safe. 38th Annual Meeting, March 14-18, 1999, New Orleans, LA.
- (9) "Toxic Responses of Medaka (d-rR Strain) to Polychlorinated Naphthalene (PCN) Mixtures after Embryonic Exposure by *in ovo* Nano-injection: A Partial Life Cycle Assessment". With: S.A. Villalobos, D.M. Papoulias, J. Meadows, A.L. Blankenship,

S.D. Pastva, K. Kannan and D.E. Tillitt. 38th Annual Meeting, March 14-18, 1999, New Orleans, L.A.

- (10) “Cross-Talk Between the Aryl Hydrocarbon Receptor (AhR) and Hypoxia Signaling Pathways”. With: M. Nie and A.L. Blankenship. 38th Annual Meeting, March 14-18, 1999, New Orleans, L.A.
- (11) “Cloning of *Zona Radiata* Proteins From Rainbow Trout (*Oncorhynchus mykiss*): A Marker for Investigating Estrogenic Endocrine Modulators in Fish”. With: T. Celius, J. B. Matthews, and T. R. Zacharewski. To: 39th Annual meeting, March, 2000, Philadelphia, PA.
- (12) “Comparisons Among Perfluorinated Compounds of Effects on Gap-Junction Intercellular Communication.” With: W.-Y. Hu, P.D. Jones, B.L. Upham and J.E. Troscio. To: 41st Annual Meeting, March, 2002, Nashville, TN.
- (13) “Does Binding to Albumin Modulate The Biological Effects of Perfluorooctane Sulfonic Acid?”. With: P.D. Jones, W.-Y. Hu, and W. DeCoen. To: 41st Annual Meeting, March, 2002, Nashville, TN.
- (14) “Identification and Characterization of Genes Responsive to Perfluorooctane Sulfonic Acid Exposure During Exposure Using Differential Display and Gene Chips”. With: W.-Y. Hu, P.D. Jones, C. Lau and R.G. Hanson. To: 41st Annual Meeting, March, 2002, Nashville, TN.
- (15) “Profiling Gene Expression in Human H295R Adrenocortical Carcinoma Cells and Rat Testes to Identify Pathways of Toxicity for Conazole Fungicides”. With: H. Re, J. E. Schmid, J. Retief, Y. Turpaz, X. Zhang, P. D. Jones, J. L. Newsted, J. P. Giesy, D. C. Wolf, C. R. Wood, W. Bao and D. J. Dix. To: 44th Annual Meeting, March 6-10, 2005, New Orleans.
- (16) “Pharmacokinetic Evaluation of Exposure to Ecologically Relevant Concentrations of 2,3,7,8-TCDF and 2,3,4,7,8-PeCDF in mink (*Mustel vison*)”. With: M. Zwiernik, S. Bursian, L.L. Aylward, D. Kay, J. Moore, J.C. Rowlands, K. Woodburn, J.S. Khim and R. Budinski. To: 47th Annual Meeting, March 16-20, 2008, Seattle, WA.

* **Society of Toxicology; Michigan Regional Chapter: (2)**

- (1) "Environmental Toxicology of the Fish and Wildlife of the Great Lakes". Annual Meeting, Warren, Michigan, November, 1989.
- (2) “Screening for Endocrine Disruptors—Beyond Receptor Binding”. Annual Meeting, East Lansing, November, **2005 Invited Plenary Keynote**

* **Teratology Society: (1)**

- (1) "Concentrations of Polychloro-diaromatic Hydrocarbons in and Effects on Wildlife of the North American Great Lakes". 36th Annual Meeting, June 22-27, 1996, Keystone CO. *Invited Keynote*
- * **Water Pollution Control Federation: (1)**
- (1) "Toxicity Testing to Meet NPDES Permit Requirements." Section 7 Regional Chapter Meeting, February, 1991.
- * **Wildlife Disease Association: (2)**
- (1) "Use of Bald Eagles to Monitor Ecosystem Health in the Great Lakes Basin". With: W.W. Bowerman, D.A. Best and T.J. Kubiak. 42nd Annual Conf., Guelph, Ontario, 1993.
- (2) "Albatross As Sentinels of Organochlorine Pollution in the North Pacific Ocean". With: M. Rolland, T. Colborn, P.D. Jones, C.L. Summer, H. Auman, D. Verbrugge and J.P. Ludwig. 43rd Annual Conf. 1995, East Lansing, Michigan.
- * **Wildlife Disease Association: (1)**
- (1) "The distribution of contaminants among tissues in mink". With: Tansy, C.L., W.W. Bowerman, O.E. Baker, K. Kannan, S. Masunaga, and K. Senthilkumar. To: Annual Meeting, The Wildlife Society, November 2001, Reno, Nevada.

SYMPOSIA AND WORKSHOPS: (525)

- (1) "Effects of Dissolved Organics Isolated from Surface Waters, on Availability of ^{241}Am to Algae and Bacteria." With: D. Paine. To: *Environmental Chemistry and Cycling Processes*, the Second in a Series of Mineral Cycling Symposia; Augusta, Georgia. 1976.
- (2) "Cadmium Dynamics in Terrestrial Food Webs of a Coal fly Ash Basin." With: S. P. Skinner and J. B. Gentry. To: *Environmental Chemistry and Cycling Processes, the Second in a Series of Mineral Cycling Symposia*, Augusta, Georgia. 1976.
- (3) "Effect of Naturally Occurring Aquatic Organics on Pu Uptake by Algae and Bacteria." To: *Dynamics of Transuranics in Terrestrial and Aquatic Environments*. Nevada Applied Ecology Group, U. S. Energy Research and Development Administration, Gatlinburg, TN. 1976.
- (4) "Cadmium Partitioning and Related Effects in Parasitized and Non-parasitized Mosquitofish (*Gambusia affinis* - *Poeciliidae*)." With: D. H. Smith. To: *Energy and Environmental Stress in Aquatic Systems*, Augusta, GA. Nov. 2-4, 1977.
- (5) "Effects of Chronic Cadmium Exposure on Crayfish Survival, Growth and Tolerance to Elevated Temperatures." To: *Energy and Environmental Stress in Aquatic Systems*. With: J. H. Thorp and S. A. Wineriter. Augusta, GA. Nov. 2-4, 1977.
- (6) A Relative Mobilization of Zinc, Cerium and Americium from Sediment in an Aquatic Microcosm." With: R. A. Geiger. To: *Microcosms in Ecological Research*, Augusta, GA. 1978.
- (7) "The Realities of Utilizing (large-scale) Microcosms in Assessing the Fates and Effects of Potentially Hazardous Trace Contaminants." With: J. W. Bowling, R. L. Knight and H. J. Kania. To: *Microcosms in Ecological Research*, Augusta, GA. 1978.
- (8) "Ecological Studies on the SRP." To: American Society of Metals, Augusta, GA. 1978. ***Invited.***
- (9) "Trace Metal Cycling in a Swamp System Receiving Coal Ash Effluent." With: D. W. Evans. To: *International Congress for Energy and the Ecosystem*. Grand Forks, ND. June, 1.
- (10) "Disposition of Benzo(a)pyrene in Aquatic Systems Components: Periphyton, Chironomids, *Daphnia* and Fish." To: *5th International Symposium on Polynuclear Aromatic Hydrocarbons*, October 28-30 1980, Battelle Columbus Laboratories, Columbus, Ohio.
- (11) "Development and Validation of Techniques for the Extraction and Quantitation of Anthracene in Sediment." With: S. D. Haddock and P. F. Landrum. To: *11th Annual Symposium on the Analytical Chemistry of Pollutants*, Jekyll Island, GA. May, 1981.

- (12) "Copper Speciation in Soft, Acid Humic Waters: Effects on Bioaccumulation by and Toxicity to *Simocephalus serrulatus* (Daphnidae)." With: A. Newell and G. J. Leversee. To: *Biological Availability of Trace Metals. Chemical Estimation, Ecological and Health Implications*. 21st Hanford Life Sciences Symposium, Richland, WA. October, 1981. ***Invited.***
- (13) "Biological Control of Trace Metal Equilibria in Surface Waters. To: NATO Workshop on Trace Element Speciation in Superficial Waters and its Ecological Implications," Nervi, Italy. November, 1981. ***Invited.***
- (14) "Conditional Stability Constants of Trace Metals and Naturally-occurring Humic Material: Their Application in Equilibrium Models and Verifications With: Field Data." With: J. J. Alberts. To: Symposium on Terrestrial and Aquatic Humic Materials, University of North Carolina, Chapel Hill, NC. November, 1981.
- (15) "Trace Metal Speciation: Simulations, Field Observations and Biological Effects. To: Effects of Trace Elements on Aquatic Ecosystems," Carolina Power and Light, Electric Power Research Institute, Raleigh, NC. March, 1982. ***Invited.***
- (16) "Biochemical Indicators of Chronic Stress in Aquatic Organisms." To: Michigan State University Pesticide Research Center First Annual Conference. June, 1981.
- (17) "Trace Metal Speciation: Simulations, Field Observations and Biological Effects." To: Michigan State University Pesticide Research Center Annual Conference. June, 1982.
- (18) "International Conference on Heavy Metals in the Environment." Heidelberg, Germany. September, 1983.
- (19) "Replicability of Aquatic Multispecies Test Systems." To: *Symposium on Multispecies Toxicity Testing*. SETAC/ESA. Blacksburg, VA. May, 1983. ***Invited.***
- (20) "Monitoring Environmental Effects - Molecules to Ecosystems." To: *Symposium on Human and Environmental Toxicology*. Memphis, Tennessee. May, 1983. ***Invited.***
- (21) "Use of Microcosms for Hazard Identification- *Risk Assessment in Aquatic Ecology*. To: Electric Power Research Institute, Albuquerque, New Mexico. April, 1983. ***Invited.***
- (22) *Workshop on Determining the Field Applicability of Environmental Assessment Methods*. U. S. E. P. A. Warrenton, Virginia. March, 1982. ***Invited.***
- (23) North Central Workshop on Acid Deposition, National Acid Deposition Program. La Crosse, Wisconsin. October, 1983. ***Invited Delegate.***
- (24) "Photoinduced Toxicity of Environmental Contaminants in Aquatic Organisms." With: J. T. Oris, P. M. Allred, P. F. Landrum and D. W. Grant. To: Miami International Symposium on the Biosphere, April, 1984.

- (25) "Photoinduced toxicity of Hydrocarbons to Aquatic Organisms". With: J. T. Oris, P. M. Allred, and P. F. Landrum. To: *International Conference on Oil in Freshwater: Chemistry, Biology and Technology*. Edmonton, Alberta. October, 1985. ***Invited***.
- (26) "Current Status of Metal Speciation Studies." To: International Symposium on Metals Speciation, Separation and Recovery." Chicago, Illinois. July 27-August 1, 1986. ***Invited***.
- (27) "Biochemical Indicators of Stress in Aquatic Organisms: Utility for Great Lakes Research." To: International Joint Commission Special Symposium on Trace Contaminants in the Great Lakes. Co-sponsored by Ecological Society of America and American Society of Limnology and Oceanography, Minneapolis, MN. June, 1985.
- (28) "Monitoring in Areas of Concern-Sediments Group." To: International Joint Commission. Burlington, Ontario, Canada, October, 1985.
- (29) "Protocol for Assessing Toxic Sediments." To: International Joint Commission. Detroit, MI. November, 1985.
- (30) "Variation in Quantification of Concentrations of Toxic Chemicals in Fish from the Laurentian Great Lakes: The Good, the Bad and the Manageable." To: World Conference on Large Lakes, Mackinaw Island, MI. May, 1986. ***Invited***.
- (31) Aquatic Risk Assessment Methodology Workshop. National Agricultural Chemicals Association. Washington, D. C. October, 1986. ***Invited***.
- (32) "Biomonitoring of the Aquatic Environment". To: US Fish and Wildlife Service. Ann Arbor, MI. February, 1987. ***Invited***.
- (33) International Conference on Changing Perspectives in Agro-Chemicals: Isotopic Techniques for the Study of Food and Environmental Implications. FAO/IAEA, Neuherberg, Germany. November, 1987.
- (34) "Recent Developments and Intercomparisons of Bioassay Techniques, Both Acute and Chronic". To: International Conference on Environmental Bioassay Techniques and Their Application. Lancaster, UK. July, 1988. ***Invited Plenary Lecture***.
- (35) "Conditional Stability Constants and Binding Capacity for Copper (II) by Ultrafilterable Material Isolated from Surface Waters of Wyoming, USA. To: 1st Internal Conf. Environ. Bioassay Techniques and Their Application. July 11-14th, 1988. Lancaster, England.
- (36) "Effects of Toxic Substances on Great Lakes Birds". Chevron Distinguished Lecture in Environmental Toxicology to University of California at Davis. January, 1989. ***Invited Distinguished Lecture***.
- (37) "Maternal Transfer of Bio-active Polychlorinated Aromatic Hydrocarbons in Spawning Chinook Salmon (*Oncorhynchus tshawytscha*). With: G. T. Ankley and D. E. Tillitt. To: 5th International Symposium on Responses of Marine Organisms to Pollutants, April 12-14, 1989. Plymouth, England.

- (38) "Planar Chlorinated Hydrocarbons (PCHs) in Colonial Fish-eating Water Bird Eggs From the Great Lakes". With: D. E. Tillitt and G. T. Ankley. To: 5th International Symposium on Responses of Marine Organisms to Pollutants, April 12-14, 1989 Plymouth England.
- (39) Evaluating the Risks to Human Health Associated With: Exposure to Toxic Chemicals in the Great Lakes Basin Ecosystem.
- 1) Workshop on Biological Science. April 15-18, 1989. Niagara on the Lake, Ontario. ***Invited Delegate.***
- (40) Guelph-Michigan State University Mini-Symposium on Environmental Toxicology. To: 1st Semi-Annual Meeting, February 12-14, E. Lansing, MI. ***Conference Organizer.***
- (41) Ecoinforma-'89. First International Congress and Exhibition on Environmental Information, Communication and Technology Transfer May 16-19. Bayreuth, Germany. ***Sponsor.***
- (42) Workshop on Fates and Effects of In-Place Pollutants in Aquatic Ecosystems Aug. 28-31, 1989. Pallanza, Italy. Co-organizer. "Sediment Quality Criteria: Bioassessment". With: R. Hoke. ***Invited.***
- (43) Governor's Conference on Water in Michigan: Into the Next Century. March 23-24, 1989. E. Lansing.
- (44) "Utility of QSAR Systems for Predicting Aquatic Toxicities". To: 9th International Conference on Computers in Chemical Research. May 28-June 2, 1989. Riva del Garda, Italy.
- (45) Workshop on Cause-Effect Linkages. To: International Joint Commission/Council of Great Lakes Research Managers, March 28-29, 1989. Chicago, IL. ***Invited Delegate.***
- (46) Guelph-Michigan State University Mini-Symposium on Environmental Toxicology. To: 2nd Semi-Annual Meeting, June 12-13, Guelph, Ontario, Canada. ***Co-Organizer.***
- (47) "Flow Cytometric Analysis of Phytoplankton Assemblages in Lake Ontario". With: W. Gala. To: Lake Ontario Trophic Transfer Workshop I. Canada Center for Inland Waters. June 29, 1989, Burlington, Ontario.
- (48) "Evaluating Risks to Human Health Associated With: Exposure to Toxic Chemicals in the Great Lakes Basin Ecosystem". To: an International Working Conference, Buffalo, New York. October, 1989. ***Invited Delegate.***
- (49) "Workshop on Human Health Impacts of Halogenated Biphenyl and Related Compounds". November 8-9, 1989. Ann Arbor, Michigan. Sponsored by NIH, EPA and ATSDR. ***Invited Delegate.***

- (50) "Strategies for Remedial Actions in Contaminated Aquatic Systems". To: Ecology 89 - International Congress and Exhibition. August 28-31, 1989. Gothenburg, Sweden. ***Invited.***
- (51) "Freshwater Sediment Quality Criteria: Toxicity Bioassessment". With: R. A. Hoke. To: Fates and Effects of In-Place Pollutants in Aquatic Ecosystems. First Pallanza Workshop. Pallanza, Italy. August, 1989.
- (52) "Sediment Toxicity Assessment in the Great Lakes". To: Midwest Pollution Control Biologists Annual Meeting. Sponsored by US EPA, Region V, Chicago, IL. April 1990. ***Invited.***
- (53) "Sediment Quality Criteria for Metals". To: International Conference on Metals in Soils, Plants and Animals. Orlando, FL. April, 1990. ***Invited Keynote Address.***
- (54) "Fate and Bioavailability of Toxicants". To: Physiological and Biochemical Approaches to the Toxicology and Assessment of Environmental Pollution. Utrecht, Netherlands. August, 1990. ***Invited Keynote Address.***
- (55) "Utilization of an *in vitro* Assay to Investigate the Environmental Effects of Planar, Halogenated Hydrocarbons". With: P. D. Jones, D. E. Tillitt, J. L. Newsted, D. A. Verbrugge, N. DeGalan, G. T. Ankley, T. J. Kubiak, D. A. Best, M. E. Ludwig, and J. P. Ludwig. To: Physiological and Biochemical Approaches to the Toxicology and Assessment of Environmental Pollution. Utrecht, Netherlands. August, 1990.
- (56) "Tracking Pollutants: Effects on Great Lakes Fish and Wildlife". To: International Perspectives on Great Lakes Resource Management Issues. East Lansing, Michigan. March, 1990. ***Invited Plenary Address.***
- (57) "International Conference on Issues in Food Safety and Toxicology". East Lansing, Michigan. June, 1990.
- (58) "Assessment of Human Exposure to Chemicals From Superfund Sites". East Lansing, Michigan. June, 1990. ***Delegate.***
- (59) "Use of an *in vitro* Biochemical Assay to Assess Environmental Contamination". With: P. D. Jones, D. Tillitt and G. Ankley. To: International Symposium on Aquatic Ecosystem Health,. Waterloo, Ont., Canada. July, 1990. ***Invited.***
- (60) "Flow Cytometry Techniques to Determine Toxicity of Environmental Samples to Algae". With: R. B. Crawford, W. R. Gala, J. B. Drake and R. A. Hoke. To: International Symposium on Aquatic Ecosystem Health,. Waterloo, Ont., Canada. July, 1990. ***Invited.***
- (61) "Health and Environmental Effects of Chlorinated Aromatics". To: National Institutes of Health Special Colloquium on the Health Effects of Combustion Byproducts. Bethesda, MI. October, 1990. ***Invited Keynote Address, Delegate.***

- (62) "Trends in Concentrations of Halogenated Hydrocarbons in Great Lakes Birds and Their Significance". To: Dioxin-90. Bayreuth, Germany. September, 1990. ***Invited Plenary Keynote Lecture.***
- (63) "Selected Enrichment of Coplanar Polychlorinated Biphenyls in Lake Michigan Chinook Salmon. A Comparison of Calculation Methods". With: L. L. Williams. To: Dioxin-90. Bayreuth, Germany. September, 1990.
- (64) "PCB Concentrations in Plasma of Nestling Bald Eagles from the Great Lakes Basin, North America". With: W. W. Bowerman *et al.* To: Dioxin-90. Bayreuth, Germany. September, 1990.
- (65) "Effects of Planar, Chlorinated Hydrocarbons on Fish, Fish-eating Birds and Furbearers in the Great Lakes Region". To: Workshop on Colonial Waterbirds, 11th Annual Meeting. Orlando, Florida. October, 1990. ***Invited.***
- (66) "Relationships Between Metal Availability and Toxicity of Sediments". To: Workshop on the Geochemical Aspects of Metal Bioavailability. 17th Annual Aquatic Toxicology Symposium. Vancouver, British Columbia. November, 1990. ***Invited.***
- (67) "Effects Assessment of Chemicals in Sediment". To: Organization for Economic Cooperation and Development. Copenhagen, Denmark. May 12-15, 1991. Presented invited lecture entitled "Toxicity Test Methods for Sediments-Freshwater". ***Invited Delegate.***
- (68) "Developing Biological Sediment Criteria". To: Environment Canada, Burlington, Ont. Canada, January 21-24, 1990. ***Invited Delegate.***
- (69) "Methods and Problems in Sediment Toxicity Testing". To: Workshop on Predictive Testing and Biomonitoring: Two Valuable Approaches in Aquatic Toxicology. Valencia, Spain. September 3-6, 1991. ***Invited Instructor.***
- (70) "Contrasting Total PCB Data, H4IIE-EROD Bioassay and Toxic Equivalency Factors Methods for Measuring Actual Toxicity ". With: D. Tillitt. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, Michigan. September 29-October 2, 1991. ***Invited.***
- (71) "Congener-Specific PCB and H4IIE-EROD Bioassay Data on Fishes From Three Michigan Rivers: Relevance to Hydroelectric dam Relicensing and Inland Dwelling Piscivorous Wildlife". With: M. E. Ludwig, P. D. Jones and B. Chisholm. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, Michigan. September 29-October 2, 1991. ***Invited.***
- (72) "H4IIE Bioassay TCDD-EQ in Colonial Waterbird Eggs from the Great Lakes Colonies 1986-1990 as Measured by H4IIE EROD Assay". With: D. E. Tillitt and P. D. Jones. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, Michigan. September 29-October 2, 1991. ***Invited.***

- (73) "Uptake of Toxicity from Great Lakes Fish by Double-Crested Cormorants and Herring Gull Chicks Measured by H4IIE EROD Bioassay and PCB Congeners". With: J. P. Ludwig, M. E. Ludwig, H. J. Auman, P. D. Jones and D. A. Verbrugge. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, Michigan. September 29-October 2, 1991. *Invited*.
- (74) "Reproductive Effects of Feeding Saginaw Bay Source Fish to Ranch Mink". With: S. Heaton, R. Aulerich, S. Burton, D. Tillitt, T. J. Kubiak and J. A. Render. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, MI. Sept. 29-Oct. 2, 1991. *Invited*.
- (75) "Preliminary Analysis of Reproductive Effects From Feeding White Leghorn Chickens Fed Saginaw Bay Source Fish". With: C. Summer, R. Aulerich, S. Bursian, J. A. Render and T. J. Kubiak. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, MI. Sept. 29-Oct. 2, 1991. *Invited*.
- (76) "Bald Eagle Reproductive Impairment Around the Great Lakes: Association With: Organochlorine Contaminants". With: W. W. Bowerman, D. A. Best, T. J. Kubiak, S. Postupalsky and D. Tillitt. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, MI. Sept. 29-Oct. 2, 1991. *Invited*.
- (77) "Panel Discussion: What Species Should be Monitored and What Methods Should be used by Great Lakes Wildlife Researchers to Observe and Quantify Trends in Great Lakes Toxicity?" With: T. J. Kubiak (moderator) D. V. Weseloh, M. Mac, P. Beland, and G. Fox. To: Cause-Effect Linkages II Conference and Biennial Meeting of the International Joint Commission, Traverse City, MI. Sept. 29-Oct. 2, 1991. *Invited*.
- (78) "Microcosm Workshop". Wintergreen, VA. Oct. 6-11, 1991. *Invited Delegate*, Workgroup Leader. -Presentation: Role of Microcosms in testing and regulation of Agricultural Chemicals.
- (79) "Relative Concentrations of Coplanar PCB, Chlorinated Dibenzo-Dioxin (PCDD) and Dibenzo-Furan (PCDF) Congeners in Fish and Wildlife of the North American Great Lakes and Their Relationships With: Observed Effects". With: P. D. Jones, M. Mora, J. L. Newsted, D. A. Verbrugge, R. Aulerich, S. Bursian, C. Summer, J. P. Ludwig, M. J. Ludwig, T. J. Kubiak, D. A. Best, G. T. Ankley, K. B. Lodge, D. E. Tillitt, K. Stromberg and S. Tanabe. To: Dioxin' 91, Research Triangle Park, NC. Sept. 23-27, 1991. *Invited*.
- (80) "The use of TEFS for Understanding the Toxicology of Complex Mixtures of Chlorinated Hydrocarbons in Fish and Wildlife of the Great Lakes". With: P. D. Jones, M. Mora, J. L. Newsted, D. A. Verbrugge, R. Aulerich, S. Bursian, C. Summer, J. P. Ludwig, M. J. Ludwig, T. J. Kubiak, D. A. Best, G. T. Ankley, K. B. Lodge, D. E. Tillitt, K. Stromberg and S. Tanabe. To: Dioxin' 91, Research Triangle Park, NC. Sept. 23-27, 1991. *Invited*.
- (81) "The Influence of Environment Contaminants on Bald Eagle populations in the Laurentian Great Lakes, North America". With: W.W. Bowerman, D.A. Best, M.S. Martell and S. Postupalsky. To: 4th World Conference on Birds of Prey and Owls. Berlin, Germany. May 10-17, 1992.

- (82) "European Workshop on Freshwater Field Tests". Potsdam, Germany. June 25-26, 1992. ***Invited Delegate.***
- (83) "Accumulation of Planar, Synthetic Halogenated Hydrocarbons and their effects on colonial, fish-eating waterbirds of the Great Lakes Region". To: Advances in Toxicology: Today for Tomorrow. Guelph, Ontario Canada. March 21, 1992. ***Invited.***
- (84) "Desirable and necessary attributes for freshwater sediment toxicity tests, and the use of *Hyallela azteca* and *Chironomus tentans* in freshwater sediments. To: Tiered Testing Issues for freshwater and marine sediments, September 16-18, 1992, Washington, D.C. ***Invited.***
- (85) "Evaluation of the suitability of Reductive Dechlorination for the bio-remediation of PCB-contaminated soils and sediments." With: J.F. Quensen,III, J.M. Tiedje, S.A. Boyd and M. Mora. To: Soil Decontamination using Biological Processes, Dec. 6-9, 1992, Karlsruhe, Germany.
- (86) "Workshop on Aquatic Life Criteria for Metals". January 25-29, 1993, Annapolis, MD, US EPA. Reevaluation of water quality criteria for metals. ***Invited Delegate.***

Specific Panels:

- Physiological Mechanisms of Metals Toxicity
- Geochemical Speciation Calculations

- (87) "Effects of Planar, Chlorinated Hydrocarbons on Fish and Wildlife". To: Third International Congress on Toxic Combustion Products, June 14-16, 1993 Cambridge MS. ***Invited Plenary Speaker.***
- (88) "Comparisons and Interactions among pentachlorobiphenyl (PCB) congeners and 2,3,7,8-tetrachloro-*p*-dioxin (TCDD) in an automated ethoxyresorufin O-deethylase bioassay." With: T.A. Butzbaugh and R. Crawford. To: Great Lakes College Chemistry Conference. East Lansing, Michigan, March 13, 1993.
- (89) "Aquatic risk assessment and mitigation dialogue group for pesticides." 1993-1994. To: Sixth meeting to develop risk assessment techniques for pesticides. ***Invited***
- (90) "Techniques for predicting ecosystem risks." To: National workshop on the characterization of risks to humans and the environment, Hull, Quebec, Canada. June 21-23, 1993. ***Invited.***
- (91) "Update on Bald Eagle Research at MSU". To: Wildlife Bio-effects Conference, October 26, 1992, Kalamazoo, Michigan. With: W.W. Bowerman. ***Invited***
- (92) "Aerial Survey of the Great Lakes Shoreline to Determine Potential for Bald Eagle Occupancy". To: Wildlife Bio-effects Conference, Annual meeting, October 26, 1992, Kalamazoo, Michigan. With: A. Bath and W.W. Bowerman. ***Invited***

- (93) "Caffeine Breath Test for Measuring the P4501A1-Activity of Birds". To: Wildlife Bio-effects Conference. Annual meeting, October 26, 1992, Kalamazoo, Michigan. With: L. Lindley. ***Invited***
- (94) "Desirable and Necessary Attributes for Freshwater Sediment Toxicity Tests and the Use of *Chironomus tentans* in Freshwater Sediment". To: Tiered Testing Issues for Freshwater and Marine Sediments. US EPA Office of Water and Office of Research and Development. September 16-18, 1992, Washington, D.C. ***Invited***
- (95) "Techniques for Predicting Ecosystem Risks". To: National Workshop on the Characterization of Risks to Humans and the Environment. June 21-23, 1993, Ottawa, Ontario, Canada. ***Invited, Plenary.***

Session Facilitator-PCBs in the Environment. Case studies.

- (96) "Contaminants in the Great Lakes Ecosystem. To: Third International Congress on Toxic Combustion By-Products, NIEHS-MIT, June 14-16, 1993, Cambridge, MS. ***Invited, Plenary.***
- (97) "Uptake, Disposition and Effects of Dietary 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin on the Survival, Growth, Reproduction, Histology, Biochemistry and Hematology of Rainbow Trout" With: R. Crawford, P.D. Jones, D.E. Tillitt, G.T. Ankley, J.L. Newsted, L.L. Williams, G. Walther and D.A. Verbrugge. To: DIOXIN '93, 13th International Symposium on Chlorinated Dioxins and Related Compounds, Vienna Austria, September 21-24, 1993.
- (98) "Production of Novel Recombinant Cell Line Bioassay Systems for Detection of 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin-Like Chemicals". With: M.A. Denison, M.H. El-Fouly, J.M.M.J.G. Aarts, A. Brouwer, and C. Richter. To: DIOXIN '93, 13th International Symposium on Chlorinated Dioxins and Related Compounds, Vienna Austria, September 21-24, 1993.
- (99) "Concentrations of Dissolved and Particulate PCBs in the Saginaw River: As Determined by Filtration and XAD-2 Resin Extraction". With: D.A. Verbrugge, M. Mora, L.L. Williams, R. Crawford, R. Moll, R. Rossman and M. Tuchman. To: DIOXIN '93, 13th International Symposium on Chlorinated Dioxins and Related Compounds, Vienna Austria, September 21-24, 1993.
- (100) "Impacts of Multiple Stressors on Ecosystems". To: Ecotoxicology Conference: Multiple Stresses in Ecosystems." Davis, CA October 14-15, 1993. ***Featured, Invited Speaker.***
- (101) "Effects of Dioxins on the reproduction of fishes". To: Workshop Reproduction Disturbances in Fish. Uppsala Sweden, October 20-22, 1993. ***Invited Delegate.***
- (102) "A Review of Factors Affecting Productivity of Bald Eagles. With: W.W. Bowerman and V.A. Kramer. To: North American Wildlife Biologists Network, Second Wingspread Conference on Developmental Abnormalities Associated With: Environmental Chemicals, Racine, WS, December, 1993. ***Invited Delegate.***

(103) "Structural Factors Affecting the Binding of Chlorinated Organic Compounds and their Hydroxylated Derivatives to the Estrogen Receptor". With: V.J. Kramer. To: Estrogens in the Environment III: Global Health Implications. Washington, D.C. January 9-11, 1994.

(103) "Organochlorine Compounds in the Environment" An International Symposium, Toronto, ON July 24-31, 1994. ***Invited Delegate.***

Co-chairperson Steering Committee

(105) "Development of an *in vitro* Rainbow Trout Cell Bioassay for Ah-R-Mediated Toxins", With: C.A. Richter, V. Leykam and M.S. Denison. To: Dioxin-'94, November 21-27, 1994 Kyoto, Japan.

(106) "PCBs and 2,3,7,8-Substituted Polychlorinated Dibenzo-p-dioxins and Dibenzofurans in Albatross Tissues from Midway Island in the Central Pacific Ocean" With: P.D. Jones, D.J. Hannah, S.J. Buckland, P.J. Day, S.V. Leathem, L.J. Porter, H.J. Auman, J.P. Ludwig and C. Summer. To: Dioxin-'94, November 21-27, 1994 Kyoto, Japan.

(107) "Chlorinated Compounds in the Environment: An Interpretive Review" With: E. Delzell, J. Doull, D. Mackay, I.C. Munro, G.M. Williams, R.F. Willes, E.R. Nestman, J.C. Orr, P.A. Miller, M.E. Starudub and B.S. Lynch. To: Dioxin-'94, November 21-27, 1994 Kyoto, Japan. ***Invited. Plenary, Keynote.***

(108) "*In vitro* Estrogenicity and Anti-Estrogenicity of Hydroxylated PCBs in Human Breast Tumor (MCF-7) Cells" With: V. Kramer, W. Helferich, A. Bergman and E. Wehler-Klein. To: Dioxin-'94, November 21-27, 1994 Kyoto, Japan.

(109) "Reproductive Toxicosis of 17 β -Estradiol in Fathead Minnows", With: S. Miles-Richardson, V. Kramer, and S. Fitzgerald. To: American Association of Veterinary Laboratory Diagnostics, Annual meeting, October 28-November 1, 1994, Grand Rapids, Michigan.

(110) "The Use of Risk Assessment Techniques to Develop Acceptable Concentrations of Bioaccumulative Chlorinated Chemicals for Aquatic Based Ecosystems II: For the Protection of Piscivorous Wildlife". With: P.A. Miller, M.E. Starodub and R.F. Willes. To: Aquatic Toxicology Workshop. October 3, 1994, Sarnia, Ontario, Canada.

(111) "The Accumulation of Dioxin-Like Compounds by Birds of the Great Lakes and their Effects on Reproduction. To: Aquatic Toxicology Workshop. October 3, 1994, Sarnia, Ontario, Canada. ***Invited, Plenary, Keynote.***

(112) "An Interpretive Review of Chlorinated Compounds in the Environment" With: E. Delzell, J. Doull, D. Mackay, I.C. Munro, G.M. Williams, R.F. Willes, E.R. Nestman, J.C. Orr, P.A. Miller, M.E. Starudub and B.S. Lynch. To: Chlorinated Organic Compounds in the Environment-Their Effect on Human Health and the Environment. Sept. 19-22, 1994, Berlin, Germany. ***Invited Plenary.***

- (113) "Dioxin Risk Assessment: Science and Policy Issues" To: Rifkin Inc. October 20-21, 1994, Washington, D.C. ***Invited, Plenary.***
- (114) "Environmental Chemistry at Michigan State University: Welcoming Address" To: 17th Annual Midwest Environmental Chemistry Meeting, East Lansing, MI, October 8, 1994. ***Invited, Plenary.***
- (115) "In vitro Estrogenicity and Anti-estrogenicity of Hydroxylated, Chlorinated Biphenyls in Human Breast Cancer Tumor (MCF-7) Cells. With: V.J. Kramer, W.T. Helferich and Åke Bergman, To: Environmental Remediation and Toxicology Forum, June 2, 1996, Lansing, Michigan.
- (116) "PCB and PCB Metabolites in Albatross from the Midway Islands". With: M. Athanasiadou, I Athanasiadis and E. Klasson-Wehler. To: Nordic Symposium on Organic Pollutants, Sept. 17-20, 1995, Smygehus, Sweden.
- (117) "Ecological Risk Assessment: State of the Science" To: Workshop on Biotransformation and Risk Assessment in The Netherlands. SETAC-Europe Workshop, April 28-May 1, 1996. ***Invited Keynote Speaker***
- (118) "Hydroxylated Polychlorinated Biphenyl Metabolites are Anti-estrogenic in a stably Transfected Human Breast Adenocarcinoma (MCF-7) Cell Line". To: Biotransformation in Ecological Risk Assessment, SETAC-Europe workshop, April 28-May 1, 1996, Noordwijerhout, The Netherlands. ***Invited***
- (119) "Advancements in Ecological Risk Assessments" To: 6th Annual Environmental Liability Management Seminar. June 5, 1996, Chicago, IL. ***Invited***
- (120) "Principles for Assessing Effects on the Endocrine System: Field and Laboratory Research". To: A Scientific Panel Discussion on Endocrine Disruptors in the Environment, March 16-19, 1996, Kiawah Island, SC. ***Invited Keynote Speaker.***
- (121) "PCBs in the Detroit River Water Column". With: K.L. Froese, D.A. Verbrugge, S.A. Snyder, F. Tilton, M. Tuchman and A. Ostasewski. To: EnviroAnalysis >96, Biennial Conference on Chemical Measurement and Monitoring of the Environment. May 13-16, 1996, Ottawa, Canada.
- (122) "Ecotoxicological Effects in Ecosystems: Wildlife Indicators of Environmental Contamination" With: J.P. Ludwig. To: Assessing the Cumulative Impacts of Watershed Development on Aquatic Ecosystems and Water Quality (A National Symposium) March 18-21, 1996, Chicago, IL.
- (123) "Hydroxylated Polychlorinated Biphenyl Metabolites are Anti-estrogenic in a stably Transfected Human Breast Adenocarcinoma (MCF7) Cell Line". With: V.J. Kramer, W.G. Helferich, Å. Berman and E. Klasson-Wehler. To: Dioxin >96, August 12-16, 1996, Amsterdam, The Netherlands.

- (124) “2,3,7,8-Tetrachlorodibenzo-*p*-dioxin Equivalents in Extracts of Baltic White-tailed Sea Eagles. With: J. Koistinen, J. Koivusaari, J. Paasivirta. To: Dioxin >96, August 12-16, 1996, Amsterdam, The Netherlands.
- (125) “Effects of Embryonic and Adult Exposure to 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin on Hepatic Microsomal Testosterone Hydroxylase Activities in Great Blue Herons (*Ardea herodias*). With: J.T. Sanderson, D.M. Janz and G.D. Bellward. To: Dioxin >96, August 12-16, 1996, Amsterdam, The Netherlands.
- (126) “*In Vitro* Induction of Ethoxyresorufin O-Deethylase and Porphorins by Halogenated Aromatic Hydrocarbons in Avian Primary Hepatocytes”. With: J.T. Sanderson and S.W. Kennedy. To: Dioxin >96, August 12-16, 1996, Amsterdam, The Netherlands.
- (127) “Progress in Ecological Risk Assessment” To: Dioxin >96, August 12-16, 1996, Amsterdam, The Netherlands. ***Invited Keynote***
- (128) “A Survey and Hazard Assessment of Several Organic Contaminants and Mercury in Fish from a Remote Lake in Michigan’s Upper Peninsula”. With: B.W. Nagy, K.S. Henry and N.R. Kevern. To: 1996 Forum on Environmental Remediation and Environmental Toxicology, September 19-20, 1996, Lansing, MI
- (129) “Effects of Waterborne Exposure of 17 β -Estradiol on Secondary Sex Characteristics and Gonads of Fathead Minnows (*Pimephales promelas*)”. With: S.R. Miles-Richardson, V.J. Kramer, S.D. Fitzgerald, J.A. Render, B. Yamini and S.J. Barbee. To: 1996 Forum on Environmental Remediation and Environmental Toxicology, September 19-20, 1996, Lansing, MI.
- (130) “Endocrine Modulation: Perspectives on Aquatic Exposure and Effects Testing”. To: Endocrine Modulators Forum at 83rd Annual meeting of the Chemical Specialties Manufacturers Association, December 8-12, 1996, Fort Lauderdale, FL. ***Invited***
- (131) “Development of Biomarkers, *in vitro* and *in vivo* Assays and Determination of Estrogenic Effects in Fishes”. With: K.M. Nichols, E.M. Snyder, S.R. Miles-Richardson, S.E. Pierens, A.L. Blankenship, S.A. Snyder, D.L. Villeneuve and V.J. Kramer. To: Superfund Basic Research Program: *A Decade of Improving Health Through Multi-Disciplinary Research*, February 24-28, 1997, Chapel Hill, NC. ***Invited***
- (132) “Monitoring for Complex Mixtures of Estrogen Agonists in the Aquatic Environment”. With: S.A. Snyder, D.L. Villeneuve, S.E. Pierens, K.M. Nichols, E.M. Snyder, S.R. Miles-Richardson, S.E. Pierens and A.L. Blankenship. To: *A Decade of Improving Health Through Multi-Disciplinary Research*, February 24-28, 1997, Chapel Hill, NC. ***Invited***
- (133) “Response of Fish Exposed to Municipal Wastewater Effluent *in situ*: Preliminary Evaluation of Endocrine Function”. With: K. Nichols, E. Snyder and S. Pierens. To: Midwest Fish and Wildlife Conference. December 8-11, 1996, Omaha NB.

- (134) “Toxicant Identification and Evaluation (TIE) of Waste Water Effluents: Analytical Aspects”. With: S.A. Snyder, D. Villeneuve and D. Verbrugge. To: Pitcon >97, March 16-21, 1997 Atlanta GA.
- (135) “Status and Trends in Xenobiotics in Great Lakes Species” With: A. Blankenship. To Toxics and Exotics in the Great Lakes, Agriculture and Natural Resources Days, Michigan State University, E. Lansing, MI, March 6, 1997. ***Invited Plenary***
- (136) “Monitoring for Complex Mixtures of Estrogen Agonists and Antagonists in The Aquatic Environment. Development of Biomarkers, *in vitro* Assays and Determination of AEstrogenic” Effects in Fishes”. To: University of Guelph Toxicology Students’ Association 11th Annual Toxicology Symposium ***AEndocrine Modulators: Are They Stealing Our Future?***”, February 8, 1997, Guelph, ON. ***Invited Keynote***
- (137) “Effects of Endocrine Disrupters on Wildlife” With: E.M. Snyder. To: Iowa Conference on Emerging Environmental Health Issues. University of Iowa Center for Health Effects of Environmental Contamination, University of Iowa, Iowa City Iowa. September. 23-24, 1997. ***Invited, Plenary.***
- (138) “Utility of Existing Tests With: Mammals to Assess Endocrine Disruptive Effects”. To: Workshop on Screening Methods for Endocrine Disruptors in Wildlife, March 17-19, 1997, Kansas City, MO. ***Invited Plenary.***
- (139) “Effects of Waterborne Concentrations of 4-Nonylphenol”. With: S. Miles-Richardson, To: Health Conference >97-Great Lakes/St. Lawrence, May 13-15, 1997.
- (140) “Environmental Endocrine Disruption and Environmental Health”. To: Perspectives on Environmental Endocrine Disruption, September 19, 1997, University of Memphis, Memphis, TN. ***Invited, Plenary.***
- (141) “Monitoring for and Effects of Complex Mixtures of Polychlorinated-diaromatic Hydrocarbons on Wildlife”. To: Conference on Current Issues on Chemical Mixtures, August 11-13, 1997, Colorado State University, Fort Collins, CO. ***Invited.***
- (142) “Polychlorinated dibenzo-*p*-dioxins, Dibenzofurans and Polychlorinated Biphenyls in Street Dusts and Soil Samples from Savannah, Georgia”. With: B.G. Logganathan, K. Kannan, K.S. Sajwan, C.S. Chetty and D.A. Owen. To: Dioxin >97, August 25-29, 1997, Indianapolis, IN, *Organochlorine Compounds* 32:192-197.
- (143) “Profile of Chlorinated and Brominated Dioxins and Furans in Soil and Sediments Collected at a Former Chlor-Alkali Plant.” With: K.Kannan, and I. Watanabe. To: Dioxin >97, August 25-29, 1997, Indianapolis, IN, *Organochlorine Compounds* 31:502-505.
- (144) “Altered Biological Activity of Commercial PCB Mixtures Due to Microbial Reductive Dechlorination” With: M. Mousa, P.E. Ganey, J.F. Quensen, B.V. Madhukar, K. Chou, L.J. Fisher and S.A. Boyd. To: Dioxin >97, August 25-29, 1997, Indianapolis, IN, *Organochlorine Compounds* 34:1-5

- (145) “Bioassay analysis of Mixtures of Estrogenic and Dioxin-like CompoundsA. With: A. Blankenship. To: Dioxin >97, August 25-29, 1997, Indianapolis, IN, *Organochlorine Compounds* 34:1-5.
- (146) “Toxicant Identification and Evaluation (TIE) of Waste Water Effluents: Analytical Aspects”. With: S.A. Snyder, D. Villeneuve and D. Verbrugge. To: 27th International Symposium on Analytical Chemistry, August, 1997, Jekyl Island, Georgia.
- (147) “Extraction and Identification of Endocrine Disrupters from Aqueous Mixtures”. With: S.A. Snyder, D. Villeneuve and D. Verbrugge. To: 27th International Symposium on Analytical Chemistry, August, 1997, Jekyl Island, Georgia.
- (148) “Endocrine Disrupters in Wildlife. Why is it Important to Understand the Mechanism of Action?” To: Environmental Chemicals and Reproductive and Developmental Health: The Endocrine Disrupter Debate, October 17, 1997, St. Paul, Minnesota. ***Invited***
- (149) “Reproductive and Developmental Effects Data in Ecological Risk Assessment: Examples of Their Utility in Decision-Making and Comments on Their Limitations “ To: Workshop on Reproductive and Developmental Effects of Contaminants in Oviparous Vertebrates: Mechanisms, Ecological Consequences and Assessments of Risk. July 12-17, 1997, Gregson, Montana, Society of Environmental Toxicology and Chemistry Pelston Workshop Series. ***Invited Delegate***
- (150) “Environmental Endocrine Disruption and Environmental Health” To: Perspectives on Environmental Endocrine Disruption, University of Memphis Issues of the Environment Symposium Series, September 19, 1997, Memphis Tennessee.
- (151) “Monitoring Fates and Effects of Complex Mixtures in the Wildlife of the Great Lakes” To: Conference on Current Issues on Chemical Mixtures, Colorado State University and National Institutes of Health Sciences, August 11-13, 1997, Fort Collins, Colorado. ***Invited Delegate***
- (152) “Current Methods in PCB Risk Assessment”. To: Superfund Project Meeting: State University of New York-at Albany, December 8, 1998, Albany, New York.
- (153) Hot Topics in Environmental Chemistry, A Symposium in Honor of Professor Otto Hutzinger on the Occasion of His Retirement from the University of Bayreuth, Bayreuth/Kloster Banz, German, June 3-5, 1998. ***Invited Delegate.***
- (154) “Comprehensive Screening Techniques for Endocrine Disruptors in Aqueous Mixtures”. With: S. A. Snyder, D. L. Villeneuve, E. M. Snyder and T. Keith. To: PITTCO >98, March 1-5, 1998, New Orleans, LA.
- (155) “Methods for Assessing the Effects of Endocrine Disruptors in Vertebrates”. To: American Society for Testing and Materials, Annual meeting, April 20-23, 1998, Atlanta, Georgia. ***Invited, Plenary.***

- (156) Hazardous Substances and Male Reproductive Health, An International Conference. May 14-15, 1998, New York, New York. ***Invited Delegate.***
Session Chair- Exposure
- (157) ‘Effects of Waterborne Concentrations of 4-Nonylphenol and Nonylphenol Ethoxylate on the Secondary Sex Characteristics and Gonads of Fathead Minnows’. With: S. Miles-Richardson, E.M. Snyder, K. Nichols, and S. Snyder. To: Health Conference-97-Great Lakes /St. Lawrence River, May, 1998.
- (158) “Application of Novel Recombinant Cell Bioassays to Screen for Estrogen and Aryl Hydrocarbon Receptor Agonists in Michigan Wastewater. With: D. Villeneuve and S.A. Snyder. To: 5th Annual Michigan State University Zoology Department Research Day, April 4th, 1998, East Lansing, MI.
- (159) “Accumulation of Tributyltin and its Breakdown Products in Water from Birds from the Great Lakes and Coastal United States and Sea Ducks from Canada.” With: K. Kannan, J.E. Elliot, C. Duda and S. Snyder. To: 5th Annual Michigan State University Zoology Department Research Day, April 4th, 1998, East Lansing, MI.
- (160) “Assessment of Short-term and Chronic Toxicity of Polydimethylsiloxane (PDMS) to the Aquatic Invertebrate *Chironomus tentans* and *Hyallela azteca*”. With: K.S. Henry. To: 5th Annual Michigan State University Zoology Department Research Day, April 4th, 1998, East Lansing, MI.
- (161) “Butyltins in Fishes of the Southern Baltic Sea”. With: C. Duda, D. Senthilkumar, D. Villeneuve, K Kannan and J. Falandysz. To: 5th Annual Michigan State University Zoology Department Research Day, April 4th, 1998, East Lansing, MI.
- (162) “Composition of Chloronaphthalene Isomers and Congeners in Technical PCN Formulations of the Halowax Series”. With: J. Falandysz, M. Kawano, N. Morita, M. Masada and K. Kannan. To: To: Dioxin >98, August 25-29, 1998, Stockholm, Sweden, *Organochlorine Compounds*.
- (163) “Application of Novel Recombinant Cell Bioassays to Screen for Estrogen and Aryl Hydrocarbon Receptor Agonists in Michigan Wastewater.” With: D. Villeneuve and S.A. Snyder. To: 5th Annual Michigan State University Zoology Department Research Day, April 4th, 1998, East Lansing, MI.
- (164) “Requirement for Empirical and Theoretical Studies on Chemical Stress Evaluation and Assessment”, microsymposium on Chemical Stress in Aquatic Systems 37th International Union of Pure and Applied Chemistry Annual Congress, August 14-19, 1999, Berlin Germany. ***Invited Plenary***
- (165) “A Tiered Probabilistic Approach to Ecological Risk Assessment”. With: K.S. Solomon, J.R. Coats, J.M. Giddings, K.M. Dixon and E.E. Kenaga. XIVth International Plant Protection Congress (IPPC), July 25-30, 1999, Jerusalem, Israel. ***Invited Plenary***

- (166) "Risks of Chlorpyrifos in the Aquatic Environment: II Probabilistic Characterization of Exposure and Toxicity in Aquatic Organisms ". With: K.S. Solomon, J.M. Giddings, J.R. Coats, K.R. Dixon and E.E. Kenaga." XIVth International Plant Protection Congress (IPPC), July 25-30, 1999, Jerusalem, Israel. **Invited Plenary**
- (167) "Effects of 4-nonylphenol on Fecundity and Biomarkers of Estrogenicity in Fathead Minnows". With: S.L. Pierens, E.M. Snyder, S. Miles-Richardson, V.J. Kramer, S.A. Snyder, K.M. Nichols and D.A. Villeneuve. To: Environmental Endocrine Disrupting Chemicals. March 7-12, 1999, Centro Stefano Franscini, Monte Verità, Ascona, Switzerland. **Invited Plenary**.
- (1) Session chair: **Phytoestrogens and Alkylphenols**
- (168) "Biomarkers as functional Measures of Exposure", To: Scientific Meeting on Biomarkers in Environmental Biology, July, 14-18, 1999, Landcare Institute, Christchurch, New Zealand. **Invited Plenary**
- (169) "Butyltin Contamination in Humans and Wildlife". With: K. Kannan. To: **Great Lakes, Great Challenges**, 10th Annual Great Lakes Conference, March, 11, 1999, East Lansing, MI. **Invited Plenary**.
- (170) "A Tiered Probabilistic Approach to Ecological Risk Assessment". To: Chemical Stress in Aquatic Systems, International Union of Pure and Applied Chemistry, 37th Congress, August 14-19, Berlin, Germany. **Invited Plenary**
- (171) "The use of Vitellogenin production in Fish as a Biomarker of Exposure to and Effects of Environmental Estrogens". To: Pollution Effects-Biomarkers in Environmental Toxicology, July 14-16, 1999, Christchurch, New Zealand. **Invited Keynote**
- (172) "A Competitive Polyclonal ELISA for Determination of Vitellogenin in Cyprinids". With: P. D. Jones. To: Pollution Effects-Biomarkers in Environmental Toxicology, July 14-16, 1999, Christchurch, New Zealand. **Invited**
- (173) "Results of the Ecological Risk Assessment of Organochlorines in the New Zealand Environment." With: P. D. Jones and S. Scobie. To: Pollution Effects-Biomarkers in Environmental Toxicology, July 14-16, 1999, Christchurch, New Zealand. **Invited**
- (174) "Evaluation of Cytotoxicity, TCDD-like toxicity and Estrogenicity of Complex Environmental Mixtures." With: K. Staffova, L. Dusek, K. Kannan, I. Holubek and M. Machala. To: SECOTOX, 6th Annual meeting of the Eastern European Regional Section (In conjunction With: the 3rd annual meeting of the Union of Hungarian Toxicologists, Sept. 13-19, 1999, nföldvár, Hungary. **Invited**
- (175) "Dioxin-like and Non-dioxin-like Toxic Effects Polychlorinated Biphenyls: Implications for Risk Assessment." With: K. Kannan, P. D. Jones and A.L. Blankenship. To: SECOTOX, 6th Annual meeting of the Eastern European Regional Section (In conjunction With: the 3rd annual meeting of the Union of Hungarian Toxicologists, Sept. 13-19, 1999, nföldvár, Hungary. **Invited Keynote**

- (176) “Polychlorinated Naphthalenes in Soil, Sediment and Biota Collected Near a Former Chlor-alkali Plant in Coastal Georgia, USA.” With: K. Kannan, A.L. Blankenship and T. Imigawa. To: SECOTOX, 6th Annual meeting of the Eastern European Regional Section (In conjunction With: the 3rd annual meeting of the Union of Hungarian Toxicologists, Sept. 13-19, 1999, nföldvár, Hungary. *Invited*
- (177) “Vertical Profile of Dioxin-like and Estrogenic Potencies in a Sediment Core from Tokio Bay, Japan”. With: K. Kannan, N. Yamashita, D.L. Villeneuve, S. Hashimoto and A. Miyazaki. To: SECOTOX, 6th Annual meeting of the Eastern European Regional Section (In conjunction With: the 3rd annual meeting of the Union of Hungarian Toxicologists, Sept. 13-19, 1999, nföldvár, Hungary. *Invited*
- (178) “A Tiered Probabilistic Approach to Ecological Risk Assessment”. To: International Plant Protection Congress, July 25-30, 1999, Jerusalem, Israel. *Invited, Keynote*
- (179) “The Occurrence of Estrogenic Effects in Flanders, Belgium: A Screening of Resident Fish Populations.” With: W. M. De Coen, K. Van Campenhout, G. Vandenberg, B. Denayer and C.R. Janssen. To: 9th International Symposium on Toxicity Assessment, September 26-October 1, 1999, Pretoria, South Africa. *Invited*
- (180) “Toxicological Damage to Fish and Wildlife after Dam Removals on Streams”. With: J.P. Ludwig. To: Midwest Fish and Wildlife Conference, 61st Annual meeting, December 6-8, 1999, Chicago, Illinois. Special session entitled ADam Removal and Fish Passage: Restoration of Aquatic Ecosystems. *Invited*
- (181) “Vertical Profile of Dioxin-like and Estrogenic Potencies in a Sediment Core from Tokyo Bay, Japan”. With: K. Kannan, N. Yamashita, D.L. Villeneuve, S. Hashimoto and A. Miyazaki. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (182) “Chloro-s-triazine Herbicides and Certain Metabolites Induce Aromatase (CYP-19) Activity in H295R Human Adrenocortical Carcinoma Cells”. With: J.T. Sanderson, M. Heneweer, W. Seinen and M. van den Berg. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (183) “Dioxin-like and Non-dioxin-like Toxic Effects of Polychlorinated Biphenyls (PCBs): Implications for Risk Assessment”. With: K. Kannan, A.L. Blankenship and P.D. Jones. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy. *Invited*
- (184) “Instrumental and Bioanalytical Measures of Dioxin-like Activity in Sediments from Masan Bay, Korea”. With: K. Kannan, J. S. Khim, D.L. Villeneuve and C. H. Koh. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (185) “An Innovative Injury Quantification Approach for Organisms Exposed to AhR-Active Compounds”. With: D.F. Ludwig, T.J. Iannuzzi, K. Kannan, S.H. Safe, L.M. Schmeising,

- N.W. Gard, M.L. Moore and K. T. Connor. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (186) “Relative Potencies of Halowax Mixtures and Individual polychlorinated Naphthalenes (PCNs) to Induce Ah Receptor-Mediated Responses in the Rat Hepatoma H4IIE-*luc* Cell Bioassay”. With: A. L. Blankenship, K. Kannan, S. Villalobos, D.L. Villeneuve, J. Falandysz, T. Imagawa, and E. Jakobson. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (187) “Extractable Organohalogenes (EOX) in Sediment and Biota Collected at an Estuarine Marsh Near a Former Chlor-alkali Facility”. With: K. Kannan, M. Kawano, Y. Kashima and M. Matsui. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (188) “Estrogenic Potency of Individual Nonylphenol Congeners Isolated from Technical Mixtures”. With: N. Yamashita, K. Kannan, S. Hashimoto and A. Miyazaki. To: Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants, September 12-17, 1999, Venice, Italy.
- (189) “Vitellogenin as a Biomarker for Environmental Estrogens”. With: P. D. Jones, W. De Coen and L. Tremblay. To: 3rd International Water Association (IWA) Specialized Conference on Hazard Assessment and Control of Environmental Contaminants (ECOHAZARD 99). December 5-8, 1999, Otsu, Japan. ***Invited, Keynote.***
- (190) “Effects of Estrogenic Substances on Laboratory and Feral Fishes”. With: P.D. Jones, S.A. Villalobos and D.L. Villeneuve. To: International Symposium on Environmental Endocrine Disruptors 99. December 9-11, 1999, Kobe, Japan. ***Invited, Plenary.***
- (191) “An Analysis of Risk to Bald Eagles from Passage of Great Lakes Fish Over Hydroelectric Dams”. With: W.W. Bowerman. To: Raptors 2000, a joint meeting of the Raptor Research Foundation and the World Working Group on Birds of Prey. April, 2000, Eliat, Israel.
- (192) “Biomarkers in Wildlife” To: International Conference on Arctic Development, Pollution, and Biomarkers of Human Health. May 1-3, 2000, Anchorage AL.
- (193) “Toxic Responses of Medaka (d-rR Strain) to Polychlorinated Naphthalene Mixtures after Embryonic Exposure by *in ovo* Nanoinjection: A Ratial Life Cycle Assessment”. With: S.A.Villalobos, D. Papoulias, J. Meadows, A.L. Blankenship, S. D. Pastva, K. Kannan, and D.E. Tillitt To: International Symposium: Endocrine-Disrupting Substance Testing in Medaka. March 17-20, 2000, Nagoya Japan. ***Invited***
- (194) “Relative Potencies of Individual Polychlorinated Naphthalenes to Induce Dioxion-Like Responses in Fish and Mammalian in Vitro Bioassays”. With: D. L. Villeneuve, J.S. Khim, K. Kannan, J. Falandysz, V.A. Nikiforov and A.L. Blankenship. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.

- (195) "Polychlorinated Naphthalenes in Sediment, Fishes and Fish-Eating Waterbirds from Michigan Waters of the Great Lakes". With: K. Kannan, T. Imagawa, N. Yamashita and A. Miyazaki. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.
- (196) "Polychlorinated Biphenyls in Arctic and Antarctic Organisms: Polar Bear, Krill, Fish, Weddell Seal and Skua". With: S. Corsolini, K. Kannan, T. Evans and S. Focardi. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.
- (197) "Instrumental Analysis of Dioxin-Like Compounds in Environmental Samples from Ulsan Bay, Korea". With: K. T. Lee, J. S. Khim, K. Kannan, D. L. Villeneuve, and C. H. Koh. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.
- (198) "In Vitro Gene Expression Analysis of Dioxin-Like Compounds in environmental Samples from Ulsan Bay, Korea". With: J. S. Khim, K.T., K.T. Lee, D.L. Villeneuve, and C.H. Koh. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.
- (199) "Studies on the Mechanism of TCDD-Induced Deformities and Embryo Lethality in Birds". With: A. L. Blankenship, K. Hilcherova, K. Kemler, M. Nie, S.A. Villalobos, D. Powell and S. Bursian. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.
- (200) "Isomer-Specific Analysis of Polychlorinated Naphthalenes in Several Polychlorinated Biphenyl Preparations". With: N. Yamashita, K. Kannan, T. Imagawa and A. Miyazaki. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, Monterey, CA.
- (201) "Profiles of Specific Isomers of Polychlorinated Naphthalenes in Tokyo Bay Sediment Core Sample". With: T. Imagawa, K. Kannan, N. Yamashita and A. Miyazaki. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 2000, Monterey, CA.
- (202) "Relative Potencies of Individual Polycyclic Aromatic Hydrocarbons to Induce Dioxin-Like and Estrogenic Responses in Three Different Cell Lines". With: J. S. Khim, K. Kannan, D. L. Villeneuve, J. Kang and C.H. Koh. To: Dioxin 2000, 20th International Symposium on Halogenated Environmental Organic Pollutants, August 13-17, 200, Monterey, CA.
- (203) "Effects to Marine Mammals". With: P. D. Jones, K. Kannan and , A. L. Blankenship. To: Costal and Estuarine Risk Assessment Forum". July 20-21, 2000, Williamsburg, VA.
- (204) "Analysis, Design, and Management of Bald Eagle Habitat in Relation to Hydroelectric Operations: A Case Study in Michigan, USA". With: W. W. Bowerman, T. G. Grubb, A.J. Bath, G.A. Dawson and K. R. Ennis. To: Sea Eagle 2000, September 13-17, 2000, Bjorkogarden, Sweden. *Invited*

- (205) “SOT/SETAC Mixtures Workshop”. September 21 and 22, Wahington, DC. ***Invited Delegate.***
- (206) “Ecological Perspective”. To: Endocrine Disruptor Chemicals Session: State of the Lakes Conference (SOLEC). October 19, 2000, Hamilton, Ontario. ***Invited, Plenary.***
- (207) “Persistent Organic Pollutants and Effects on Wildlife” With: Karl Strause. To: Bemidji Area All I/T/U Meeting, Indian Health Service, U.S. Dept. Health & Human Services. November 28-29, 2000, Bloomington, MN, ***Invited, Plenary.***
- (208) “Use of Chemistry and Biology to Assess Endocrine Disruptors in the Environment”. To: West Japan Society for the Study of Endocrine Disruptors. December 12, 2000, Osaka, Japan. ***Invited, Plenary.***
- (209) “Use of Chemistry and Biology to Assess Endocrine Disruptors in the Environment”. To: International Symposium on Environmental Endocrine Disruptors. December 16, 2000, Yokohama, Japan. ***Invited, Plenary.***
- (210) Second Annual Conference on Sex and Gene Expression, (SAGE II). March 8-11, 2001, Winston-Salem, NC. ***Invited Delegate.***
- (211) The Science of Pre-Harvest Safety-Bringing Sound Science to the Table, May 8-10, 2001, East Lansing, Michigan.
- (212) Session Chairperson Environment, Wildlife and Water as Factors that Determine Food Safety
- (213) “Use of Chemistry and Biology to Assess Endocrine Disruptors in the Environment”. To: 3rd International Conference on Marine and Pollution Ecology, June 10-14, 2001, Hong Kong, China. ***Invited Keynote***

Session chair: Ecotoxicology

- (214) “Organochlorine Residues in and Their Effects on Fish and Wildlife of the North American Great Lakes”.To: Shiga-Michigan Joint Symposium, July 19-20, 2001, Hikone, Japan. Invited Keynote.

Session chair: Environmental Contaminants and Their Toxicological Problems

- (215) “Assessing Environmental Changes Through Chemical Sediment Chronologies from Inland Lakes”. With: D. Long. To: Shiga-Michigan Joint Symposium, July 19-20, 2001, Hikone, Japan.
- (215) “Organochlorine Residues in and Their Effects on Fish and Wildlife of the North American Great Lakes”. With: K. Kannan. To: Dioxin 2001, 21st International Symposium on

Halogenated Environmental Organic Pollutants and POPs, September 9-14, 2001, Gyeongju, Korea. ***Invited Keynote***

- (216) “Polychlorinated-Naphthalenes, -Biphenyls, Dibenzo-*p*-dioxins in Tuna, Swordfish, Cormorants and Swallows from Italy”. With: K. Kannan, S. Corsolini, T. Imigawa and S. Focardi. To: Dioxin 2001, 21st International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 9-14, 2001, Gyeongju, Korea. ***Invited***
- (217) “PCDDs, PCDFs and Dioxin-like PCBs in Humans and Wildlife Samples from India”. With: K. Senthikumar, K. Kannan, O.N. Paramasivan, V. P. Shanmugasundaram, J. Nakanishi and S. Masunaga. To: Dioxin 2001, 21st International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 9-14, 2001, Gyeongju, Korea.
- (218) “Characterization of Dioxin-like and Estrogenic Compounds in Environmental Samples from Onsan Bay and It’s Inland Region, Korea”. With: J-S Khim, K.E. Lee, D. L. Villeneuve, K. Kannan and C. H. Koh. To: Dioxin 2001, 21st International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 9-14, 2001, Gyeongju, Korea. ***Best paper award***
- (219) “Bioassay Directed Instrumental Analyses for Characterization of Dioxin-like and Estrogenic Compounds in Korean Sediments”. With: C. H. Koh, J. S. Khim, K. T. Lee, D. L. Villeneuve and K. Kannan. To: Dioxin 2001, 21st International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 9-14, 2001, Gyeongju, Korea.
- (220) “Polychlorinated Dibenzo-*p*-dioxins and Dibenzofurans (PCDD/DFs) in Soils from Masan and Changwon Cities, Korea”. With: S. H. Im, K. Kannan, M. Matsuda and T. Wakimoto. To: Dioxin 2001, September 9-14, 2001, 21st International Symposium on Halogenated Environmental Organic Pollutants and POPs, Gyeongju, Korea.
- (221) “Occurance of Dioxins, Furans and Dioxin-like PCBs in Arctic and Antarctic Wildlife”. With: K. Senthikumar, K. Kannan, S. Corsolini, T. Evans, J. Nakanishi and S. Masunaga. To: Dioxin 2001, 21st International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 9-14, 2001, Gyeongju, Korea.
- (222) “Bioassay-directed Fractionation Analytical and Bioanalytical Methods for Identifying and Quantifying Endocrine Disruptors in Water”. To Sediment Quality Assessment of EDCs and POPs. Organized by SORGBIOS study Group (SORGBIOS ‘98-2000, NIER, SNU). Seoul, Korea, September 6, 2001.
- (223) “From Par Pond to the Great Lakes: Adventures With: Wildlife and Environmental Chemistry”. To The Savannah River Ecology Laboratory: 50 Years of Environmental Research, Aiken, SC, October 19, 2001. ***Invited Plenary***
- (224) “Organochlorine Residues in And Their Effects on Fish And Wildlife of The North American Great Lakes”. With: K. Kannan. To Vietnam-United States Scientific Conference on

Human Health and Environmental Effects of Agent Orange/Dioxin. March 3-6, 2002, Hanoi, Vietnam. ***Invited Delegate, Plenary.***

- (225) “Isomer-Specific Analysis of PCN and Dioxin-Like Compounds in DELOR: Technical PCB Mixtures from the Former Czechoslovakia”. With: S. Taniyasu, K. Kannan, I. Holuobek, Y. Hori and N. Yamashita. To: 4th Annual Meeting of Japan Society of Endocrine Disruptors Research, December 14-15, 2001, Tsukuba, Japan. ***Invited Plenary.***
- (226) “Central Effects of Endocrine Disrupting Chemicals in Birds”. Scientific Committee on Problems in the Environment (SCOPE)/ International Union of Pure and Applied Chemists (IUPAC). International Symposium on Endocrine Active Substances, November 17-21, 2001, Yokohama, Japan. ***Invited Delegate.***
- (227) “Dioxins and Dioxin-like Residues in and Their Effects on Fish and Wildlife of the North American Great Lakes. To: Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxin, March 3-6, 2002, Hanoi, Vietnam.
- (228) “Polychlorinated Dibenzo-p-Dioxin and Dibenzo Furans in Soils from Mason and Changwon, Korea”. To: Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxin, March 3-6, 2002, Hanoi, Vietnam.
- (229) “Results of a “Country-wide” Environmental Survey of Organochlorines in New Zealand ”. To: Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxin, March 3-6, 2002, Hanoi, Vietnam.
- (230) “Effects of Chronic Exposure of Fish to 2,3,7,8-TCDD”. To: Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxin, March 3-6, 2002, Hanoi, Vietnam.
- (231) “Bioanalytical Tools for the Detection and Identification of Biologically Active Products of Bioremediation and Biodegradation. To: Bioremediation and Biodegradation: Current Advances in Reducing Toxicity, Exposure and Environmental Consequences, June 9-12, 2002, Pacific Grove, CA.
- (232) “Levels of Perfluorooctane Sulfonate (PFOS) and Other Related Compounds in the Blood of Japanese People”. With: S. Masunaga, K. Kannan, R. Doi and J. Nakanishi, To: 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 11-16, 2002, Barcelona, Spain.
- (233) “Global Distribution and Bioaccumulation of Perfluorinated Hydrocarbons”. With: K. Kannan, To: 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 11-16, 2002, Barcelona, Spain. ***Invited***
- (224) “Food Chain Accumulation of Polychlorinated Naphthalenes in the Raisin River, Michigan, USA”. With: Hanari, N., K. Kannan, Y. Horii, S. Taniyasu, N. Yamashita and D.J. Jude. To: 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 11-16, 2002, Barcelona, Spain.

- (225) "Accumulation and Elimination of PCDD/DFs, Dioxin-Like PCBs and Organochlorine Pesticides in Bald Eagles from Michigan, USA". With: Kannan, K., K. S. Kumar, T. Takasuga, and S. Masunaga. To: 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 11-16, 2002, Barcelona, Spain.
- (226) "Mass Balance Approaches to Dioxin Exposures in a Michigan River, USA". With: K. Kannan, P. Bradley, N. Yamashita, J. McCabe and A. Taylor. To: 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 11-16, 2002, Barcelona, Spain. ***Invited keynote***
- (227) "Review of the Effects of Endocrine Disrupting Chemicals in Birds". With: J. T. Sanderson, L. A. Verbrugge and P. D. Jones. To: SCOPE/IUPAC International Symposium on Endocrine Active Substances, November 17-21, 2002, Yokohama, Japan. ***Invited Keynote***
- (228) "Perfluorinated Compounds: An Overview of Environmental and Analytical Issues". To: Approaches to the Analysis of PFOA and It's Salts in Environmental Matrices-Problems and Pitfalls, May 1-2, 2003, Hamburg, Germany. ***Invited Keynote.***
- (229) "Assessment of Toxicity of de novo Formed Photoproducts After Irradiation of Monochlorophenols in Ice and Liquid Water". With: J. Janošek, M. Škarek, L. Bláha, V. Dupalová, J. Klánová, P. Klán and I. Holoubek. To: 11th International Symposium On Toxicity Assessment, June 1-6, 2003, Vilnius, Lithuania.
- (230) "Relative Cytotoxic Potencies (RCPs) of Environmental Chemicals (Organotins, Fluorinated Organic Compounds". With: T. Nasu, H. Nakata, H. Shoji and K. Kannan. 2003. To: Japan Society of Environmental Chemistry, June 22-24, 2003, Niigata, Japan.
- (231) "Relative Cytotoxic Potencies (RCPs) of Environmental Chemicals (Organotins, Fluorinated Organic Compounds". With: T. Nasu, H. Nakata, H. Shoji and K. Kannan. 2003. To: Japan Society of Environmental Chemistry, June 22-24, 2003, Niigata, Japan.
- (232) "Ecotoxicological Risk Assessment of Atrazine in Amphibians". With: K.R. Solomon, J.A. Carr, L.H. Du Preez, T.S. Gross, R.J. Kendall, E.E. Smith and G.J. van der Kraak. To: Pan Pacific Pesticide Chemistry Society, June 3, 2003, Honolulu, Hawaii.
- (233) "Endocrine Disruptor Mechanisms: Beyond Receptor Binding. Methods for Screening for Endocrine Disruptor Activity". German Chemical Society Annual Meeting, Munich, Germany, October 6-11, 2003. ***Invited Keynote***
- (234) "Toxicological Perspectives on Perfluorinated Compounds", With: P.D. Jones and J.L. Newsted. To: 23rd International Symposium on Halogenated Environmental Organic Pollutants (POPs), August 24-29, 2003, Boston, Massachusetts. ***Invited Keynote***
- (235) "Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans in Tissues from South Korea". With: S.-H. Im, K.D. Strause and Y.-S. Chang. To: 23rd International Symposium on Halogenated Environmental Organic Pollutants (POPs), August 24-29, 2003, Boston, Massachusetts.

- (236) "Principal Components Analysis of Dioxins from the Rocky Mountain Arsenal and Denver, CO." With: P.D. Jones, J.L. Newsted, J. Slocum, G. Henningson, L. Williams and C. Bicher. To: 23rd International Symposium on Halogenated Environmental Organic Pollutants (POPs), August 24-29, 2003, Boston, Massachusetts.
- (237) "Determination of Fluoroquinolone Antibiotics in Wastewater Effluents by Liquid Chromatography-Mass Spectrometry and Fluorescence Detection". With: H. Nakata, K. Kannan and P.D. Jones. To: 23rd International Symposium on Halogenated Environmental Organic Pollutants (POPs), August 24-29, 2003, Boston, Massachusetts.
- (238) "Elimination of Estrogenic Activity in Advanced Waste Water Treatment". With: A. Coors, P.D. Jones and H.T. Ratte. To: Ecohazard 2003, International Water Association, September 14-17, 2003, Aachen Germany.
- (239) "Relative Immunotoxic Potencies (RIPs) of Environmental Chemicals (Organotins, Fluorinated Organic Compounds, Pharmaceuticals) Expressed Relative to a Tributyltin in Human Lymphocytes". With: H. Nakata, H. Nasu, H. Shoi and K. Kannan. To: The Annual meeting of the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT) "The Environmental Risk of Endocrine Disruptors", January 20-23, 2003, Matsuyama, Japan.
- (240) "Cell Bioassays for Detection of Aryl Hydrocarbon (AhR) and Estrogen Receptor (ER) Mediated Activity in Environmental Samples". To: US-Vietnam Scientific Workshop "Dioxin Screening, Remediation Methodologies and Site Characterization", November 3-5, 2003, Hanoi, Vietnam.
- (241) "Global Monitoring for Perfluorinated Compounds in the Environment-A Novel Class of Global Pollutants". To: 12th International Symposium on Biological Indicators-"Bioindicators for Environmental Management, December 2-5, Hong Kong.
- (242) "Molecular Bioindicators". To: Workshop on Bioindicators of Environmental Management. City University of Hong Kong, December 12-14, 2003, Hong Kong, China.
- (243) "Ecotoxicological Risk Assessment of Atrazine in Amphibians" With: G. Van der Kraak, K.S. Solomon, J.A. Carr, L.H. Du Preez, T.S. Gross, R.J. Kendall and E.E. Smith. To: International Symposium on Environmental Endocrine Disruptors 2003, December 3-5, Sendai, Japan.
- (244) "Ecotoxicological Risk Assessment of Atrazine in Amphibians" With: G. Van der Kraak, K.S. Solomon, J.A. Carr, L.H. Du Preez, T.S. Gross, R.J. Kendall and E.E. Smith. To: International Symposium on Environmental Endocrine Disruptors 2003, December 3-5, Sendai, Japan.
- (245) "Assessment of Endocrine Disrupting and Cytotoxic Chemicals in a Coastal Nature Reserve in Hong Kong". With: H. L. Wong, W. H. Siu and P. K. S. Lam. To: International Symposium on Environmental Behavior and Ecological Impacts of Persistent Toxic Substances, March 18-20, 2004, Matsuyama, Japan.

- (246) "Ecological Risk Assessment of Environmental Contaminants for Waterbirds". With: J. C. W. Lam, S. Tanabe, H. L. Wong, B. S. F. Wong and P. K. S. Lam. To: International Symposium on Environmental Behavior and Ecological Impacts of Persistent Toxic Substances, March 18-20, 2004, Matsuyama, Japan.
- (247) "Monitoring of Persistent Organic Contaminants in Seawater and Sediment Along the Pearl River Delta, China". With: J-S Zheng, I. M. K. So, R. C. N. Fung, Z. Fang and P. K. S. Lam. To: International Symposium on Environmental Behavior and Ecological Impacts of Persistent Toxic Substances, March 18-20, 2004, Matsuyama, Japan.
- (248) "Bioanalytical Techniques for the Measurement of AhR-Active Compounds". To: Technology Benchmarking Workshop For Sediment and Floodplain Remediation, March 25-26, 204, Ann Arbor, Michigan, *Invited Keynote*.
- (249) "Ecotoxicological Risk Assessment of Atrazine in Amphibians". With: K. R. Solomon, L. H. Du Preez, J. A. Carr, T.S. Gross, R.J. Kendall, E.E. Smith and J. Van der Kraak. To: International Congress of Weed Science, June 20-25, 2004, Durban, South Africa. Invited
- (250) "Molecular Biomarkers of Steroidogenesis" To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, China. *Invited, Keynote*
- (251) "Perfluorinated Compounds in the Environment: Where are we, hw did we get here and were are we going". To: Gordon Conference on Environmental Sciences: Water, June 27-July 2, 2004, Plymouth, New Hampshire. *Invited*
- (252) "In vitro dioxin-like potencies of N-heterocyclic PAH". With: I. Sovadinová, R. Vykonálová, J. Janošek, J. Giesy, L. Bláha To: First Biennial Central & Eastern European Environmental Health Conference, International Health Sciences Solving Common Problems, October 24-27, 2004 Prague, Czech Republic.
- (253) "Evaluating Great Lakes Bald Eagle Nesting Habitat With: Bayesian Inference". With: To: 3rd International Wildlife Management Congress, December 1-5, 2003, New Zealand.
- (254) "The Concentration levels of Organic Pollutants its Cell Line Assays from Sediment Samples in Creeks Entering to the Lake Shiwa, Korea". With: Koh, C. H., J.S. Khim and K. Kannan. 2002. To: Proc. Int. Symp. Lowland Technology, September 2002, Saga, Japan.
- (255) "Eological Risk Assessments for Perfluorinated Fatty Acids in the Marine Environment". With: P.D. Jones, J.L. Newsted, M.K. So, S. Taniyasu, N. Yamashita, P.K.S. Lam and R.S.S. Wu. To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, SAR, China. Invited, Plenary Keynote
- (256) "Perfluorinated Compounds in Coastal Seawater in Hong Kong, China and Korea". With: M.K. So, S. Taniyasu, N. Yamashita, P.K.S. Lam, J.S. Zheng, S.H. Im and Z. Fang. To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, SAR, China.

- (257) "Ecological Risk Assessment of Waterbirds due to Environmental Contaminants". With: J.C.W. Lam, S. Tanabe, H.L. Wong, BSF Wong and PKS Lam. To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, SAR, China. ***Invited, Plenary Keynote***
- (258) "Environmental Health Risk Assessment of Organochlorines Associated With: Fish Consumption in a Coastal City in China". With: Q.T. Jiang, K. Chen, TKM Lee, H.L. Wong, J.S. Zheng, KKW Lo and PFS Lam. To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, SAR, China.
- (259) "Perfluorinated Fatty Acids (PFFAS) and Related Compounds in Coastal Seawater in Korea". With: S.H. Im, M.K. So, S. Taniyasu, N. Yamashita, P.K.S Lam, J.S. Zheng and Z. Fang. To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, SAR, China.
- (260) "Perfluorinated Compounds in the Environment: Where are We, How did We Get Here, and Where are We Going". To: Gordon Research Conference, June 27-July 2, 2004, Plymouth New Hampshire. ***Invited Keynote***
- (261) "Perfluorinated Compounds in Seawater Samples of Korea". With: H. H. Im, P. K. S. Lam, N. Yamashita, M.K. So, S. Taniyasu, J. Zheng and Z. Fang. To: Korean Society for Environmental Analysis, International Conference for Environmental Analysis in the 21st Century. June 24-26, Seoul, Korea.
- (262) "Bioanalytical Techniques for Screening for AhR agonist Activities in Environmental Samples". To: 3rd Annual Meeting of the Chinese Toxicology Association. June 13, 2004, Nanjing, China. ***Invited Keynote***
- (263) "Toxicological Perspectives on Perfluorinated Compounds in Avian Species". With: P. D. Jones, To: 24th International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 6-10, 2004, Berlin Germany. ***Invited Keynote***
- (264) "Effect of Exposure Duration on the Aryl Hydrocarbon Receptor-Mediated Activity of Polycyclic Aromatic Hydrocarbons Measured by In Vitro Reporter Gene Assay". With: Masunaga, S., R. Sakashita, T. Furuichi, J. Shirai and K. Kannan. To: 24th International Symposium on Halogenated Environmental Organic Pollutants and POPs, September 6-10, 2004, Berlin Germany.
- (265) "Biochemical screening of AhR- and ER-mediated effects in sediments from the Czech Republic and correlations With: the levels of organic contaminants". With: J. Janošek, M. Polák, J. Klánová, R. Kostrhounová, L. Bláha and I. Holoubek To: Integrated sediment and soil assessment, Brno, Czech Republic, February 10-12, 2005.
- (266) "Monitoring of Poly-fluorinated Compounds in the Environment". With: P. D. Jones, J. L. Newsted, W.-Y. Hu, K. Kannan and D. Villeneuve. To: Workshop to Identify Emerging Contaminants of Concern and Their Implications for the Estuarine/Marine Environment and Human Health. May 11-12, 2005, Charleston, South Carolina. ***Invited Keynote***

- (267) "The Reproductive Biology of the African Clawed Frog, *Xenopus laevis*: A Histometric Analysis." With: L. H. du Preez, G. J. Everson, J. A. Carr, R. J. Kendall, E. E. Smith, G. van der Kraak, and K. R. Solomon. To: 5th World Congress of Herpetology. June 19-24, 2005, Stellenbosch, South Africa.
- (268) "Seasonal Changes in Plasma Sex Steroid Concentrations and Gonadal Growth in Wild African Clawed Frogs, *Xenopus laevis*". M. Hecker, G. J. Everson, M. B. Murphy, J. A. Carr, R. J. Kendall, E. E. Smith, G. van der Kraak, K. R. Solomon, L. H. du Preez,. To: 5th World Congress of Herpetology. June 19-24, 2005, Stellenbosch, South Africa.
- (269) "Perfluorinated Chemicals: A novel Class of Chemicals in the Environment". To: 2nd China International Symposium on Persistent Toxic Substances. May 15-18, 2005, Beijing, Peoples Republic of China. ***Invited Keynote.***
- (270) "The Influence of Land Use/Land Cover on the Accumulation of Mercury in Inland Lakes." To: Geological Society of America, Annual Meeting, October 16-19, 2005, Salt Lake City, Utah.
- (271) "Chemical Induced Changes in Gene Expression Patterns Along the HPG Axis at Different Organizational Levels in the Japanese Medaka ". With: A. Tompsett, J.-W. Park, M. Hecker, P. D. Jones and J. W. Newsted. To: US EPA STAR Computational Toxicology Progress Review Workshop, July 18-19, 2005, Research Triangle Park, North Carolina.
- (272) "Application of in vitro bioassay for study of dioxin-like activity of humic acids". With: M. Bittner., J. Janošek, L. Bláha, K. Hilscherová and I. Holoubek. To: ISTA-12 International Symposium on Toxicity Assessment, June 12-17, 2005, Skiathos Island, Greece. ***Best Paper Award.***
- (273) "Toxicological Evaluation of Perfluorooctanesulfonate (PFOS) in the Environment". To: International Symposium on Fluorinated Alkyl Organics in the Environment, August 18-20, 2005, Toronto, Ontario, Canada. ***Invited, Plenary Keynote***
- (274) "Trace Level Analysis for Per-and Poly-fluorinated Compounds". With: S. Taniyasu, M.K. So, A. Gulkowska, K. Kannan, P.K.S. Lam and N. Yamashita. To: International Symposium on Fluorinated Alkyl Organics in the Environment, August 18-20, 2005, Toronto, Ontario, Canada.
- (275) "Monitoring of Perfluorinated Compounds in Human Breast Milk from Zhoushan, China." With: M.K. So, S. Taniyasu, P.K.S. Lam, Q. Jiang and N. Yamashita. To: FLUOROS: International Symposium on Fluorinated Alkyl Organics in the Environment, August 18-20, 2005, Toronto, Ontario, Canada.
- (276) "Gene Expression Profiles in Rat Liver Treated With: Pentadecafluorooctanic Acid (PFOA)". With: W.Y. Yeung, K.S. Guruge, N. Yamashita, S. Miyazaki, P.K.S. Lam, and N. Yamashita. To: FLUOROS: International Symposium on Fluorinated Alkyl Organics in the Environment, August 18-20, 2005, Toronto, Ontario, Canada.

- (277) "Separation and Characterization of Structural Isomers of Perfluorinated Compounds." With: H. Yoo, P.D. Jones, P.W. Bradley, M... Guzvic, B.L. Uptam, J. E. Trosco and J.L. Newsted. To: FLUOROS: International Symposium on Fluorinated Alkyl Organics in the Environment, August 18-20, 2005, Toronto, Ontario, Canada.
- (278) "In Vitro Bioassay Determination of Dioxin-Like Activity and Estrogenic Activity in Sediment and Biota from Taihu Lake, China." With: Y. Xu, Q. Jiang, M. Song, H. Wong, M.H. Lam, K. Lam, and H. Yu. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (279) "Panax Ginseng Extracts Accelerate TCDD Excretion in Rats". With: J. Moon, C. Lee, P. D. Jones, H. Lim, Y. Kim, D. Kang, K. Ha and Y. Cho. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (280) "Perfluorinated Compounds in Streams of the Shihwa Industrial Zone and Lake Shihwa, South Korea". With: P. Rostkowski, N. Yamashita, M.K. So, S. Taniyasu, P.K. Lam, J. Falandysz, K. Lee, J. S. Khim and K.S. Im. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (281) "Avian Toxicity Reference Values (TRVs) for Perfluorooctanesulfonate (PFOS)." With: J.L. Nested and P.D. Jones. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (282) "PCDDs and PCDFs in Aquatic and Terrestrial Food Webs of the Tittabawassee River, Michigan, USA". With: D. Kay, A. Blankenship, M. Zwiernik, J.L. Newsted and P.D. Jones. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (283) "Identification and Comparison of Gene Expression Profile Responses to PFOA". With: L. Yeung, K. Guruge, P. K. S. Lam, N. Yamashita and S. Miyuzaki. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (284) "Perfluorinated Acids in Mussels and Oysters from South China and Japan". With: M.K. So., S. Taniyasu, P. K. S. Lam, G. Zheng and N. Yamashita. To: 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (285) "Eco-Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment". With: P.D. Jones, J.L. Newsted, D. Kay and M. Shotwell. To: World SECOTOX Conference, September 5-7, 2005, Brno, Czech Republic. Invited Keynote
- (286) "Activation of AH Receptor by Hemic Substances". With: M. Bittner, J. Janošek, L. Bláha, K. Hilscherová, I. Holoubek. To: World SECOTOX Conference, September 5-7, 2005, Brno, Czech Republic.

- (287) “Dioxin-like activity of traffic-contaminated soil samples“. With: J. Janošek, K. Hilscherová, P. Anděl, J. Klánová and I. Holoubek ECOTOX 2005, Advances and Trends in Ecotoxicology, Brno, September 5-7, 2005, Czech Republic.
- (288) “Establishment of model for evaluation of effects of chemicals on steroidogenesis“. With: J. Novák and K. Hilscherová. World SECOTOX Conference, September 5-7, 2005, Brno.
- (299) “Assessment of Risks of PCBs to Wildlife at the Kalamazoo River, Michigan: Mink (*Mustela vison*)“. With: S. Millsap. To: RECETOX Conference ECOTOX 2005, Advances & Trends In Ecotoxicology, September 5-7, 2005, Brno, Czech Republic. Invited Plenary
- (300) “Development of a H295R Cell Screening Test to Evaluate Toxicant-Induced and Hypoxic Effects on Steroidogenesis“. . With: M. Hecker, M. Murphy, T. Gracia, P.D. Jones, X. Zhang, J.L. Newsted, R. Yu and R.S.S. Wu. To: Symposium, Centre for Marine Pollution and Environmental Research and Innovative Technology, City University of Hong Kong, Kowloon, Hong Kong, China, November 30-December 1, 2005.
- (301) “Telomerase in Fish“. With: H. Mok, E.X.W. Chen, R.M.K. Yu, R.Y.C Kong and D.W.T. Au. To: Delegate to Symposium, Centre for Marine Pollution and Environmental Research and Innovative Technology, City University of Hong Kong, Kowloon, Hong Kong, China, November 30-December 1, 2005.
- (302) “Recovery of Biomarkers in Mussel and Fish After Pollution Abatement“. With: J. Fong, A. Chan, G. Zheng, D.W.T. Au, K. Leung, P.K.S. Lam, P.K.S. Lam and R.S.S. Wu. To: Symposium, Centre for Marine Pollution and Environmental Research and Innovative Technology, City University of Hong Kong, Kowloon, Hong Kong, China, November 30-December 1, 2005.
- (303) “Measurement and Assessment of Persistent Organic Pollutants in the Hong Kong Marine Environment“. With: J.C.W. Lam, C.L.H. Hung, Y. Xu, M.H.W. Lam, S. Tanabe, B. J. Richardson and P.K.S. Lam. To: Symposium, Centre for Marine Pollution and Environmental Research and Innovative Technology, City University of Hong Kong, Kowloon, Hong Kong, China, November 30-December 1, 2005.
- (304) “Monitoring of Exposure to and Potential Effects of Contaminants in the Environment” To: 3rd International Conference on Environmental Enhancement and Sustainable Development, Hohhot, Inner Mongolia, China, August 4-8, 2006. ***Invited, Plenary, Keynote.***
- (305) “Uptake of PCDD/DF and potential Effects on Wildlife of the Tittabawassee River, Michigan, USA.” To: 3rd International Conference on Environmental Enhancement and Sustainable Development, Hohhot, Inner Mongolia, China, August 4-8, 2006. ***Invited.***
- (306) “Atrazine and Amphibians: Risks in the Agricultural Landscape“. With: K.R. Solomon, J.A. Carr, L.H. Dupreez, R.J. Kendall, E.E. Smith and G.J. Van Der Kraak. To: Understanding Agriculture’s Effects on Amphibians and Reptiles in a Changing World. St. Louis, MO, February 6-8, 2006. ***Invited.***

- (307) “Environmental concentrations, toxicology, and risk assessment of perfluorinated compounds in China”. With: M.K. So, A. Gulkowska, Q.T. Jiang, S. Taniyasu, L. W.Y. Yeung, N. Yamashita, K.S., Guruge, and P. K.S. Lam. To: Environmental Change in Response to China’s Expansion Day. November 6, 2006. **Invited**
- (308) “Uptake of PCDD/DF and Potential Effects on Wildlife of the Tittabawassee River, Michigan, USA.”. With: P. D. Jones, M. J. Zwiernik, D. L. Tazelaar, J. N. Moore, T. B. Fredricks, S. J. Coefield, R. Seston, P. W. Bradley and D. P. Kay. To 3rd International Symposium on Persistent Toxic Substances. October, 22-25, 2006, Beijing, China. **Invited, Plenary Keynote.**
- (309) “Reproductive Toxicity Assessment of Surface water of Yangtze River Taizhou Section of China by In Vitro Bioassays Coupled With: Chemical Analysis. With: X. Wang, J. Wu, B. Zhu, G. Hu, X. Han, J.P. Giesy, Y Xu, H. Yu. To: 1st International Workshop on Environmental Health and Pollution Control, Oct, 2006 Nanjing Univ Peoples R. China.
- (310) “Effects of PBDEs and PBDE Metabolites on Steroidogenesis in H295R Human Adrenocarcinoma Cells”. With: H. Y. He, M.B. Murphy, L. W.Y. Yeung, R. Song, J. Fu, M.H.W. Lam and P. K.S. Lam. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (311) “Effects of Hypoxia on Gene Expression and Sex Steroid Concentrations in H295R Human Adrenocarcinoma Cells”. With: M.B. Murphy, R. M.K. Yu, Y.C. Chan, E. K.Y Ho, R.C.Y. Yu, D.W.T. Au and R.S.S. Wu. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (312) “Application of the Whole Mount Adult Marine Medaka (*Oryzias melastigma*) Model to Study Telomerase Gene and Protein Expressions in Fish In Vivo”. With: E.X.H. Chen, M.W.L. Chiang, B.W.B Yip, R.M.K. Mok and D.W.T. Au. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (313) “Elucidating Changes in Aromatase (CYP19) Gene Expression in Japanese Medaka (*Oryzias latipes*) Exposed to Fadrazol: In Situ Hybridization in a Whole Animal Model”. With: A.R. Tompsett, J.W. Park, M. Hecker, P.D. Jones, J.L. Newsted, D.W.T Au, E.X.H. Chen and R. S.S. Wu. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (314) “Lysosomal Integrity in Mussel and EROD Activity in Rabbit-Fish: Biomarkers to Detect Recovery from Pollution.” With: J.K.H. Fang, A.K.Y. Chan, D.W.T. Au, W. Liu, G.J. Zheng, P. K. S. Lam, P.K.S. Shin and R.S.S. Wu. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (315) “Persistent Organic Pollutants in Waterbird Eggs from the South China Coastal Region” With: J.C.W. Lam, M.B. Murphy, S. Tanabe, B. Richardson, M. Lam and P. K.S. Lam. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.

- (316) "Identification of the Hif-regulated Steroidogenic Enzyme Genes in H295R Adrenocortical Carcinoma Cells" With: J.K.Y. Chu, R.Y.C. Kong and R. S.S. Wu. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (317) "Comparison of the Fathead Minnow Ovarian Steroidogenesis Assay and the H295R Cell-Based Steroidogenesis Assay for Identifying Endocrine Active Chemicals". With: M. Hecker, M. B. Murphy and R. S.S. Wu. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (318) "Method Development, Monitoring and Risk Assessment of Perfluorinated Compounds in China". With: I.M.K. SO, A. Gulkowska, S. Q.T. Jiang, S. Taniyasu, L.W.Y. Yeung, N. Yamashita and P. K.S. Lam. To: Marine Environmental Research and Innovative Technology, 3rd Annual Symposium, January 4-5, 2007, Hong Kong, China.
- (319) "Atrazine and Amphibians. Risks in the Agricultural Landscape". With: K.R. Solomon, L. Du Preez, N. Kunene, J.A. Carr, R. J. Kendall, E.E. Smith, and G.J. Van Der Kraak. To: Understanding Agriculture's Effects on Amphibians and Reptiles in a Changing World. Feb. 6 & 7, St. Louis, Missouri.
- (320) "Identification and Quantification of a Novel Class of Organic Pollutants." With: J.E. Naile, J.S. Khim, and P.D. Jones. To: 42nd Annual Western Canada Trace Organic Workshop (WCTOW), April 23-25, 2007, Calgary, Alberta, Canada.
- (321) "Human Adrenocarcinoma (H295R) Cells for the Rapid, in vitro Determination of Effects on Steroidogenesis: Gene Expression, Sex Steroid Concentrations and Aromatase Activity". With: J.L. Newsted, M. Hecker, P.D. Joes, J.P. Giesy, R. Yu and R.S.S. Wu. To: International Forum on Computational Toxicology, May 21-23, 2007, Research Triangle Park, North Carolina, USA. ***Invited***
- (322) "Emerging Chemicals in the Environment: Are there more discoveries to be made? Will there be more Surprises?". With: J.L. Newsted, P.K.S. Lam and R.S.S. Wu. To: 5th International Marine Pollution Symposium, June 3-6, 2007, Hong Kong, China. ***Invited, Plenary Keynote***
- (323) "Persistent organic pollutants in the South China coastal region With: special reference to contaminant levels in marine cetaceans and water bird eggs." With: P.K.S. Lam, J.C.W. Lam, S. Tanabe, and B. Richardson. To: 5th International Marine Pollution Symposium, June 3-6, 2007, Hong Kong, China. ***Invited Plenary Keynote***
- (324) "Effects of hypoxia on steroidogenesis in humans and fish in vitro". With: M.B. Murphy, R.M.K. Yu, P.K.S. Ng C.Y.C Chan E.K.Y Ho, R.Y.C. Kong D.W.T Au, and R.S.S. Wu. To: 5th International Marine Pollution Symposium, June 3-6, 2007, Hong Kong, China.
- (325) "Environmental concentrations and risk assessment of perfluorinated compounds in China". With: L.W.Y Yeung, M.K. So, A. Gulkowska S.Q.T Jiang, S. Taniyasu, and N. Yamashita. To: 5th International Marine Pollution Symposium, June 3-6, 2007, Hong Kong, China.

- (326) “Monitoring of Exposure to and Potential Effects of Contaminants in the Environment”. With: J.L. Newsted, P.K.S. Lam and R.S.S. Wu. To: 15th International Conference on Environmental Bioindicators, June 7-9, 2007, Hong Kong, China. ***Invited, Plenary Keynote***
- (327) “Mechanistic Classification of Environmental Endocrine Disrupting Chemicals”. With: X. Zhang, M. Hecker, J.L. Newsted and P.D. Jones. To: 15th International Conference on Environmental Bioindicators, June 7-9, 2007, Hong Kong, China.
- (328) “Measuring and monitoring POPs in the context of risk assessment”. With: R. Wu, A. Chan, B. Richardson, P. Lam, and D. Au. To: 15th International Conference on Environmental Bioindicators, June 7-9, Hong Kong, China. ***Invited Plenary Keynote.***
- (329) “Monitoring For Novel Compounds in the Environment and Status and Trends Of Emerging Pollutants”. With: J.L. Newsted, P.K.S. Lam and R. S. S Wu. To: 5th International Conference on Marine Pollution and Ecotoxicology. June 3-6, 2007, Hong Kong, China. ***Invited Plenary Keynote.***
- (330) “Mass Spectro-photometry- uses in wildlife and animal epidemiology”. With: Paul D. Jones. To: 5th Annual Meeting of the Canadian Animal Health Laboratories Network (CAHLN) and Canadian Association of veterinary Pathologists (CAVP). June 10-13, 2007. Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada. ***Invited Plenary Keynote***
- (321) “Quantification of Perfluorinated Compounds in Food and Tissues: Analytical Challenges of a Novel Class of Compounds”. With: Paul D. Jones, Jonathan E. Naile and Jong Seong Khim. To: Saskatoon International Validation Workshop for Regulatory Analysis of Residues in Foods (SaskVal Workshop). June 10 - 14, 2007, Saskatoon, Saskatchewan, Canada. ***Invited Plenary Keynote***
- (322) “Total fluorine analysis of fish samples using a novel combustion ion chromatography approach.” With: J. Naile, J. S. Khim and P.D. Jones. To: 34th Aquatic Toxicity Workshop, Halifax, Nova Scotia, October 1, 2007.
- (323) “Differential effects of environmental chemicals and selected pharmaceuticals on aromatase activity.” With: E. Higley, J.L. Newsted and M. Hecker, P.D. Jones and X. hang. To: 34th Aquatic Toxicity Workshop, Halifax, Nova Scotia, October 2, 2007. ***Best student poster presentation.***
- (324) “Gene expression and histological structure as biomarkers of chemical exposure in Japanese medaka.” With: A. Tompsett, J.-W. Park, J.L. Newsted, M. Hecker, To: 34th Aquatic Toxicity Workshop, Halifax, Nova Scotia, October 2, 2007. ***Best student platform presentation.***
- (325) “Monitoring For Novel Compounds In The Environment And Status And Trends Of Emerging Pollutants”. With: P.D Jones, P.K.S. Lam and R. S. S. Wu. Beijing Conference and Exhibition on Instrumental Analysis (BCEIA) 2007, Beijing, China, Oct 17-21 2007. ***Invited, Plenary Keynote.***

- (326) “Measuring And Monitoring Persistent Organic Pollutants: A Critique” With: R.S.S. Wu Rudolf, A.Y.Y. Chan, B.J. Richardson, D.T.T. Au, J.K.H. Fong, P.K.S. Lam. To: International Symposium on Biological responses to chemical pollutants”. Ehime Japan, March 6-7, 2008. *Invited, Plenary Keynote*.
- (327) “The Marine Medaka (*Oryzias melastigma*): A New Marine Fish Model for Assessing Stress & Pollution”. With: E.X.H. Chen, R. Kong, R.S.S. Wu and D.W.T. Au. To: Joint MMS Workshop on Marine Environmental Research. January 7-10, 2008, Hong Kong, China.
- (328) “H295R Cells: An in vitro Tool for Screening Endocrine-Disrupting Chemicals & Mixtures.” With: M.B. Murphy, R.M.K. Yu, Y. He, M.H.W. Lam, M. Hecker, T. Gracia, P.K.S. Lam and R.S.S. Wu. To: Joint MMS Workshop on Marine Environmental Research. January 7-10, 2008, Hong Kong, China.
- (329) “Genomics Opportunities for Freshwater Stewardship and Sustainable Development in Canada”. To: Annual meeting of the Saskatchewan River Delta Association, April 2, 2008, Saskatoon, SK, Canada.
- (330) “Evaluation of Environmental Endocrine Disrupting Chemicals Using the Medaka HPG Axis Model”. With: X. Zhang, M. Hecker, J. L. Newsted, A. R. Tompsett, J-W. Park and P.D. Jones. To: 5th International Symposium on Persistent Toxic Substances”. September 21-24, 2008, Beijing, China.
- (331) “Biomagnification Factors of PCDD/Dfs for Great Blue Heron and Belted Kingfisher Residing in the Tittabawassee River Flood Plain, MI, USA.” With: R.M. Seston, M.J. Zwiernik, T.B. Fredricks, D.L. Tazelaar, J.N. Moore, S.J. Coefield, P.W. Bradley, M. S. Shotwell, and Denise P. Kay. To: Dioxin 2008: 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs). August 17-22, 2008, Birmingham, UK.
- (332) “Characterization of Mixed Function Monooxygenase Genes CYP1A1 and CYP1A2 in Mink (*Mustela vison*) Exposed to Polychlorinated Dibenzofurans (PCDFs).” With: J.N. Moore, J.L. Newsted, M.J. Zwiernik, M. Hecker, P.D. Jones and S.J. Bursian. To: Dioxin 2008: 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs). August 17-22, 2008, Birmingham, UK.
- (333) “Effects of Polychlorinated Dibenzofurans on Mink.” With: D.P. Kay M. Zwiernik, S.J. Bursian, K. Beckett, L. Aylward, R. Budinsky, Melissa Shotwell, J.N. Moore, and J.L. Newsted. To: Dioxin 2008: 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs). August 17-22, 2008, Birmingham, UK.
- (334) “Hepatic P450 Enzyme Activity, Tissue Morphology and Histology of Mink (*Mustela Vison*) Exposed to Polychlorinated Dibenzofurans (PCDFs).” With: J.N. Moore, J.L. Newsted, M. Hecker, M.J. Zwiernik, S.D. Fitzgerald, D. P. Kay, X. Zhang, Eric B. Higley, L.L. Aylward, K.J. Beckett, R.A. Budinsky, S. J. Bursian. To: Dioxin 2008: 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs). August 17-22, 2008, Birmingham, UK.

- (335) "Application of a medaka HPG axis real time PCR array method to chemical screening". With: X. Zhang, M. Hecker, A. Tompsett, J. Newsted, and P. Jones. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (336) "White sturgeon growth, morphology, and survival after exposure to Columbia River surface water at two sites in British Columbia, Canada. With: A. Tompsett, D. Vardy, M. Hecker, S. Wiseman, H. Zhang, and K. Liber. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (337) "In vitro evaluation of the toxic effects and endocrine disrupting potential of oil sands processed water and naphthenic acids. With: X. Zhang, S. Wiseman, E. Higley, P. D. Jones, M. Hecker, M. Gamel El Din, and J. W. Martin. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (338) "Aquatic toxicology of perfluorooctanesulfonate and related fluorochemicals With: J. Naile, J. Khim, J. Newsted, and P. Jones. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (339) "Toxicity of perfluorooctane sulfonate (PFOS) to avian wildlife: ambient safe water value derivation and uncertainty analysis. With: J. Newsted, J. Naile, J. Khim, and P. Jones. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (340) "Sensitivity of early white sturgeon (*Acipenser transmontanus*) life-stages to copper, cadmium, and zinc". With: D. Vardy, A. Tompsett, M. Hecker, J. Duquette, D. Janz, K. Liber, and M. Adzic. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (341) "Assessment of toxicity of upper Danube River sediments using a combination of chemical fractionation, the *Danio rerio* embryo assay and the Ames fluctuation test. With: E. Higley, S. Grund, T. Seiler, U. Vare, W. Brack, T. Schulz, J. Wolz, H. Zielke, H. Hollert and M. Hecker. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (342) "Medaka : an in vivo model for molecular ecotoxicology. With: D.W.T. Au,. To 35 Annual Aquatic Toxicity Workshop, October 5-8, 2008, Saskatoon, SK.
- (343) "Effect of Hypoxia on Reproduction and Sex Differentiation in Fish". With: R. Wu, D. Randall, E. Shang, C. Cheung, J. Chu, D. Au, R. Kong and M. Murphy. To: Marine Environmental Research and Innovative Technology, 5th Annual Symposium, January 5-6, Hong Kong, China.
- (344) "Biochemical Markers in Mussels". With: M.B. Murphy, J.C.W Lam, B.J. Richardson, R.S.S. Wu and P.K.S Lam. To: Marine Environmental Research and Innovative Technology, 5th Annual Symposium, January 5-6, 2009, Hong Kong, China.
- (345) "Development of Biomarkers in Fish Exposed to Hypoxia, Xenobiotics and Red Tide Toxin." With: C. Wong, R. Kong, N. Woo and D. Au. To: Marine Environmental Research and Innovative Technology, 5th Annual Symposium, January 5-6, 2009, Hong Kong, China.

- (346) "Relating Muscle Telomerase to Fish Growth". With: R. Kong and D. Au. To: Marine Environmental Research and Innovative Technology, 5th Annual Symposium, January 5-6, 2009, Hong Kong, China.
- (347) "Ecological Risk Assessments (ERAs) of Trace Persistent Pollutants. With: P.K.S. Lam, B.J. Richardson, D. Connell, M.H.W. Lam, M. Martin, M.B. Murphy, N. Yamashita and L.W.Y. Yeung. "To: Marine Environmental Research and Innovative Technology, 5th Annual Symposium, January 5-6, 2009, Hong Kong, China.
- (348) "Genomics for Improved Freshwater Stewardship". With: S. Wiseman and X. Zhang. To: 2nd International Conference on Pollution Control and Resource Reuse for a Better Tomorrow and Sustainable Economy. April 1-3, 2009, Nanjing, China.
- (349) "Endocrine Disruptor Mechanisms and Screening: Beyond Receptor Binding". With: M. Hecker, X. Zhang, and D. Au. To: International Conference on Water Pollution and Management, May 23-27, 2009, Suzhou, China. Invited Plenary Keynote
- (350) "Toxicity pathway-based approaches to evaluate the impact of environmental chemicals". With: X. Zhang, S. Wiseman, M. Hecker, and P. Jones. With: To: International Conference on Water Pollution and Management, May 23-27, 2009, Suzhou, China.
- (351) "Biological factors of importance in the bioaccumulation of dioxins in aquatic ecosystem". With: Y. Wan, P. Jones, and J.Y. Hu. With: To: International Conference on Water Pollution and Management, May 23-27, 2009, Suzhou, China.
- (352) "Risk to Humans of Consuming Metals in Anchovy (*Coilia* sp.) from the Yangtze River Delta". With: J. Ge, Fengyan Liu, Xin Hu, Zhiqiang Xu, Yuan Jiang. To: International Conference on Water Pollution and Management, May 23-27, 2009, Suzhou, China.
- (353) "Development of the medaka HPG model for molecular toxicology" With: D. Au, X. Zhang, A. Tompsett, R. Kong, M. Hecker, R. Wu, and J. P. Giesy. To: 16th International Congress of Comparative Endocrinology, June 22-26, 2009, Hong Kong, China. **Invited**
- (354) "Development of Fluorescence in situ Hybridization Techniques to Detect and Quantify Gene Expression Profiles. With: P.D. Jones. To: 17th International Conference on Bioindicators, Moscow, Russia May 18-22nd 2009. **Invited, Plenary Keynote**
- (355) "Impact of chlorinated dioxins and furans on Japanese quail, ring-necked pheasant, and domestic chicken: insights from in ovo studies." With: Y. Yang, S.B. Steve, J.C. Hervé, R. Farmahin, T.B. Fredricks, P.W. Bradley, A. Cohen-Barnhouse, Y. Wan, P.D. Jones, J.L. Newsted, S.W. Kennedy, M.J. Zwernick, S.J. Bursian, J.P. Giesy. To: Dioxin 2009: 29th International Symposium on Halogenated Persistent Organic Pollutants (POPs). August 23-28, 2009, Beijing, P.R. China.
- (356) "The Ligand Binding Domain-The Key to the Classification of Avian Sensitivity to Dioxin-Like Compounds". With: R. Farmahin, D. Wu, S.J. Bursian, D Crump, M.E. Hahn, S.P. Jones, S.I. Karchner, L.J. Mundy, M.J. Zwiernik and S.W. Kennedy. To: XII International Congress of Toxicology, July 11-15, 2010, Barcelona, Spain.

- (357) “Anthropogenic and Naturally Occurring Bromine Compounds in the Marine Environment. With: Y. Wan, S. Wiseman, H. Chang, M. Hecker and P.D. Jones. To: 6th International Conference on Marine Pollution, May 31 – June 3, 2010, Hong Kong. Invited Plenary Keynote
- (358) “Assessment of Risk of PFOA and PFOS Contamination in Hong Kong Fish Samples and their Effects on Growth and Reproduction in Mice” With: YG Zhao, X Wei, Y Wan, H Chang, JS Zheng, John P. Giesy, MH Wong, Chris KC Wong. To: 6th International Conference on Marine Pollution, May 31 – June 3, 2010, Hong Kong.
- (359) “Enrichment of Organochlorine Pesticides (OCPs) and Polychlorinated Biphenyl (PCBs) in Hong Kong Sediments from Mariculture Zones.” With: H.S. Wang, P. Liang, H.M. Leung, C.K.C. Wong, and M.H. Wong. To: 6th International Conference on Marine Pollution, May 31 – June 3, 2010, Hong Kong.
- (360) “Assessment of Risk of PCDD/Fs in Marine and Freshwater Fishes Cultivated in Pearl River Delta, China.”. With: X. Wei, K.S. Leung, M.H. Wong, Z.W. Cai, K.C. Wong. To: 6th International Conference on Marine Pollution, May 31 – June 3, 2010, Hong Kong.
- (361) “Construction of a Suppression Subtractive Hybridization (SSH) Library for the Marine Medaka *Oryzias melastigma* Challenged With: *Vibrio parahaemolyticus*.” With: J. Bo, G. Claireaux and D.W. Au. To: 6th International Conference on Marine Pollution, May 31 – June 3, 2010, Hong Kong.
- (362) “Effects of Environmental Contaminants on Male and Female Fertility in Saskatchewan: A Pilot Study” With: A. Sielski, H. Vanden Brink, A. Case, A. Gamelin and A. Baerwald. To: 56th Annual meeting of the Canadian Fertility and Andrology Society, September 29-October 2, 2010, Vancouver, BC, Canada.
- (363) “Perfluorinated compounds in the environment: Story of an environmental contaminant”. Saskatchewan Epidemiology Association 2010 Symposium entitled “Exposing ourselves: investigating everyday environments and their health impacts” October 21, 2010, Saskatoon, Saskatchewan. ***Invited, Plenary Keynote.***
- (364) “Residual and weathering characteristics of crude-derived hydrocarbons in coastal sediments of Taean area after two years of the Hebei Spirit oil spill. With: S.-J. Hong, J.-H. Khim, J.-S. Park, S.-J. Song, J.-S. Ryu, K. Choi, K. Ji, J. Seo, S. Lee, W.-J. Lee, J. Park, Y. Choi, and J. E. Naile. To: 2nd Winter Symposium on Emerging and Persistent Organic Pollutants, Gyeong-Ju, Korea, February 17-18, 2011.
- (365) “Bioaccumulation and uptake pathways of perfluorinated compounds in marine organisms collected from the western coasts of Korea”. With: J.-S. Park, J.-S Khim, S.-J. Hong, M.-K. Kim, S.-J Song, J.-S Ryu, and J. E. Naile. To: 2nd Winter Symposium on Emerging and Persistent Organic Pollutants, Gyeong-Ju, Korea, February 17-18, 2011.

- (366) “Anthropogenic and Naturally Occurring Brominated Compounds in the Marine Environment”. To: 2nd Winter Symposium on Emerging and Persistent Organic Pollutants, Gyeong-Ju, Korea, February 17-18, 2011. *Invited, Plenary Keynote.*
- (367) “Applying State of the Art Genomics Technology to OSPW Remediation” With: S. Wiseman, J. Anderson, K. Liber, M. Hecker To: Annual Meeting of the North American Society of Comparative Endocrinology, Lansing Michigan, July 13 to 16, 2011
- (368) “Brominated Compounds in the Environment: Something Old and Something New”. To: 38th Annual Aquatic Toxicity Workshop (ATW), Winnipeg, Manitoba, October 2-5, 2011. *Invited, Plenary Keynote.*
- (369) “Bottom-up and top-down: Do The Risk Assessments Meet in the Middle?” 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong. *Invited, Plenary Keynote.*
- (370) “Assessing Chemical-Induced Toxicity Using a Microbial Genome-Wide, Live Cell Reporter Array System”. With: X.W. Zhang, G. Su, H. Liu, S. Wiseman and M. Hecker. To: 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong.
- (371) “Hypoxia-inducible Factors (HIFs) and Associated Micro-RNAs in Regulation of Steroidogenesis: Bioinformatic and Expression Studies”. With: G. Chaturvedi, T.F. Tan, R.S.S. Wu and R.Y.C. Kong To: 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong.
- (372) “Perfluorinated Compounds in Sediments and Biota from Pearl River Delta Water System of South China” With: Y.G. Zhao, X. Wei, H.T. Wan, M.H. Wong and C.K.C. Wong. To: 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong.
- (373) “Innate Immune-Relevant Gene Identification and Gender Differential Expression in the Marine Medaka (*Oryzias melastigma*) Challenged With: *Vibrio parahaemolyticus*”. With: J. Bo and D.W.T. Au. To: 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong.
- (374) “Effects of Hypoxia-inducible Factors on Steroidogenesis: Identification of Molecular Biomarkers of Endocrine Disruption”. With: G. Chaturvedi, S. Nursing, R.S.S.S. Wu and R.Y.C. Kong. To: 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong.
- (375) “Estrogen Receptors (ERs) and Estrogen-Related Receptors (ERRs) in the Japanese Medaka (*Oryzias latipes*)”. With: A.C.K. Cheung, W. Ge and D.W.T. Au. To: 15th Biennial International Symposium on Toxicity Assessment, July 3-8, 2011, Hong Kong.
- (376) “Chronic Exposure to Dietary Selenomethionine Increases Gonadal Steroidogenesis in Female Rainbow Trout.” With: S. Wiseman,, J.K. Thomas, E. Higley, O. Hursky, M. Pietrock, J.C. Raine, D.M. Janz, M. Hecker. To: 38th Aquatic Toxicity Workshop, October 2-5, 2011, Winnipeg, Manitoba, Canada.

- (377) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. With: Y. Wan, S.B. Wiseman, X.W. Zhang, H. Chang, M. Hecker, P.D. Jones, F.-T. Liu, M.H.W. Lam, K. Choi, S. Kim, K. Ji, J.S. Khim, S. Park, S. Park, J. Park. To: 38th Aquatic Toxicity Workshop, October 2-5, 2011, Winnipeg, Manitoba, Canada. *Invited Plenary Keynote*.
- (378) “Biochemical and Molecular Responses of White Sturgeon (*Acipenser transmontanus*) to an Aryl Hydrocarbon Receptor Agonist”. With: J. Doering, S. Wiseman, S. Beitel, B. Tendler, and M. Hecker. To: 38th Aquatic Toxicity Workshop, October 2-5, 2011, Winnipeg, Manitoba, Canada.
- (379) “Reconstructing the Past Environmental Conditions of Lake Diefenbaker”. With: B.T. Lucas, K. Liber, P.D. Jones, J. Sereda, L. Bharadwaj, J. Hudson, D.H. De Boer, H.S. Wheeler and L.E. Doig. To: 38th Aquatic Toxicity Workshop, October 2-5, 2011, Winnipeg, Manitoba, Canada.
- (380) “Fecal Sterol Analysis of Ross Lake Sediment Cores”. With: T.J. Tse, L.E. Doig, K. Liber, J. Sereda, L.A. Bharadwaj, D. De Boer, H. Wheeler and P. D. Jones. To: 38th Aquatic Toxicity Workshop, October 2-5, 2011, Winnipeg, Manitoba, Canada.
- (381) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds”. To: Toxicology Centre, University of Saskatchewan.
- (382) “Unraveling Tissue-Specific Mechanisms for In Vivo Regulation of Estrogen Target Genes in Medaka”. With: N.K.M. Cheung, W. Ge, A.C.K. Cheung, T.R.R. Ye and D.W.T. Au. To: Annual Meeting of the State Key Laboratory in Marine Pollution, Hong Kong, January 7, 2012, Hong Kong, SAR, China.
- (383) “Health Risk Assessments of Residents in the Pearl River Delta, Exposed to Brominated Flame Retardants (BFRs)”. With: MH Wong, H.S. Wang, BYB Man, PKS Lam, CKC Wong and P.D. Jones. To: Annual Meeting of the State Key Laboratory in Marine Pollution, Hong Kong, January 7, 2012, Hong Kong, SAR, China.
- (384) “Effect of HIF Transcription Factors on MicroRNA Expression and Steroidogenesis in the H295R Human Adrenocortical Cell Line”. With: S. Nursing, R.S.S. Wu and R.Y.C. Kong. To: 7th Annual Marine Environmental Research and Innovative Technology (MERIT) Symposium, January 5-6, 2012, Hong Kong.
- (385) “Studies of Immune Function and Their Responses to Dietary BDE-47 in the Marine Medaka (*Oryzias melastigma*)”. With: R.R. Ye, E.N.Y. Lei, J. van der Morwe, A.K.Y. Chan, M.H.W. Lam, H. E. Segner, A.C.C. Fong, M.M.S. Yang, J.S. Lee, C.K.C. Wong, K.-J. Wang, R.S.S. Wu and D.W.T. Au. To: 7th Annual Marine Environmental Research and Innovative Technology (MERIT) Symposium, January 5-6, 2012, Hong Kong.
- (386) “Sex-Dependent and Tissue-Specific Expression Profiling of Estrogen Receptors (ERs) and Estrogen-Related Receptors (ERRs) in Japanese Medaka (*Oryzias melastigma*)”. With: A.C.K. Cheung, N.K.M. Cheung, R.R. Ye, W. Ge, and D.W.T. Au. To: 7th Annual Marine

Environmental Research and Innovative Technology (MERIT) Symposium, January 5-6, 2012, Hong Kong.

- (387) "Coagulation/Flocculation/Sedimentation Treatment of Oil Sands Process Affected Water". With: Pourrezaei, P., L.A. Perez-Estrada, J. Anderson, S. Wiseman, K. Liber, J. Martin, and M. Gamal El-Din. To: Water Conference and Workshops, March 20 - 22, 2012, Edmonton, Alberta, Canada.
- (388) "Preliminary Studies Focused on Chemical Treatment of Mature Fine Tailings Using SANTEK[®] Technology". With: O. Mohammadzadeh. To World Heavy Oil Congress, September 10-13, 2012, Aberdeen Scotland, UK.
- (389) "Dissolved Organic Compounds Removal from Oil Sands Process Water by Coagulation/Flocculation". With Pourrezaei, P., P. Drzewicz, Y. Wang, M.G. El-Din, L.A. Perez-Estrada, J.W. Martin and K. Liber. 2011. Proc. IASTED International Conf. Unconventional Oils and the Environment. ENV 2011. July 4-6, 2011, Calgary, Alberta, Canada (pp. 220-221).
- (390) "Toxicogenomic Screening on Environmental Chemicals Using a Live Cell Array System". To: 21st Symposium on Environmental Chemistry. With: X. Zhang, G. Su, and H. Yu. May 2012, Ehime, Japan.
- (391) "Coagulation/Flocculation/Sedimentation Treatment of the Oil Sands Process-Affected Water". With: P. Pourrezaei, P. Drzewicz, Y. Wang, L. A. Perez-Estrad, J. W. Martin, J. Anderson, S. Wiseman, K. Liber, M. Gamal El-Dina. To: 12th International Environmental Specialty Conference, June 6-9, 2012, Edmonton, Alberta, Canada.
- (392) "Toxicogenomic Screening of Environmental Chemicals Using a Live-cell Array System". With: Zhang, X., G. Su, H.-X. Yu, and J.P. Giesy. To: 21st Symposium on Environmental Chemistry, 2012, Ehime Japan.
- (393) "Brominated Chemicals in the Environment". To: Scientific Committee on Problems in the Environment" To: Acientific Committee on Problems of the Environment (SCOPE)-Zhongyu Environmental Forum 2012, Oxtober 11-14, Taiyuan, Shanxi Province, China.
- (394) "Community Sussession Analysis of naturally Colonized Plants on Coal Gob Piles in Datong Mining Areas of Shanxi Province, Chia". With: S.-Q. Li and K. Liber. To: Acientific Committee on Problems of the Environment (SCOPE)-Zhongyu Environmental Forum 2012, Oxtober 11-14, Taiyuan, Shanxi Province, China.
- (395) "Brominated Chemicals in the Environment: Natural or Artificial". To: 44th Annual Symposium of the Society of Toxicology of Canada, 44th Annual Meeting, Theme: Frontiers of Toxicology: New Questions, New Methods and New Approaches, December 2-3, 2012, Montreal Quebec, Canada, Invited, Plenary, Keynote
- (396) "Brominated Chemicals in the Marine Environment: Natural or Artificial". To: 7th International Conference on Marine Pollution, June 17-21, 2013, Hong Kong. Invited, Plenary, Keynote

- (397) “Determining Dioxin-like Potency and PAHs in a Platinum Smelter Using A Luminescence Transactivation Gene Bioassay. With: R.M.P. Prinsloo, R. Pieters, and L. van Rensburg. To: 16th Biennial Meeting of the International Symposium on Toxicity Assessment (ISTA), February 21-26, 2013, Cape Town, South Africa.
- (398) “Quantification of PAHs and PCBs in The Kwini River System, using Chemical and Biological Analysis.” With: N.L. Vogt, R. Pieters, and B. Newman. To: 16th Biennial Meeting of the International Symposium on Toxicity Assessment (ISTA), February 21-26, 2013, Cape Town, South Africa.
- (399) “The Aryl Hydrocarbon Receptor Signaling Pathway of Fishes: Implications for sturgeon Sensitivity to Dioxin-like Compounds” With: J. Doering, S. Wiseman, B. Beitel and M. Hecker. To: Aquatic Toxicology Workshop, September 30-October 3, 2012, Sun Peaks, British Columbia, Canada.
- (400) “Transcriptomic Effects of Exposure to alpha-ethynlestradiol During Sexual Differentiation on Genetic Male *Xenopus laevis*”. With: M. Hecker, A. Tompsett, S. Wiseman and E. Higley. To: Aquatic Toxicology Workshop, September 30-October 3, 2012, Sun Peaks, British Columbia, Canada.
- (401) “Reconstructing the Past Nutrient Status of Lake Diefenbaker, a Canadian Great Plains Reservoir, using Poleolimnological Techniques”. With: B. Lucas, K. Liber, P. Jones, H. Wheeler and L. Doig. To: Aquatic Toxicology Workshop, September 30-October 3, 2012, Sun Peaks, British Columbia, Canada.
- (402) “Toxicity of Untreated and Ozone-Treated Oil Sands Process Affected Water on Early Life States of the Fathead Minnow (*Pimephales promelis*)”. With: S. Patterson, Y. He, M. Hecker, J. Martin, M. El-Din and S. Wiseman. To: Aquatic Toxicology Workshop, September 30-October 3, 2012, Sun Peaks, British Columbia, Canada.
- (403) “In Vitro Assessment of AhR-mediated Activity and Steroidogenic Potential of factors from Oil Sands Process-Affected Water. With: L. Leclair, L. Pohler, S. Wiseman, Y. He, S. Scully, B. Wagner, M. van den Heuvel and N. Hogan.”. To: Aquatic Toxicology Workshop, September 30-October 3, 2012, Sun Peaks, British Columbia, Canada.
- (404) “Monitoring Legacy and Emerging Organic Pollutants: The Great Lakes Sediment Surveillance Program (GLSSP). With: A. Li, K.J. Rockne, J.P. Giesy, N. Sturchio, J.-H. Guo, S.M.C. Bonina, M.B. Corcoran, G. Codling, C. Smalley, Y. Wang, and A.L. Sandy. To: 2013 International Congress on Chemical, Biological and Environmental Sciences (ICCBES), January 8-10, 2013 in Taipei, Nationalist China.
- (405) “Setting Criteria to Protect Ecosystem Structure and Function”. The 1st International Conference on Environmental Safety and Ecological Criteria (ICESEC 2013), June 24-25, 2013 Nanjing, China. Invited Plenary Keynote
- (406) “Investigating Endocrine Potentials of Hospital Sewage Effluents after Different Treatments Applying the LYES and H295R Assay”. With: T. Floehr, S.X. Maletz, S. Beier, C.

Klümper, E. Higley, J. Giesy, M. Hecker, J. Pinnekamp, H. Hollert. To: (ICWRER, Koblenz, 2013.)

- (407) “Review of Measured Concentrations of Triphenyltin Compounds in Marine Ecosystems and Meta-Analysis of the Risks to Humans and the Environment”. With: A. Xi, K.M.Y. Leung, M.H.W. Lam and J.S. Lee. To: Annual Meeting of the State Key Laboratory inr Marine Pollution, Hong Kong, January 12-14, 2013, Shenzhen, China.
- (408) “Identification of Differentially Expressed Genes and Quantitative Expression of Complement Genes in the Liver of Marine Medaka (*Oryzias melastigma*) Challenged With: *Vibrio parahaemolyticus*”. With: J. Bo, R. Ye, K.J. Wang, J.S. Lee and D.W.T. Au. To: Annual Meeting of the State Key Laboratory inr Marine Pollution, Hong Kong, January 12-14, 2013, Shenzhen, China.
- (409) “Leptin-Mediated Modulation of Steroidogenic Gene Expression in Hypoxic Zebrafish Embryos”. With: R.M. Yu, D.L. Chu, T.F. Tan, V.W. Li, A.K. Chan, J.H. Cheng, R.S.S. Wu, and R.Y. Kong. To: Annual Meeting of the State Key Laboratory inr Marine Pollution, Hong Kong, January 12-14, 2013, Shenzhen, China.
- (410) “Estrogen Receptors (ERs) and Estrogen-Related Receptors (ERRs) in the Japanese Medaka (*Oryzias latipes*)”. With: A.C.K. Cheung, W. Ge, and D.T.W. Au. To: Annual Meeting of the State Key Laboratory inr Marine Pollution, Hong Kong, January 12-14, 2013, Shenzhen, China.
- (411) “Hydroxylated and Methoxylated Polybrominated Diphenylethers in Blood Plasma of Humans in Hong Kong”. With: H.S. Wang, Z.J. Chen, K.L. Ho, L.C. Ge, M.H.W. Lam, M.H. Wong and C.K.C. Wong. To: Annual Meeting of the State Key Laboratory inr Marine Pollution, Hong Kong, January 12-14, 2013, Shenzhen, China.
- (412) “Epigenetic Effects of Hypoxia on Steroidogenesis in H295R Human Adenocarcinoma Cells”. With: S. Nusrin, S.K.H. Tong, R.S.S. Wu and R.Y.C Kong. To: Annual Symposium of the Centre for Marine Environmental Research and Innovative Technology (MERIT) January 10-11, 2013 Hong Kong, China.
- (413) “The Synthesis and Characterization of Glucuronide and Sulfate Conjugates of Bromophenols, Bisphenol-A (BAP) and Tetrabromobisphenol-A (TBBPA) for Their Direct LC-MS/MS Quantificatin in Human Urine as Personal Exposure Markers for Various Endocrine Disrupting Chemicals (EDCs)”. With: K.-L. Ho, M.. Murphy, Y. Wan, B.M.W. Fong, Sidney Tam, K.S.Y Leung and M.H.W. Lam. To: Annual Symposium of the Centre for Marine Environmental Research and Innovative Technology (MERIT) January 10-11, 2013, Hong Kong, China.
- (414) “Development of the Seawater *Oryzias melistigma* as a Marine Fish Model for Immunotoxicology”. With: R.R. Ye, J. Bo, E.N.Y. Lei, M/H.W. Lam, M.M.S. Yang, C.K.C. Wong, R.S.S. Wu, J.S. Lee, H.E. Segner and D.W.T. Au. To: Annual Symposium of the Centre for Marine Environmental Research and Innovative Technology (MERIT) January 10-11, 2013, Hong Kong, China.

- (415) "Sedimentation Rates in Lake Michigan Using 201Pb, 137CS and 241Am." With: M. Corcoran, N. Sturchio, A. Poyhosyan, A. Li, K. Rockne. To: International Association of Great Lakes Research (IAGLR) 56th Annual Conference on Great Lakes Research. June 2-6, 2013, West Lafayette, Indiana.
- (416) "Spatial Distribution and Time Trends of Organic Pollutants in Sediments of Lake Michigan. With: J. Gao, A. Li, K.J. Rockne and N.C. Sturchio. To: International Association of Great Lakes Research (IAGLR) 56th Annual Conference on Great Lakes Research. June 2-6, 2013, West Lafayette, Indiana.
- (417) "Regional Analysis of Temporal Trends in Concentrations of Polychlorinated Biphenyls in Lake Sediments". With: Y. Wei, R.G. Vannier, A.M. Robinson, T. C. Voice, and D.T. Long. To 14th International Conference on Environmental Science and Technology (CEST), September 5-7, 2013, Athens Greece.
- (418) "Low Cost Screening for Chlorinated Dioxins and Furans in Soil and Sediment Samples using Bio-Assay and GCxGC-TOFMS, With: Method Confirmation by GC-HRT and GCxGC-HRT. With: J. de Vos, L. Quinn, C. Roos, R. Pieters, P. Gorst-Allman, E. Rohwer, and H. Bouwman. To: 37th International Symposium on Capillary Chromatography and 10th GCxGC Symposium (ISCC and GCxGC 2013, May 12-16, 2013, Palm Springs, California.
- (419) "More Insights into Chemical Treatment of Fluid Fine Tailings (FFT) With: IPC Technology. With: O. Mohammadzadeh. To: Tailings and Mine Waste 2013, November 3-6, 2013, Banff, AB.
- (420) "Reconstructing the Past Nutrient Status of Lake Diefenbaker using Depositional Sediments and Paleolimnological Techniques". With: B.T. Lucas, K. Liber, P.D. Jones, H.S. Wheeler and L.E. Doig. To: Annual Meeting on Lake Diefenbaker of Global Institute for Water Security, Saskatoon, SK, Canada, April 2013.
- (421) "Toxicity profiles of water samples from Swift Current Creek and the City of Saskatoon Storm-Water runoff as determined by Effect Directed Analysis." With: M. Hecker, M. Waiser, A. Cessna, G. Putz, G. Codling, V. Tumber, H. Yuan, S. Beitel, E. Higley and P. Jones. To: Annual Meeting on Lake Diefenbaker of Global Institute for Water Security, Saskatoon, SK, Canada, April 2013
- (422) "Effect of Different Sample Preparatory Protocols on the Induction of the Aryl Hydrocarbon Receptor (AhR) in the H4IIE-luc Reporter Gene Bio-assay". With: C.R. Swiegelaar, R. Pieters and LP Quinn. To: 37th International Symposium on Capillary Chromatography and 10th GCxGC Symposium (ISCC and GCxGC 2013, May 12-16, 2013, Palm Springs, California, USA.
- (423) "Status and Trends of Contaminants in the Yellow Sea and International perspective." With: Y.-L Lu, T Wang, W Luo and J S Khim. To: 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21-, 2013, Hong Kong, PR China. Invited, Plenary Keynote

- (424) “The Role of Leptin in Hypoxia-Induced Endocrine Disruption in Fish.” With: R.M.K. Yu, R.S.S. Wu, S.H. Cheng, and R.Y.C. Kong. To: 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21-, 2013, Hong Kong, PR China.
- (425) “Would Microalgae be the Source of Hydroxylated and Methoxylated Polybrominated Diphenyl Ethers in the Marine Environment?”. With: B.H.K. Po, K.L. Ho, M.H.W. Lam, J.M.Y. Chiu and R.S.S. Wu. To: 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21-, 2013, Hong Kong, PR China.
- (426) “Role of Hypoxia-Inducible MicroRNA miR-10b in Regulation of CYP11B1 and CYP11B2 Steroidogenic Enzyme Genes in H295R Cells”. With: S. Nusrin, K.H. Tong, G.Chaturvedi, R.S.S.Wu,and R.Y.C. Kong. To: 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21-, 2013, Hong Kong, PR China.
- (427) “Organ-Specific and Sex-Dependent Expression of Estrogen and Estrogen-Related Receptors in Japanese Medaka (*Oryzias latipes*). With: N.K.M. Cheung, R.R. Ye, W. Ge, and D.W.T. Au. To: 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21-, 2013, Hong Kong, PR China.
- (428) “Exposure, Toxicology and Risk Assessment of PBDE analogues in the Environment.” With: X.W. Zhang, G.Y. Su, R. Zhang, J. Xia and H.X. Yu. To: 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21-, 2013, Hong Kong, PR China.
- (429) “Ecotoxicological Evaluation of Perfluorooctanesulfonate (PFOS) in the Environment.” International Conference on Environmental Safety and Ecological Criteria, June 30-July 2, 2013, Nanjing, PR China. Invited, Plenary, Keynote.
- (430) “A Tiered Risk Assessment of Pentachlorophenol Based on Chinese Species” International Conference on Environmental Safety and Ecological Criteria, June 30-July 2, 2013, Nanjing, PR China.
- (431) “Aquatic Sediment as Indicator and Chronological Recorder of Chemical Pollution – The Great Lakes Experience”. With: A. Li, K.J. Rockne, N. Sturchio, and Y. Wang. To: 10th International Symposium on Persistent Toxic Substances (ISPTS). August 13-17, 2013 Edmonton, Alberta, Canada.
- (432) “Spatial Distribution of Flame Retardants in Lake Superior Sediment”. With: Z. Li, J.H. Guo, A. Li, K.J. Rockne and N.C. Sturchio. To: 10th International Symposium on Persistent Toxic Substances (ISPTS). August 13-17, 2013 Edmonton, Alberta, Canada.
- (433) “Effect of sample preparation on induction of aryl hydrocarbon receptor (AhR)-Mediated Response of H4IIE-luc reporter gene bio-assay”. With: C.R. Swiegelaar, R. Pieters, J. De Vos and L.P. Quinn. To: 33 International Symposium on Halogenated, Persistent Organic Pollutants and POPs, August 25-30, 2013, Daegu, Republic of Korea.
- (434) “Persistent Organic Pollutants and Selected Toxicants in Soils of South Africa”. With:

L.P. Quinn, R. Pieters, C. Roos, . Bouwman, . Brits, C. Swiegelaar J. De Vos. To: 33 International Symposium on Halogenated, Persistent Organic Pollutants and POPs, August 25-30, 2013, Daegu, Republic of Korea.

- (435) "Sorption and chemical effects of zero-valent iron nanoparticles in removal of waterborne estrogens". With: B. Jarošová J. Filip, K. Hilscherová, J. Tuček Z. Šimek L. Bláha and R. Zbořil. To: Second European Symposium on Water Technology & Management, November 20-21, 2013, Leuven Belgium.
- (436) "More Insights into Chemical Treatment of Fluid Fine Tailings (FFT) with IPC Technology". With O. Mohammadzadeh. To: 63rd Canadian Chemical Engineering Conference' Symposium: Oil and Gas, Session on Heavy Oil Recovery and Upgrading. October 20-23, 2013, Fredericton, New Brunswick.
- (437) "Preliminary Investigation into the Application of IPC Technology for Oil Recovery Using Chemical-Assisted Waterflooding Process." With: O. Mohammadzadeh. To: World Heavy Oil Congress 2014, March 5-7, 2014, New Orleans. LA, USA.
- (438) "The Aryl hydrocarbon Receptor Pathway of sturgeon: Evolutionary and ecotoxicological Implications to dioxin Sensitivity in fishes" With: J. Doering, S. Wiseman, S. Beitel, and M. Hecker. To: 40th Annual Aquatic Toxicity Workshop. Annual Meeting, Monkton, New Brunswick, Canada October 6-9, 2013.
- (439) "Chemodynamic behavior of Thallium in the Slave River, Northwest Territories, Canada With: P. Jones, Brett Tandler, Allison Hill, Ehimai Ohiozebau and Erin Kelly. 40th Annual Aquatic Toxicity Workshop Annual Meeting, Monkton, New Brunswick, Canada October 6-9, 2013.
- (440) "Expression of Metallothionein in White Sturgeon (*Acipenser transmontanus*) Following in vitro and Chronic Exposure to Cadmium or Copper. With: J. Doering, S. Wiseman, S. Beitel, D. Vardy, B. Eisner, S. Reid, and M. Hecker. To: 40th Annual Aquatic Toxicity Workshop Annual Meeting, Monkton, New Brunswick, Canada October 6-9, 2013.
- (441) "Effects of Exposure to a Model Dioxin-like Compound on the Transcriptome of White Sturgeon (*Acipenser transmontanus*). With: J. Doering, S. Wiseman, S. Beitel, S. Patterson, and M. Hecker. To: 40th Annual Aquatic Toxicity Workshop Annual Meeting, Monkton, New Brunswick, Canada, October 6-9, 2013.
- (442) "Ecotoxicological evaluation of sediments contaminated by waste coal by in vivo and in vitro bioassays". With: Mazurová, E., Bláha, L., Hilscherová, K., Ďuriš, Z., Horká, R., Triebkorn, To: 3rd conference on Environmental Changes and Biological Assessment, April 26-28, 2006 in Ostrava, Czech Republic (in Czech: Zmeny zivotniho prostredi a jejich indikace III). Published in Scripta Facultatis Rerum Naturalium Universitatis Ostraviensis, 163:274-278. ISBN 80-7368-201-X.
- (443) "Effect Directed Analysis: A novel approach for the assessment of complex mixtures of contaminants". With: P.D. Jones, M. Hecker, H. Yuan and E. Higley. To: Aquatic Toxicity Workshop. Ottawa, Ontario, Canada, September 28-October 1, 2014.

- (444) “Bioassay-directed characterization of endocrine disrupting potencies of municipal effluents in Canada.” With: P.D. Jones, M. Hecker, N. Hogan, A. Hontela, S. Wiseman, L. Bragg, H. Dhiyed, M. Servos, C. Gauthier, K. Steeves, S. Hanson and T. Bagatim To: Aquatic Toxicity Workshop. Ottawa, Ontario, Canada, September 28-October 1, 2014.
- (445) “Assessing biological effects of municipal wastewater effluent using the fathead minnow reproductive bioassay”. With: P.D. Jones, M. Hecker, N. Hogan, A. Hontela, S. Wiseman, K. Steeves, S. Hanson and T. Bagatim. To: Aquatic Toxicity Workshop. Ottawa, Ontario, Canada, September 28-October 1, 2014.
- (446) “Assessing potential endocrine disrupting effects of municipal effluents on fathead minnow (*Pimephales promelas*) populations in Southern Saskatchewan”. With: With: P.D. Jones, M. Hecker, N. Hogan, A. Hontela, S. Wiseman, K. Steeves, S. Hanson and T. Bagatim. To: Aquatic Toxicity Workshop. Ottawa, Ontario, Canada, September 28-October 1, 2014.
- (447) “Three Novel Brominated Flame Retardants Affect Fecundity and Transcript Profiles of the HPGL in Japanese Medaka”. With: D.M.V. Saunders, S. Wiseman. To 14th Annual Workshop on Brominated & Other Flame Retardants (BFR). Indianapolis, IN, June 22-24, 2014.
- (448) “Distribution and Trends of Polybrominated Diphenyl Ethers and Dechloranes in Lake Superior Sediment.” With: Z. Li, J. Guo, A. Li, K. Rockne and N. Sturchio. To 14th Annual Workshop on Brominated & Other Flame Retardants (BFR). Indianapolis, IN, June 22-24, 2014.
- (449) “Spatial Distribution of Halogenated Flame Retardants in the Surface Sediments of Lake Huron”. With: P. Ranasinghe, J. Guo, Z. Li, A. Li, K. Rockne and N. Sturchio. To 14th Annual Workshop on Brominated & Other Flame Retardants (BFR). Indianapolis, IN, June 22-24, 2014.
- (450) “Spatial Distribution and Time Trend of Persistent and Bioaccumulative Organics in the Sediments of Lake Michigan”. With: Jiehing Guo, M. Corcoran, A. Li, K. Rockne and N. Sturchio. To 14th Annual Workshop on Brominated & Other Flame Retardants (BFR). Indianapolis, IN, June 22-24, 2014.
- (451) “Report from the Great Lakes Sediment Surveillance Program –Halogenated Organic Chemicals in Upper Great Lakes”. Guo, J.-H. Z. Li, P. Ranasinghe, M.B. Corcoran, A. Li, K.J. Rockne, N.C. Sturchio, and J.P. Giesy. To: Brominated Flame Retardant Workshop. Indianapolis, IN. June 22-24, 2014.
- (452) “OH-PBDE and MeO-PBDEs: Emerging Contaminants of Concern or Natural Products, who cares?” To: Mini Symposium “New Environmental Pollution and Risk Assessment”, Japan Society of Toxicology, Annual Meeting, Kobe, Japan, July 1-5, 2014. ***Invited Penary Keynote***

- (453) “Synergistic Effects of Selected Auxin Herbicides on the Aryl Hydrocarbon Receptor (AhR)”. With: S Prinsloo, R Pieters, J van den Berg, T Bohn. To: 5th International Toxicology Symposium 2014 in Africa, Johannesburg, south Africa, August 29th, 2014.
- (454) “Exposure of honey bees (*Apis mellifera* L.) to Organophosphorous insecticides in Saskatchewan, Canada. With: Y. Al Naggar, A. Vogt, G. Codling, E. Naiem, M. Mona, Amal Seif, A. Robertson. The Acadian Entomological Society "Keeping Entomology on Track", 73rd Annual Meeting, Truro, NS, Canada, July 30 - August 1, 2014.
- (455) “Perfluorinated Chemicals: The History of an Environmental Issue”. 2nd Sapporo Summer Seminar for One health, Graduate School for Veterinary Medicine, Hokaido University, Sapporo, Hokkaido, Japan, September 24, 2014. ***Invited Penary Keynote***
- (456) “Status and Trends of Contaminants in the Yellow Sea. With J.-S. Khim, T., Wang, Y.-L. Lu, W. Luo, J. Park and S.-J. Hong. To: An International Perspective”. To: Asian Marine Biology Symposium, Jiju, Korea, October 1-2. ***Invited Penary Keynote***
- (457) “The Great Lakes Sediment Surveillance Program”. With: S. Bonina, G. Codling, M. Corcoran, J.-H. Guo, S. Hosseini, Z. Li, C. Smalley, A. Vogt, K. Rockne, A. Li, and, N. Sturchio. To: Asian Marine Biology Symposium, Jiju, Korea, October 1-2.
- (458) “Relationship Between Semi-volatile Persistent Bio-accumulate Toxic Chemicals (SV-PBTs) and Carbonaceous Materials in Lake Superior”. With: S. Hosseini, K. Rockne, A. Li, Z. Li, J. Guo, N. C. Sturchio and C. Smalley. To: 8th International Conference on Remediation and Management of Contaminated Sediments. New Orleans, LA. January 12-15, 2015.
- (459) “The Great Lakes Sediment Surveillance Program”. With: S. Bonina, G. Codling, M. Corcoran, J.-H. Guo, S. Hosseini, Z. Li, C. Smalley, A. Vogt, K. Rockne, A. Li, J.P. Giesy and N. Sturchio. 8th International Conference on Remediation and Management of Contaminated Sediments. New Orleans, LA. January 12-15, 2015.
- (460) “Sunlight Irradiation of Highly Brominated Flame retardants (SAYTEX-120 AND BDE-209) Leads to Degradation By-products and in vitro Effects on Chicken Embryonic Hepatocytes”. With: R.J. Letcher, G. Su, D. Crump, R. Farmahin and S.W. Kennedy. To: BFR 2015 Symposium, Beijing, China, April 21-24, 2015.
- (461) “Untargeted Screening of Brominated Compounds in Sediments Using a Data Independent Precursor Isolation and Characteristic Fragment (DIPIC-Frag) Method”. With: H. Peng, C.-L. Chen, D.M.V. Saunders, J.-X. Sun, S. Tang, G. Codling, M. Hecker, S. Wiseman, P.D. Jones, A. Li, N. C. Sturchio, and K.J. Rockne. To: Symposium on Emerging Contaminants, Pacificchem Honolulu, Hawaii, USA, December 15-20, 2015. *Invited*
- (462) “Applications of Environmental Forensics for Chemicals of Emerging Concern”. With: K.J. Rockne and G. Codling. To: Symposium on Emerging Contaminants, Pacificchem Honolulu, Hawaii, USA, December 15-20, 2015. *Invited*

- (463) "Distinguishing Between Persistent and Non-persistent Aryl Hydrocarbon Ligands in Sediments of South African Harbours." With: R. Pieters, N. Vogt, P. Holtzhausen and B. Newman. To: South African Society for Aquatic Scientists, Drakensberg Mountains, South Africa.
- (464) "Screening of Aryl Hydrocarbon Ligands in Sediment from Three Harbours in South Africa." With: N. Vogt, P. Holtzhausen and R. Pieters. To: Japanese Symposium on Environmental Chemistry (JSEC), Sapporo, Japan, June 24-26, 2015.
- (465) "A Simple Chemist in the Complexity of the Oil Sands". To: 2nd Annual Korea-China Symposium on Environmental Health and Ecotoxicology (KCSEHE), Seoul, Korea, June June 25-29.
- (466) "Understanding Polyhalogenated Carbazoles". With: A. Li, J.-H. Guo, S.-S. Zhou, D. Chen, Y. Wu, M.-L. Fang, W. Dong, K.J. Rockne and N. C. Sturchio. To: 1st International Conference on Environmental Pollution and Health, Guangzhou, China, June 2-4, 2015.
- (467) "Accumulation of atrazine and related compounds in the sediment of Lake Michigan". With: J.-H. Guo, S. Bonina, M. Corcoran, R. Kaliappan, Y. Wu, D. Chen, A.L. Sandy, K.J. Rockne, N.C. Sturchio and A. Li. To: 1st International Conference on Environmental Pollution and Health, Guangzhou, China, June 2-4, 2015.
- (468) "Retinoic acids produced by marine algae can trigger change of sex of the marine gastropod *Reishia clavigera*". With: G.J. Zhou, K.K.Y. Ho, J.C.H. Ip, Z. Wang, X.R. Xu, J.Y. Hu and KMY Leung. To: International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems 2015 (BECOME 2015). Hong Kong, SAR, PR China, June 1-4.
- (469) "Sunlight Irradiation of Highly Brominated Polyphenyl Ether Flame Retardants as Solids and in Solution Generated Products That Induce AhR-Related mRNA in Chicken Embryonic Hepatocytes." With: G Su, R.J. Letcher, D. Crump and S.W. Kennedy. To: Dioxin 2015 symposium São Paulo, Brazil, August 23- 28, 2015.
- (470) "A non-targeted chemical analysis strategy for identification of dissolved organic chemicals that cause acute toxicity of oil sands process-affected water". With H. Peng, H. Al Harbia, J.-S. Sun, S. Wiseman, and P.D. Jones. To: EnviroAnalysis. Banff, Alberta, July 13-15, 2015.
- (471) "Prediction of the Sensitivity of Avian Species to the Embryotoxic Effects of Dioxin-Like Compounds (DLCs)." With: R. Farmahin, D. Crump¹, M.E. Hahn, S.I. Karchner, J.P. Giesy, L. Mundy, S.P. Jones, G. Manning, S. Bursian, M. Zwiernik, and S.W. Kennedy. To: University of Alberta (CREATE Symposium of Analytical and Environmental Toxicology) July 27, 2015.
- (472) "Screening of aryl hydrocarbon ligands in sediment from three harbours in South Africa" With: N. Vogt, P. Holtzhausen, R. Pieters and B. Newman. To: 24th Symposium on Environmental Chemistry, June 24-26, 2015, Sapporo, Japan

- (473) “Investigating possible risks of crop applied herbicide mixtures using in vitro assays”. With: S. Horn, R. Pieters, T. Böhn. To: 7th SETAC Africa Conference, Oct. 5-8, 2015, Langebaan South Africa.
- (474) “Effects of Treatments with Apivar[®] and Thymovar[®] on V. destructor populations, Virus Infections and Indoor Winter Survival of Canadian Honey Bee Colonies (*Apis mellifera* L.)” With: Y. Al Naggar, Y. Tan, C. Rutherford, W. Connor, P. Griebel, J.P. Giesy and A.J. Robertson. To: Canadian Association of Professional Apiculturists Annual Meeting, December 1, 2015 Saskatoon, Saskatchewan, Canada.
- (475) “Untargeted Screening of Brominated Compounds in Sediments Using a Data Independent Precursor Isolation and Characteristic Fragment (DIPIC-Frag) Method”. With: H. Peng, D. Saunders, S. Tang, G. Codling, M. Hecker, S. Wiseman, P. Jones, A. Li, N. Sturchio and K. Rockne. To: Symposium on Chemicals of Emerging Concern: A Global Perspective at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. ***Invited***
- (476) “Nontargeted Screening and Mapping the Distribution of Organo-brominated Compounds in sediments of Lake Michigan”. With: H. Peng, C-L. Chen, J.-X. Sun, D. Saunders, G. Codling, M. Hecker, S. Wiseman and P.D. Jones. To: Symposium on Chemicals of Emerging Concern: A Global Perspective at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. ***Invited***
- (477) “Applications of Environmental Forensics for Chemicals of Emerging Concern”. With: K. Rockne and G. Codling. To: Symposium on Chemicals of Emerging Concern: A Global Perspective at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. ***Invited***
- (478) “Detection, Identification, and Quantification of Novel Brominated Flame Retardants in Environmental Matrices”. With: D. Saunders, H. Peng, J.-X. Sun, P.D. Jones and S. Wiseman. To: Symposium on Chemicals of Emerging Concern: A Global Perspective at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. ***Invited***
- (479) “Do Differences in Key Amino Acids in the Aaryl Hydrocarbon Receptor Explain Differences in Sensitivity of Fishes to Dioxin-like Compounds?” With: J. Doering, S. Wiseman, R. Farmahin, S. Beitel, S. Kennedy and M. Hecker. . To: Symposium on Environment Gene Interactions at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. ***Invited***
- (480) “Characterization of Adverse Outcome Pathways of Ethynylestradiol in *Xenopus laevis*”. With: M. Hecker, A. Tompsett, S. Wiseman and E. Higley. To: Symposium on Environment Gene Interactions on the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. ***Invited***
- (481) “Altered Reproductive Capacity of Japanese medaka Exposed to Maternally Transferred TBCO.” With: D. Saunders, J.-X. Sun, H. Peng and S. Wiseman. To: Symposium on

Environment Gene Interactions at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. **Invited**

- (482) “Effect-directed Assessment of AhR-active PAHs in Oil-contaminated Sediments by the Hebei Spirit Oil Spill, South Korea”. With: S.-G. Hong, S.-Y. Jeon, B.-O. Kwon, U. Yim, W.-J. Shim, and J.-S. Khim. To: Symposium on Status and Trends in Persistent Environmental Chemicals in the Environment to the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. **Invited**
- (483) “Persistent Toxic Substances in Estuarine and Coastal Areas of the Yellow Sea Regions: An International Perspective”. With: J.-S. Khim, S.-G. Hong, B.-O. Kwon, T. Wang and Y.-L. Lu. To: : Symposium on Status and Trends in Persistent Environmental Chemicals in the Environment at the International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA, December 15 - 20, 2015. **Invited**
- (484) “Identification and Quantification of Novel Contaminants in Food, Water, Human Tissues and Environmental Matrices”. To: Symposium on Environmental Health and Food Safety 2016. January 14, 2016. **Invited Plenary Keynote**
- (485) “China’s Role in the Canadian Oil Sands”. To: Public lecture sponsored by the Faculty of Science, University of Hong Kong, March 1, 2016. **Invited Plenary**
- (486) “Status and Trends of contaminants in the Yellow Sea: An International Perspective. To: 2nd Korea-China Symposium on Environmental Health and Ecotoxicology: The Yellow Sea Ecosystem, Pollution Ecosystem Threats and Environmental Health. **Invited Plenary Keynote**
- (487) “Reconnaissance of Dioxin-like Toxicities in Sediments of Taean Korea, Seven Years After the Hebei Spirit Oil Spill”. With C. Kim, I. Lww, D Jung, S.-J. Hong, J.-S. Khim, U. H. Yim, W.J Shin and K.-H. Choi. To: 2nd Korea-China Symposium on Environmental Health and Ecotoxicology: The Yellow Sea Ecosystem, Pollution Ecosystem Threats and Environmental Health.
- (488) “Trends of Endocrine Disruption Potentials of Coastal Sediments of Taean, Korea Between 2007 and 2012, following the Hebei Spirit Oil Spill-Combines in vitro approach using H295R and MVLN Assays.” With: X.-S. Liu, D.-W. Jung, S.-W. Lee, K.-W. Noh, J.-S. Khim, U.-H. Yim, W.-J. Shim and K.-H. Choi. To: 2nd Korea-China Symposium on Environmental Health and Ecotoxicology: The Yellow Sea Ecosystem, Pollution Ecosystem Threats and Environmental Health.
- (489) “Are Styrene Oligomers Potential Aryl Hydrocarbon-Receptor Agonists in Coastal Sediments of an Industrial Area”. With: S.-J. Hing, J.-H. Lee, C.-K. Lee, S.-J. Yoon, S.-Y. Jeon, B.-O. Kwon, J.-H. Lee and J.-S. Khim. To: 2nd Korea-China Symposium on Environmental Health and Ecotoxicology: The Yellow Sea Ecosystem, Pollution Ecosystem Threats and Environmental Health. Seoul, Korea, March

- (490) “Untargeted Screening for Chemicals of Emerging Concern: When is too Much data too much?” With: P.D Jones, H. Peng and B. Tendler. To: International Conference on Emerging Contaminants (EmCon 2016). September 20-23, 2016, Sydney, Australia.
- (491) “Paleogenomic Techniques: Using Next-generation Sequencing to Map Historical Trends within the Cyanobacteria Communities in Freshwater Lakes.” . With: T. Tse, T. Song, S. Wiseman, M. Hecker, L. Doig, and P.D. Jones. To: World water Day, University of Saskatchewan, March 23, 2016, Saskatoon, SK
- (492) “Simultaneous Isolation of Acidic, Basic and Neutral Compounds from Oil Sands Process Affected Water (OSPW) using Mixed Mode Solid Phase Extraction (SPE)”. With: H.A. Alharbi, A.S. Pereira, J.W. Martin and S.B. Wiseman. To: 51st Canadian Trace Organic Workshop, May 15-17, 2016. Saskatoon, Saskatchewan, Canada
- (493) “A Quantitative Analysis of the Internal Concentration of Organophosphate Pesticides in Whole Larvae Tissue of Japanese Medaka using LC-QqQ-MS without clean-up step”. With: H.A. Alharbi and S.B. Wiseman. To: 51st Canadian Trace Organic Workshop, May 15-17, 2016, Saskatoon, Saskatchewan, Canada
- (494) “Polyhalogenated Carbazoles in Sediment of the Great Lakes: Natural or Anthropogenic? With: J.-H. Guo, Z.-O. Li, P. Ranasinghe, S. Bonina,, S. Hosseini, M.B. Corcoran, C. Smalley, K.J. Rockne, N.C. Sturchio and A. Li. To:
- (495) “Water Quality Criteria in the 21st Century: The Challenge of Eco-genomics” With: X.-W. Zhang, X.-W. Jin, Y.-B. Li, E. G.-B. Xu, W. Liu, Y. Chen, H.-L. Liu, L.-Q. Xing, Z.-T. Liu and H.-X. Yu. To: The 2nd International Conference on Deriving Environmental Quality Standards for the Protection of Aquatic Ecosystems (EQSPAE-2) 18-20 June 2016, Hong Kong, SAR, China. ***Invited, Plenary Keynote.***
- (496) “Application of QSAR in Deriving Water Quality Criteria for Metals”. With: F.-C. Wu, Y.S. Mu, C. Chen, Y. Wang, Y. Qie and X.-L. Zhao. To: The 2nd International Conference on Deriving Environmental Quality Standards for the Protection of Aquatic Ecosystems (EQSPAE-2) 18-20 June 2016, Hong Kong, SAR, China. ***Invited, Plenary Keynote.***
- (497) “Status and Trends of Contaminants in the Yellow Sea: An International Perspective”. With: Y.L. Lu, T. Wang, W. Luo, S. Hong, J. Park and J.S. Khim. To: 8th Marine Pollution Conference, June 21-24, 2016, Hong Kong, SAR, China. ***Invited, Plenary Keynote.***
- (498) “Retinoic Acids Produced by Marine Cyanobacteria Trigger Sex Change in Female Gastropod, *Reishia clavigera*. With: G.-J. Zhou, K.K.Y. Ho, J.C.H. Ip, S. Liu, J.Y. Hu and K.M.Y. Leung. To: 8th Marine Pollution Conference, June 21-24, 2016, Hong Kong, SAR, China.
- (499) “Halogenated “Pollutants” Everywhere: An Overview of Findings from the Great Lakes Sediment Surveillance Program”. With: K.J. Rockne, H. Peng, J.-H. Guo, S. Hosseini, A. Li and N. Sturchio. To: 9th International Conference on Remediation and Management of Contaminated Sediments, January 9-12, 2017, New Orleans, LA, USA.

- (500) “Untargeted Screening of Brominated and Iodinated Disinfection By-Products”. With: T. Watts, H. Peng and P. Jones. To: Buffalo Pound Waer Treatment Workshop, March 1, 2017, Moosejaw, Saskatchewan.
- (501) “Toxin Monitoring: Temporal-spatial distribution”. With: H. Peng and P.D. Jones. To: Buffalo Pound Waer Treatment Workshop, March 1, 2017, Moosejaw, Saskatchewan.
- (502) “New Mass Spectrometry Techniques for the Measurement of Persistent Organic Pollutants.” With: P.D. Jones. To: Dioxin 2017, the 37th International Symposium on Halogenated Persistent Organic Pollutants, Vancouver, British Columbia, Canada, August 20-25, 2017.
- (503) “Characterizing toxicity of oil sands process-affected waters (OSPW)”. With: G. Morandi, S. Wiseman and J. Martin. To: Oil Sands Process Water (OSPW) Science Workshop COSIA, Calgary, Alberta, Canada, September 6, 2017. ***Invited, Plenary Keynote.***
- (504) “Known Unknowns in the Supercomplex World of Oil Sands Process Water”. With: With J.W. Martin, A. Periera, K. Zhang, S. Wiseman and G. Morandi. To: Water Conference Organized by COSIA & Alberta Innovates EES. BMO Centre, Stampede Park. Calgary, March 22, 2017. ***Invited Plenary Keynote.***
- (505) “Investigating Known Unknowns in the Supercomplex World of Oil Sands Process Water. With: With J.W. Martin, A. Periera, K. Zhang, S. Wiseman and G. Morandi. To:
- (506) “Environmental Forensics: What is it and What can it Do?” 1st Annual Science Meeting of the Global Water Futures Network, Hamilton, Ontario, Canada, June 6, 2018. ***Invited, Plenary Keynote.***
- (507) “Next Generation Aquatic Chemistry”. With P.D. Jones. To: Global Water Futures 2nd Annual Open Science Meeting, May 14–17, 2019, Saskatoon, SK. ***Invited***
- (508) “The H295R Steroidogenesis Assay to Evaluate Toxicant-Induced Effects on Sex Steroid Hormone Production”. With M. Hecker, G. Timm, A.-M. Vinggaard, C. Nelleman, Y. Akahori, R. Cooper, H. Hollert, S-Y. Han, M. B. Murphy and J. L. Newsted. To: Shell external Animal Welfare Panel Meeting, May 9, 2019, Shell Offices, The Hague, The Netherlands.
- (509) "Ecotoxicology: Assessing exposure to, hazards and risks of chemicals in water." To: Water Security: A Primer. A short course presented by the Global Institute for Water Security. September 12, 2019, Saskatoon, SK, Canada Invited.
- (510) “Next Generation solutions to ensure healthy water resources for future generations”. To: Global Water Futures Management Meeting. November 19, 2019, Hamilton, Ontario, Canada.
- (511) “*Omic* and chemical fingerprinting methodologies using ultrahigh-resolution mass spectrometry for geochemistry and healthy waters”. With P.D. Jones. To: Global Water Futures Management Meeting. November 19, 2019, Hamilton, Ontario, Canada.

- (512) "Novel and Sustainable Approach to Hydrological Tracing with Synthetic DNA". With: J. Peters, D.L. Rudolf, P. Marjan, M.R. Servos, P.M. Craig and B.A. Katzenback. To: Geoniagra, September 26-29, 2021.
- (513) "Headwater creek tracer test shows potential for synthetic DNA to be used as a reliable hydrological tracer". With: Peters, J., Marjan, P., Dhiyebi, H., Craig, P. M., Katzenback, B. A., Doxey, A., Rudolph, D. L., & Servos, M. R. (2021, May 17-19)." [Poster Presentation]. Global Water Futures (GWF) Annual Open Science Meeting. <https://gwf.usask.ca/events-meetings/upcoming-events/gwf2021asm.php>
- (514) "Shifting from environmental toxicology to SARS-CoV-2 wastewater surveillance." With: Yuwei Xie, Jonathan K. Challis, Femi Oloye, Yufeng Gong, Markus Brinkman, McPhedran, Kerry, Paul D. Jones, Mark Servos.)." [Platform Presentation]. Global Water Futures (GWF) Annual Open Science Meeting. <https://gwf.usask.ca/events-meetings/upcoming-events/gwf2021asm.php>
- (515) "Watersheds to sewersheds: next generation solutions for SARS-CoV-2 Surveillance. Global water futures". With: M. Servos. To: Science Meeting of Global Water Futures Program, May 17 2021. Platform presentation.
- (516) "Wastewater-based surveillance of SARS-CoV-2 in Saskatoon". With: Yuwei Xie, Jonathan Challis, Femi Oloye, Mohsen AsadiBagloee, Jenna Cantin, Markus Brinkman, Kerry McPhedran, Paul Jones and Mark Servos. To: Global water futures: Science meeting, May 17 2021. Platform presentation and poster online (<https://drive.google.com/file/d/1-wR4FQN3ITMu5UTB-leyzIwInpjbX0mE/view>).
- (517) "Responding to a global pandemic: SARS-CoV-2 wastewater surveillance in Ontario" With: Hadi Dhiyebi, Nivetha Srikanthan, Samina Hayat, Patrick Breadner, Sean McLay, Leslie Bragg, Kirsten Nickel, Erika Burton, Paul Craig, Wayne Parker, Meghan Fuzzen, and Mark R. Servos. To: Global water futures: Science meeting, May 17 2021. Platform presentation.
- (518) "Rapid detection of SARS-CoV-2 variants of concern in Ontario wastewater". With: Meghan Fuzzen, Tyson Graber, Hadi Dhiyebi, Nivetha Srikanthan, Kirsten Nickel, Rhiannon Hodgson, Samina Hayat, Erika Burton, Robert Delatolla and Mark Servos. To: Global water futures: Science meeting, May 17 2021. Platform presentation.
- (519) "Rapid Response to COVID-19: The role of a Prepared Mind and Flexible Administrators". With: Kerry McPhedran, Markus Brinkman, Yuwei Sie, Mohsen Asadi Bagloee and Femi Oloye. To: U of S at the Canada-India Healthcare Summit. Saskatoon, SK, Canada May 21, 2021.
- (520) "Monitoring for SARS-CoV-2 and variants of concern in Saskatchewan wastewater". With: Y.-Y. Xie, J.K. Challis, F. Oloyea, M.A. Bagloee, J. Cantin, M. Brinkman, K. McPhedran, M. Sadowski, P.D. Jones and M. Servos. To: Global Water Futures 4th Annual Open Science Meeting, May 16-19, 2021.
- (521) "Detection of invasive salmonids in remote Chilean rivers using environmental DNA methods". With: Burton, E., P. Marjan, G. Chiang, P. Bahamonde, P. Craig, A. Doxey, M.R.

Servos, B.A Katzenback. To: Global Water Futures 4th Annual Open Science Meeting, May 16-19, 2021.

- (522) “Headwater creek tracer test shows potential for synthetic DNA to be used as a reliable hydrological tracer”. With: Peters, J., P. Marjan, H. Dhiyebi, P.M. Craig, B.A. Katzenback, A.C. Doxey, D.L. Rudolph, M.R. Servos. To: Global Water Futures 4th Annual Open Science Meeting, May 16-19, 2021.
- (523) “Use of multiple eDNA methods targeting distinct genetic loci to improve congruence of eDNA and conventional survey methods for surveying local stream fish communities”. With: Harper, N., H. Ikert, M.D.J. Lynch, A.C. Doxey, M.R. Servos, J.M. Craig, B.A. Katzenback. To: Global Water Futures 4th Annual Open Science Meeting, May 16-19, 2021.
- (524) “Wastewater-based surveillance SARS-CoV-2 in support of Public Health action. A Year of Covid”. With: Servos, M., N. Srikanthan, H. Dhiyebi, M. Fuzzen, S. Hayat, L. Bragg, P. Breadner, S. McLay, K. Nikel, R. Hodgson, E. Burton, N. Harper, P. Craig, W. Parker, P. M. D’Aoust, T. Graber, R. Delatolla. To: Special session and panel discussion hosted by the VP Research, University of Waterloo, May 20, 2021. <https://uwaterloo.ca/research/research-excellence/year-covid-19>
- (525) “OSPW Toxicity Identification Evaluation”. To: COSIA Mine Water Reuse Workshop for Alberta Energy Regulator. Calgary, AB, Canada, June 9, 2021.

ADDITIONAL SESSION CHAIRS AND WORKSHOP LEADER: (125)

- (1) Symposium Chairman - "Microcosms in Ecological Research," November, 1978.
- (2) Section Coordinator - Review of "Quality Criteria for Water-EPA," for American Fisheries Society, 1978.
- (3) Session Chairman, "Energy and Environmental Stress in Aquatic Systems: Modeling Stresses and Heavy Metal Stresses," 1978.
- (4) Instructor, "Heavy Metals in the Environment," Oak Ridge Associated Universities, 1978, Oak Ridge, TN.
- (5) Session Chairman, "Environmental Chemistry and Cycling Processes: Elemental Cycling in Aquatic Ecosystem," 1976.
- (6) Session Chairman, "Thermal Ecology Symposium," Augusta, Georgia. April, 1975.
- (7) Session Chairman, "Toxic Substances and Fish Biochemistry." 47th Midwest Fish and Wildlife Conference, Grand Rapids, MI, December, 1985.
- (8) Chairman, "In-place Pollutants Workshop", USEPA, February, 1986, E. Lansing, MI.
- (9) Moderator, "Toxicology Research": A briefing for the House of Commons Select Committee on Agriculture. Parliament of Great Britain. April, 1986, E. Lansing, MI.
- (10) "Reducing uncertainty in risk assessment". May, 1987, East Lansing, MI. ***Invited Delegate.***
- (11) "Sediment Toxicity Assessment". Visit of delegation of Soviet Scientists from the All Union Scientific Research Institute for Protection of Waters, October, 1988. East Lansing, MI. Host and organizer.
- (12) "Strategies for Remedial Actions in Contaminated Aquatic Systems". Ecology 89, International Congress: From Problems to Strategies. With: R. A. Hoke. Gothenburg, Sweden, August, 1989. ***Invited Plenary Presentation.***
- (13) "Fates and Effects of In-Place Pollutants in Aquatic Systems". Verbania-Pallanza Novara, Italy. August, 1989. ***Co-Organizer.***
- (14) "International Symposium on Aquatic Ecosystem Health". Waterloo Ontario, Canada, July, 1990. Member of Organizing Committee.
- (15) "A Mechanistic Understanding of Bioavailability: Physical-chemical Interactions". Workshop, Sponsored by Society of Environmental Toxicology and Chemistry. August, 1992. Pelston, MI. Organizing Committee.

- (16) "A Workshop to Establish Research Priorities Strategies for Toxic Substances in the Great Lakes Ecosystem". Lansing, Michigan, 1990. Organizing Committee.
- (17) "Workshop on the Assessment and Remediation of Contaminated Sediments (ARCS)". U.S. EPA. February, 1990, Chicago, IL. ***Invited Delegate.***
- (18) "Dioxin-90, The International Conference on Organo-halogen Compounds".
- Session Chair-"Environmental Toxicology".
- Discussion Leader-
- 1) "Environmental Toxicology"
 - 2) "Environmental Processes"
- (19) "Conference on Cause-effect Linkages for Contaminants and Effects in the Great Lakes". September 29-October 2, 1991, Traverse City, MI.
- 1) Panel discussion - what species should be monitored and what methods should be used by Great Lakes wildlife researchers to observe and quantify trends in Great Lakes toxicity. ***Invited.***
 - 2) Panel discussion on cause-effect linkage. ***Invited.***
- (20) "Assessment of Human Exposure to Chemicals from Superfund Sites". June 4-6, E. Lansing, MI.
- (21) "International Symposium on Aquatic Ecosystem Health". July 23-26, 1990. Waterloo, Ont. Canada. ***Co-organizer.***
- (22) "Symposium on Contaminated Aquatic Sediments: Historical Records, Environmental Impact and Remediation". June 14-16, 1993. Milwaukee, WI.
- 1) Scientific Organizing Committee.
- (23) "Inaugural Research Planning and Priority Setting Workshop". Canadian Network of Toxicology Centres, Mississauga, Ontario, Canada. March 15-17, 1992. ***Invited Delegate.***
- (24) "European workshop on Freshwater Field Testing (EWOFT)". Potsdam, Germany, June 25-26. ***Invited Delegate.***
- (25) "Bioavailability of Organic and Inorganic compounds to Aquatic Organisms". Pelston Conference, August 18-22, Pelston, MI. ***Invited Delegate Member of Steering Committee.***
- (26) "Workshop on the Methodology for Deriving National Ambient Water Quality for the Protection of Human Health". US EPA. Office of Science and Technology Health and Ecological Criteria Division Human Risk Assessment Branch. September 13-16, 1992, Washington, D.C.

- (27) "Tiered Testing Issues for Freshwater and Marine Sediments". US EPA Office of Water and Office of Research and Development. September 16-18, 1992, Washington, D.C. ***Invited Delegate.***
- (28) National Workshop on the Characterization of Risks to Humans and the Environment". June 21-23, 1993, Ottawa Canada.
- Session Chair: "PCBs in the Aquatic Environment, Sources and Effects
- (29) "Ecotoxicology Conference: Multiple Stresses in Ecosystems". Davis, CA October 14-15, 1993. ***Featured, Invited Speaker.***
- Panel Discussion: Assessing Impacts of Multiple Stressors in Ecosystems.
- (30) "DIOXIN '93, 13th International Symposium on Chlorinated Dioxins and Related Compounds", Vienna Austria, September 21-24, 1993.
- Session Chair: "PCBs in the Environment"
- (31) "Reproduction Disturbances in Fish". Swedish Agricultural University, Faculty of Veterinary Medicine. Uppsala, Sweden, October 20-23, 1993. ***Invited Delegate.***
- (32) "SETAC-Europe Workshop on Sediment Toxicity Assessment". Renesse, The Netherlands, November 7-10, 1993. ***Invited Delegate***
- Working group on Interpretation of toxicity tests
- (33) "Environmental Risk Assessment for Organochlorine Compounds". Society of Environmental Toxicology and Chemistry. ***Invited Delegate***
- Steering Committee
- (34) "Wildlife Toxicology Research Issues", Chemical Industry Institute of Toxicology, June 19, 1994, Research Triangle Park, NC
- (35) "Chlorinated Compounds in the Environment: Wildlife Toxicological Issues", Chemical Manufacturer's Association, Chlorine Chemistry Committee Forum, May 2-4, June, 1994, Washington, D.C.
- (36) "Risk Assessment Forum's Workshop to Peer Review the Ecological Risk Assessment by US EPA. August 16-18, 1994, Washington, D.C. ***Invited Delegate***
- Reviewer: Risk Mitigation Methods
- (37) "Concentrations of Dioxins and Dioxin-Like Compounds in Birds of the Great Lakes Region and Their Effects". National Conference on Dioxin Risk Assessment: Science and Policy Issues. 5th Annual Rifkin Conference, October, 20-21, 1994, Washington, D.C. ***Invited Delegate***

- (38) Dioxin 94, Session Chair: "Ecotoxicology". Kyoto Japan, November, 1994.
 - (39) Symposium on Environmental Exposures that Affect the Endocrine System. Wingspread, Racine, Wisconsin, January 13-14, 1995. *Invited Delegate*.
 - (40) International Experts Meeting on Persistent Organic Pollutants: Towards Global Action. Vancouver, British Columbia, Canada, June 4-8, 1995. *Invited Delegate*
 - (41) National Workshop on Ecological Effects of Endocrine Disruptors, US Environmental Protection Agency, Duluth, Minnesota, June 12-14, 1995. *Invited Delegate*
 - (42) Canadian Network of Toxicology Centers, Annual Research Symposium, Toronto, Ontario, Canada, May 2-3, 1995. *Invited Delegate*
 - (43) "Workshop on Toxicity Equivalency Factors for Ecological Risk Assessments". World Health Organization. August 9-10, 1996, Bilthoven, The Netherlands. *WHO Advisor*.
 - (44) "Biotransformation in Ecological Risk Assessment". SETAC-Europe workshop, April 28-May 1, 1996, Noordwijerhout, The Netherlands. *Invited Delegate, Keynote Speaker*.
 - (45) Dioxin 96. Co-chair Ecotoxicology Section, August 12-17, 1996, Amsterdam, The Netherlands.
 - (46) Dioxin 96. *Invited panelist* for summary session at the end of the meeting. Current trends in effects of chlorinated compounds on wildlife. August 12-17, 1996, Amsterdam, The Netherlands.
 - (47) "A Scientific Panel Discussion on Endocrine Disruptors in the Environment", March 16-19, 1996, Kiawah Island, SC. *Invited Delegate*
- Session chair-Weight of evidence
Case study panelist
- (48) "Workshop on Endocrine Screening Testing Methodology" US EPA-CMA, Duke University School of the Environment, Durham, NC, July 15-16, 1996. *Invited Delegate*
 - (49) APCBs, the New Equilibrium, A workshop of the Great Lakes Science Advisory Board's Workgroup on Parties Implementation". September 10, 1996, Windsor, ON. *Invited Moderator*
 - (50) Dioxin 97, 17th Symposium on Chlorinated Dioxins and related Compounds, August 24-29 1997, Indianapolis, IN.

Member of National Scientific Organizing Committee

- (51) "Biomarkers of Marine and Freshwater Pollution". November 10-12, 1997, Goa

Member International Organizing Committee

- (52) SETAC Technical Information Paper (TIPs) on Endocrine Disruptors.

Member Oversight Committee and Technical Editor

- (53) ASETAC-Europe/OECD Expert Workshop on Endocrine Modulators and Wildlife-Assessment and Testing (EMWAT)". April 10-13, 1997, Amsterdam, The Netherlands. ***Invited Delegate***
- (54) "Endocrine Disruptor Workshop", Smithsonian Institution, United Nations Environment Program, White House Office of Science and Technology Policy and US Environmental Protection Agency, January 23-24, 1997, Washington, D.C. ***Invited Delegate***
- (55) "Reproductive and Developmental Effects of Contaminants in Oviparous Vertebrates: Mechanisms, Ecological Consequences, and Assessment of Risk". SETAC Pelston Workshop, July 12-17, 1997, Gregson, Montana. ***Invited Delegate***
- (56) "Derivation of Toxic Equivalency Equivalency Factors (TEFs) for Dioxin-Like Compounds for Human and Wildlife". World Health Organization, June 15-17, 1997, Stockholm, Sweden. ***Invited Delegate***
- (57) "Effects of Endocrine Disruptors in Wild Mammals-Mink Case History" To: Duke Workshop on Screening Methods for Detecting Potential Endocrine Disrupting Chemicals in Wildlife. March 18, 1997, Kansas City, MO. ***Invited Delegate***
- (58) Blue Ribbon Panel to Investigate the Potential Endocrine Disrupting Properties of the Herbicide Atrazine. August 14-15, 1977, Dearborn. MI, ***Invited Delegate***
- (59) SETAC-Europe/OECD/EC Expert Workshop on Endocrine Modulators and Wildlife: Assessing and Testing (EMWAT) Veldhoven, The Netherlands, April 10-13, 1997. ***Invited Delegate***
- (60) Expert Panel for Developing a Comprehensive Monitoring Program for the Watersheds Which Serve as the Source of Drinking Water for New York City. September 16-17, 1997, ***Invited Panelist***
- (61) Workshop on Using Sentinel Species Data to Assess the Potential Human Health Effects of Chemicals in the Environment, US Army Center for Environmental Health Research, US EPA, National Center for Environmental Assessment and the Agency for Toxic Substances and Disease Registry, September 23-24, 1997, Frederick, Maryland. ***Invited Delegate***
- (62) "Perspectives on Environmental Endocrine Disruption", University of Memphis Issues of the Environment Symposium Series, September 19, 1997, Memphis Tennessee.

- (63) “Conference on Current Issues on Chemical Mixtures”. Colorado State University and National Institutes of Health Sciences, August 11-13, 1997, Fort Collins, Colorado. ***Invited Delegate***
- (64) “Workshop on Fox River Sediment Remediation”. Science and Technical Advisory Committee of the Fox River Group. University of Wisconsin-Green Bay, October 35, 1997, Green Bay, Wisconsin. ***Invited Delegate***.
- (65) “Hazardous Substances and Male Reproduction”. Department of Community Medicine, Mount Saini School of Medicine, National Institute of Environmental Health Sciences, Superfund Basic Research Program and National Institute of Occupational Safety and Health, May 14-15, 1998, New York, New York. ***Invited Delegate***.

Chair: workgroup on Exposure Assessment/Biomarkers of Exposure”.

- (66) “Global Assessment of the State-of-the-Science of Endocrine Disruptors. United Nations Environment WHO Program and International Programme on Chemical Safety”. December 9-11, 1998, Washington, D.C. ***Invited Delegate***
- (67) Workshop of Expert Panel on Joint EU/US Endocrine Disruptor Research Directions, European Commission, Directorate General-12, , April 19-21, 1999, Ispra, Italy. ***Invited Delegate***.

Rapporteur, subgroup on Ecotoxicology

- (68) “Chemical Stress in Aquatic Systems, International Union of Pure and Applied Chemistry, 37th Congress, August 14-19, 1999, Berlin, Germany. ***Invited Delegate***

Session Chairperson, Microsymposium Chemical Stress in Aquatic Systems.”

- (69) 3rd International Water Association (IWA) Specialized Conference on Hazard Assessment and Control of Environmental Contaminants (ECOHAZARD >99). December 5-8, 1999, Otsu, Japan.

Session Chairperson, Endocrine Disruptors in the Environment”.

- (70) “Effects of Estrogenic Substances on Laboratory and Caged Fishes”. With: J.D. Jones, S.A. Villalobos, K.M. Nichols, E.M. Snyder, S.L. Pierens, S.R. Miles-Richardson and D.L. Villeneuve. To: 4th Princess Chulabhorn International Sciences Congress. Bangkok, Thailand. November 28-December 2, 1999. ***Invited, Plenary***.
- (71) “Arctic Development, Pollution and Biomarkers of Human Health”. National Institute of Environmental Health Sciences, Anchorage Alaska, May 1-3, 1999. ***Invited Delegate***.
- (72) “Risk Communication and Food Safety: Motivating and Building Trust”. East Lansing, MI, July 10-12, 1999. ***Invited Delegate***.

- (73) “Costal and Estuarine Risk Assessment Symposium”. College of William and Mary, Williamsburg, VA, July 20-21, 1999. *Invited Delegate*.
- (74) “Support of Science-Based Decisions Concerning the Evaluation of Toxicity of Mixtures”. September, 21-22, 2000, Washington, D.C. *Invited Delegate*
- (75) “Cause of Reproductive Failure in North American Atlantic Right Whales: New Avenues of Research”. April 26-28, 2000, Falmouth, MS. *Invited Delegate*
- (76) Shiga-Michigan Joint Symposium, July 19-20, 2001, Hikone, Japan. *Invited Delegate*.

Session chair: Environmental Contaminants and Their Toxicological Problems

- (77) Dioxin 2001, September 9-14, 2001, Gyeongju, Korea. *Invited Delegate*

Session chair: Ecotoxicology

- (78) Scientific Committee on Problems in the Environment (SCOPE)/ International Union of Pure and Applied Chemists (IUPAC). International Symposium on Endocrine Active Substances, November 17-21, 2001, Yokohama, Japan. *Invited Delegate*
- (79) “Symposium on Risk Assessment of Agrochemicals”. Agrochemicals Division of the American Chemistry Society. April 7-11, 2002, Annual meeting Orlando, FL. *Symposium organizer*.
- (80) “Workshop on Endocrine Disruptors”. International Water Association (IWA), Annual meeting, April 6-12, 2002, Melbourne, Australia.
- (81) “Review of Validation Status of in vitro Estrogen and Androgen Receptor Binding and Transcriptional Activation Assays”. Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM), May 20-23, 2002, Research Triangle Park, NC.
- (82) US-Vietnam Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxins. Working group on Environmental Effects, March 7, 2002, Hanoi, Vietnam. *Invited Delegate, Working Group Chair*.
- (83) Expert panel “Biological Activity of Remediation Products. Bioremediation and Biodegradation: Current Advances in Reducing Toxicity, Exposure and Environmental Consequences”, June 9-12, 2002, Pacific Grove, CA.
- (84) “Environmental Science Programs”. Industrial Partners Meeting, Michigan State University, April, 11, 2002.
- (85) Independent Expert Panel for the Evaluation of in vitro estrogen and androgen assays. Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM). May 20-23, 2002, Research Triangle Park, NC. *Invited Delegate*.

- (86) Session Chair Ecotoxicology, 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 11-16, 2002, Barcelona, Spain.
- (87) “Natural Attenuation of Metals Along The Tisza River-Floodplain-Wetlands Continuum”: A Workshop Sponsored by OTKA-MTA and NSF, September 15-19, 2002, Budapest, Hungary. *Invited Delegate.*
- (88) “Approaches to the Analysis of PFOA and It’s Salts in Environmental Matrices-Problems and Pitfalls”, May 1-2, 2003, Hamburg, Germany. *Invited Delegate.*
 - (1) Session Chair: “Specific Media and Method Experiences”
- (89) “Project Fishnet: International Expert Hearing”. A workshop to review and make suggestions on programs and projects to determine population trends of fish in Swiss rivers and possible causes for any observed declines, August 21-22, 2003, Kastanienbaum, Switzerland. *Invited Delegate.*
- (90) Session Chair “Perfluorinated Compounds: Environmental Fate and Effects, 23rd International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), August 24-29, 2003, Boston, Massachusetts, USA.
- (91) “Dioxin Screening, Remediation Methodologies and Site Characterization”. U.S.-Vietnam Scientific Workshop, sponsored by the US EPA, NIEHS and Vietnamese Institute of Biotechnology (NCST), November 3-5, 2003, Hanoi, Vietnam. *Invited Delegate.*
 - (1) International organizing committee
 - (2) Session Chair “Bioanalytical and Analytical Methods”
- (92) “Workshop on Bioindicators for Environmental Management”, City University of Hong Kong, December 1-3, 2003, Hong Kong. *Invited Delegate.*
 - (1) International Organizing Committee
 - (2) Lecturer in biomarker techniques.
- (93) “Workshop on Bioindicators and Biomarkers”, Organized by Scientific and Technical Advisory Panel (STAP) of the Global Environment Facility (GEF), United Nations Environment Program (UNEP). This meeting was held to discuss methods to assist developing countries for monitoring the environment to meet their obligations under the Stockholm Protocols on Persistent Organic Pollutants. December 10-12, 2003, Tsukuba, Japan. *Invited Delegate*
 - (1) Session chair and rapporteur “Bioindicators for monitoring POPs in developing countries”

- (94) Workshop on Sustainable Development: “Concern to Understanding, Understanding to Action”. April 1, 2004, Michigan State University, East Lansing, Michigan. ***Invited Delegate***
- (95) “Ecological Risk Assessments for Perfluorinated Fatty Acids in the Marine Environment”. With: P.D. Jones, J.L. Newsted, M.K. So, S. Taniyasu, N. Yamashita, P.K.S. Lam and R.S.S. Wu. To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, Hong Kong, SAR, China
- (1) Session chair
- (96) “Strengthening Science-Based Decision Making to Reduce Risks from Persistent Organic Pollutants.” A workshop hosted by the State Environmental Protection Administration of China, US National Academy of Science, Chinese Academy of Science and Special Committee of Pollution of the Environment (SCOPE)-China. June 7-10, 2004, Beijing, China. Meeting Co-chair
- (97) "Fluoros" An international symposium on fluorinated alkyl organics, August 19 and 20th, 2005, Toronto Ontario, Canada.
- (1) Advisory Board"
- (98) 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 21-26, 2005, Toronto, Ontario, Canada.
- (1) Session chair: Perfluorinated compounds.
- (98) “Advances and Trends in Ecotoxicology:. World SECOTOX Conference, September 4-5, 2005, Brno, Czech Republic.
- (1) Scientific Organizing Committee
- (2) Session Chair: *Environmental Analytical and Bioanalytical Methods*
- (3) Session Chair *Fate and Transport of Environmental Pollutants*
- (99) International Water Association
- (1) Scientific Committee for IWA World Water Congress & Exhibition, September 2006, Beijing, PRC
- (100) Delegate to Annual Symposium, Centre for Marine Pollution and Environmental Research and Innovative Technology, City University of Hong Kong, Kowloon, Hong Kong, China, November 30-December 1, 2005.
- (101) “3rd International Conference on Environmental Enhancement and Sustainable Development. August 4-8, 2006, Hohhot, Inner Mongolia, China.

- (1) Academic Committee (Scientific Organizing Committee).
 - (2) Academic Committee
 - (3) Chair of the workshop summary session
- (102) 16th Annual meeting, May 7-11, 2006, The Hague, The Netherlands.
- (1) Session Chairperson, Reproductive and Developmental Toxicology, Often a Matter of Critical Windows
- (103) 26th International Symposium on Halogenated Persistent Organic Pollutants, Oslo, Norway, August 21-25, 2006.
- (1) Session Chair, Perfluorinated Substances: Sources, Environmental Levels and transformation.
- (103) 5th International Symposium on Persistent Toxic Substances. September 21-24, 2006, Beijing China.
- (1) International Academic Steering Committee
- (104) Eugene Kenaga International DDT Conference on Environment and Health. March 4, 2008, Alma College, Alma, Mich. *Invited Delegate*.
- (105) 35th Annual Aquatic Toxicity Workshop, Saskatoon, SK, October 5-8, 2008.
Organizing Committee
Sponsorship Chairperson
Keynote Speakers Chairperson
- (106) Superfund Contaminants: The Next generation, Tucson Arizona, August 12-14, 2009.
Invited delegate
- (107) 30th annual meeting Society of Environmental Toxicology and Chemistry, November 19-23, 2009, New Orleans, LA.
- (108) Session Chair "Tittabawassee River Risk Assessment"
- (109) Water Policy: Wave of the Future. Canada West Foundation, James A. Richardson Discovery Roundtables, Saskatoon, Saskatchewan, March 3, 2011. Invited Delegate
- (110) Society of Environmental Toxicology and Chemistry, Pharmaceutical Advisory Group. "Technical Workshop on Pharmaceuticals and Personal Care Products in the Environment" Niagara on the Lake, Ontario, Canada, March 3, 2011. Invited Delegate
- (111) 15th International Symposium on Toxicity Assessment (ISTA), July 3-8, 2011, Hong Kong, China.
-Session Chair: "Risk Assessment"
-Invited, Plenary, Keynote Speaker "Bottom-up and Top-Down: Do the Risk Assessments Meet in the Middle?"

- (112) Environmental Development Forum, June, 2012, Xixing, China
-International Advisory Committee
- (113) Workshop on Analytical Strategies for naphthenic Acids, National Hydrology Research Centre, Environment Canada, Saskatoon, SK, Canada, November 24-25, 2011. ***Invited Delegate***
- (114) Academic Exchange on Ecosystem Safety and Monitoring in Taihu Lake, China. Nanjing, China, June 30, 2012. ***Invited Delegate***
- (115) “Workshop on Establishing Environmental Quality Criteria for China”, Chinese Research Academy for Environmental Sciences (CRAES), Beijing, China, July 6, 2012. ***Invited Delegate***
- (116) “2nd International Environmental Forum of the Scientific Committee on Pollution of the Environment (SCOPE)”, Taiyuan, Shanxi Province, China, October 8-15, 2012.
(1) International Scientific Committee
(2) Session Chair
- (117) “7rd Annual Symposium of the Area of Excellent Program in Marine Pollution” January 10-11, Hong Kong. ***Invited Delegate***
- (118) “3rd Annual Symposium of the State Key Laboratory in Marine Pollution”. January 10-11, Hong Kong.
(1) Member of External Advisory Committee
(2) Session Chair
- (119) 7th International Conference on Marine Pollution and Ecotoxicology, June 17-21, 2013, Hong Kong.
(1) Session Chair
- (120) American Chemical Society
(1) Session Chair “Ecological Risk Assessment for Chlorpyrifos in the US.
- (121) PacificChem International Chemical Congress of Pacific Basin Societies, Annual meeting, December 15-20 2015, Honolulu, Hawaii.
(1) Session Co-chair, “Chemicals of Emerging Environmental Concern: A Global Perspective”
- (122) Canadian Ecotoxicology Workshop, October 4-7, 2015, Saskatoon, SK, Canada
(1) Organizing Committee, Plenary Speakers

- (123) “Symposium on Environmental Health and Food Safety”, Faculty of Science, The University of Hong Kong, Hong Kong, SAR, PR China, January 14, 2016.

(1) Session Chair

- (124) “Dioxin 2017”. 37th annual International Symposium on Halogenated Persistent Organic Pollutants (POPs), August 20-25, Vancouver, Canada.

(1) Scientific Organizing Committee

- (125) “International Conference on Water Resources and Environment Research” (ICWRER 2019). June 14-18, 2019, Hohai University, Nanjing, China

(1) Scientific Organizing Committee

INVITED LECTURES: (322)

- (1) "Phytoplankton Stimulation by Humic Acids." To: Savannah River Ecology Laboratory. 1974.
- (2) "Role of Humic Substances in Aquatic Systems." To: Virginia Commonwealth University. 1974.
- (3) "Distribution of Metals in Southeastern Streams." To: University of Kentucky, Department of Geology. 1975.
- (4) "Humic Substances, What They are and Why They are Important in Natural Systems." To: Buffalo State College, Department of Biology. 1975.
- (5) "Stream Microcosms: Link Between Laboratory and Nature." To: Institute of Ecology, University of Georgia. 1976.
- (6) "Undergraduate Research Opportunities in Ecology at SREL." To: Spelman College. 1976.
- (7) "Undergraduate Research Opportunities in Ecology at SREL." To: Morris Brown College. 1976.
- (8) "Undergraduate Research Opportunities in Ecology at SREL." To: Morehead College. 1976.
- (9) "Undergraduate Research Opportunities in Ecology at SREL." To: Clark College. 1976.
- (10) "Graduate Research Opportunities in Ecology at SREL." To: Atlanta University. 1976.
- (11) "Stream Microcosm Research at SREL. Past, Present and Future. To: A Report on Progress and Projected Research." Microcosm Workshop, Oak Ridge National Laboratory. August 1976.
- (12) "Humic Substances in the Aquatic Environment: Implications for Biological Systems." To: Wake Forest University, Department of Biology. 1976.
- (13) "Metal Cycling in Aquatic Ecosystems." To: Skidaway Institute of Marine Sciences. 1976.
- (14) "Humic Substances in Aquatic Systems." To: University of Sydney, Departments of Zoology and Microbiology. 1976.
- (15) "Role of Humic Substances of Increased Phytoplankton Production under Iron Limited Conditions." To: New South Wales Institute of Technology, Department of Environmental Biology. 1976.
- (16) "Humic Substances in Natural Waters: What are They and Why are They Important?" To: Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography, Cronulla, Australia. 1976.

- (17) "Toxicity and Accumulation of Heavy Metals in Aquatic Systems." To: Australian National University, Zoology Department, Canberra, Australia. 1976.
- (18) "Role of Dissolved Organics in Metal Cycling and Toxicity in Soft Waters." To: Monash University, Department of Zoology, Melbourne, Australia. 1976.
- (19) "Fate and Biological Effects of Cadmium Introduced into Artificial Streams." To: Ministry for Conservation, Fisheries and Wildlife Division, Melbourne, Australia. 1976.
- (20) "Humic Substances in Natural Waters: What are They and Why are They Important?" To: Ministry of Conservation, Division of Fisheries and Wildlife, Melbourne, Australia. 1976.
- (21) "Accumulation of Metals by Fishes: A Case Study of Sample Preparation, Elemental Analysis and Data Interpretation." To: Ministry of Conservation, Fisheries and Wildlife Division, Melbourne, Australia. 1976.
- (22) "Metal Speciation in Southeastern Surface Waters." To: Caulfield Institute of Technology, Water Studies Center, Melbourne, Australia. 1976.
- (23) "Heavy Metal Toxicity to and Accumulation by Aquatic Organisms in Soft Water." To: University of Tasmania, Departments of Botany and Zoology, Hobart, Australia. 1976.
- (24) "Heavy Metals Associated With: Coal Ash and Cycling in a Swamp System." To: Departments of Botany and Zoology, University of Auckland, New Zealand. 1976.
- (25) "Cadmium Cycling in Aquatic and Terrestrial Systems, the Dispersed but Accumulated Element." To: University of Waikato, Department of Zoology and Wellington City Council, Wellington, New Zealand. 1976.
- (26) "Research into Heavy Metal Cycling and Toxicity being Conducted at SREL." To: Cawthron Institute, Nelson, New Zealand. 1976.
- (27) "Humic Acids: Role in Elemental Availability to Phytoplankton." To: Department of Scientific and Industrial Research, Freshwater Section, Ecology Division, Christchurch, New Zealand. 1976.
- (28) "Effect of Naturally Occurring Organic Acids on Metal Uptake by Algae and Bacteria." To: Department of Biology, Vanderbilt University, Nashville, TN. 1977.
- (29) "Research Opportunities at SREL." To: Biology Department, Fisk University, Nashville, TN. 1977.
- (30) "Fate and Biological Effects of Trace Metals in the Environment." To: Department of Environmental Engineering, University of Florida, Gainesville, FL. 1977.

- (31) "Comprehensive Overview of Heavy Metal Cycling and Toxicity Studies at SREL." To: Department of Biology and Belle Baruh Institute of Marine Biology, University of South Carolina, Columbia, SC. 1977.
- (32) "Toxicity and Bioassay." To: Department of Zoology, University of Georgia, Athens, GA. 1977.
- (33) "Humic Substances in Surface Waters." To: Limnological Institute of The University of Uppsala, Sweden. 1977.
- (34) "Trace Metal Cycling in Soft Waters." To: Freshwater Institute of The University of Hamburg, Germany. 1977.
- (35) "Humic Substances in Surface Waters." To: Environmental Chemistry Department, University of Amsterdam, The Netherlands. 1977.
- (36) "Humics, Metals, Algae and Bacteria." To: Limnological Institute, Oosterzee, The Netherlands. 1977.
- (37) "Trace Metal Speciation in Freshwater." To: Oak Ridge Associated Universities Special Training Class: Trace Metals in the Environment, Oak Ridge, TN. 1978.
- (38) "Trace Metal Speciation." To: Zoology Department, University of Georgia, Athens, GA. 1978.
- (39) "Channel Microcosms: Their Use in Studying the Fates and Effects of Cadmium in Aquatic Ecosystems." To: Vanderbilt University, Nashville, TN. 1979.
- (40) "Adenylate Energy Charge as an Indicator of Stress in Invertebrates." To: University of Tennessee, Knoxville, TN. 1979.
- (41) "Adenylate Energy Charge as an Indicator of Stress in Invertebrates." To: Georgia Fisheries Workers Association, Rome, GA. 1979.
- (42) "Monitoring and Predicting the Fates and Effects of Trace Contaminants in Aquatic Systems." To: Department of Biology, University of Alabama at Birmingham, Birmingham, AL. February, 1980.
- (43) "Monitoring and Predicting the Fates and Effects of Trace Contaminants in Aquatic Systems." To: Department of Biology, Oklahoma State University, Stillwater, OK. April, 1980.
- (44) "Monitoring and Predicting the Fates and Effects of Trace Contaminants in Aquatic Systems." To: Department of Biology, Langston University, Langston, OK. April, 1980.
- (45) "Adenylate Energy Charge as a Measure of Chronic Stressors in Aquatic Organisms." To: U. S. Fish and Wildlife Laboratory, La Crosse, WI. 1980.

- (46) "River Ecology of the Southeastern United States." To: The Fisheries Research Laboratory of Kagoshima Faculty of Fisheries, Department of Biology, Kagoshima, Japan. September, 1980.
- (47) "River Ecology of the Southeastern United States." To: The Japan National Institute for Environmental Studies, Yatabe, Japan. September, 1980.
- (48) "Ecology of the Southeastern United States." To: The Fisheries Research Laboratory of Kagoshima University, Azuma Town, Japan. September 4, 1980.
- (49) "Environmental Toxicology at Alma College." To: Alma College Beta Beta Beta Chapter. November, 1982.
- (50) "Photoenhanced Toxicity of PAH to Aquatic Organisms." To: Sigma Xi, Chemistry Department, Eastern Michigan University, Ypsilanti, MI. March, 1983.
- (51) "Ultraviolet light in the Great Lakes, Actinic Responses." To: Division for Great Lakes Research, University of Michigan, Ann Arbor, MI. April, 1983.
- (52) "Phototoxicity of PAH to Aquatic Organisms." To: Savannah River Ecology Laboratory, Aiken, SC. September, 1984.
- (53) "Metal Speciation: Determination of Conditional Stability Constants for Humic Substances." To: School of Public Health, University of Michigan, Ann Arbor, MI. April 1985.
- (54) "Photo-induced Toxicity of Polycyclic Aromatic Hydrocarbons to Aquatic Organisms." To: Toxicology Program, Duke University, Durham, NC. January, 1986.
- (55) "Toxic Substances in the Great Lakes." To: Genesee High School, Genesee, MI. March, 1986.
- (56) "Photo-induced Toxicity of Polycyclic Aromatic Compounds to Aquatic Organisms." To: Toxicology Research Center, SUNY, University at Buffalo With: visits to Great Lakes Institute, Buffalo State College, SUNY and Roswell Park Institute, Buffalo, NY. December, 1986.
- (57) "Sediment Toxicity Bioassays." To: Zoology Department, Department, Miami University, Oxford, OH. March, 1987.
- (58) "Sediment Toxicity Bioassay." To: Agricultural Chemicals Division, CIBA-GEIGY, Basel Switzerland. September, 1987.
- (59) "Toxicity of Sediments in the Lower Detroit River, Michigan." To: Research Center for Nature Management, Leersum, Holland. October, 1987.
- (60) "Sediment Toxicity Bioassay." To: Proctor and Gamble European Technical Center, Brussels, Belgium. October, 1987.

- (61) "Photo-induced toxicity of polycyclic Aromatic hydrocarbons to Aquatic Organisms." To: EAWAG/Swiss Federal Institute of Technology. Dubendorf, Switzerland. December, 1987.
- (62) "Sediment Toxicity Bioassay". To: Seenforschungs-Laboratorium der EAWAG/ETH, Kastanianbaum (Luzern), Switzerland. December 1987.
- (63) "Sediment Toxicity Bioassay." To: Istituto Di Idrobiologia, Pallanza Italy. December, 1987.
- (64) "Sediment Toxicity Bioassay". To: Center for Marine Research, Zagreb, Ruđer Bosković Institute, Zagreb, Croatia (Yugoslavia). January, 1988.
- (65) "Method of Sediment Toxicity Assessment in the Great Lakes". To: Alma College Departments of Chemistry and Biology, Alma, Michigan. October, 1988.
- (66) "Toxicity of Mixtures of Chlorinated Hydrocarbons to Fish-eating Birds in the Great Lakes Region". To: Sigma Xi Seminar Series. Michigan State University, E. Lansing, MI. October, 1988.
- (67) "Toxicity of Mixtures of Chlorinated Hydrocarbons to Fish-eating Birds in the Great Lakes Region". To: Sandoz Crop Protection Corp., Des Plaines, IL. December, 1988.
- (68) "Toxicity of Mixtures of Chlorinated Hydrocarbons to Fish-eating Colonial Water Birds in the Great Lakes Region". To: University of California-Davis. Chevron Distinguished Lecture in Environmental Toxicology, Davis, CA. January, 1989.
- (69) "Photo-induced Toxicity of Polycyclic Aromatic Hydrocarbons to Aquatic Organisms". To: Michigan State University Chapter of Sigma Xi, The Research Society Michigan State University, Acceptance Lecture for Junior Research Award. May, 1989.
- (70) "Effects of Contaminants on Reproduction of Great Lakes Salmonid Fishes". To: Michigan State University Laboratory Animal Resources". Acceptance Speech for Investigator of the Month Award. May, 1989.
- (71) "Photo-induced Toxicity in Aquatic Systems". To: Canadian Center for Toxicology, University of Guelph, Guelph, Ontario, Canada. June, 1989.
- (72) "Toxicity of Complex Mixtures of Polychlorinated Hydrocarbons to Wildlife in the Great Lakes Region". To: Canadian Wildlife Service, Ottawa, Canada. June, 1989.
- (73) "Contaminants in the North American Great Lakes and Their Effects on Fish and Wildlife". To: Institut für Wasser-Boden und Luft hygiene des Bundesgesundheitsamtes, Berlin. August, 1989.
- (74) "Sediment Toxicity Assessment Techniques". To: U.S. Environmental Protection Agency, Environmental Research Laboratory Duluth, MN. September, 1989.

- (75) "Sediment Toxicity Assessment: Application to Western Lake Erie and Toledo Harbor". To: University of Toledo, Dept. Biology, Toledo, OH. May, 1990.
- (76) "Methods of Assessing the Toxicity of Sediments". To: Technical University of Aachen, Aachen, West Germany. August, 1990.
- (77) "Concentrations of PCBs and Dioxins in Bird Eggs of the North American Great Lakes Region". To: Institute for Inland Water Management and Waste Water Management. Lelystad, The Netherlands. August, 1990.
- (78) "Methods of Assessing the Toxicity of Sediments". To: Free University of Amsterdam, Amsterdam, The Netherlands. August, 1990.
- (79) "Fates and Effects of Chlorinated Hydrocarbons on the Wildlife of the North American Great Lakes". To: Instytut Inzynierit Srodowiska Poznan, Poland. Aug. 17, 1990.
- (80) "Contaminants in Fishes of the North American Great Lakes and Fish Consumption Advisories". To: National Institute of Public Health and Environmental Protection. Bilthoven, the Netherlands. February 7, 1992.
- (81) "Effects of Contaminants on Fish-Eating, Colonial Water Birds of the North American Great Lakes". To: The Agricultural University of Wageningen, the Netherlands. February 6, 1992.
- (82) "Contaminants in the North American Great Lakes". To: The Department of Environmental Biology, State University of Ghent, Ghent, Belgium. February 10, 1992.
- (83) "Fates and Effects of Trace Contaminants in the North American Great Lakes" To: Ecotoxicology Department, University of Bordeaux, Bordeaux, France.
- (84) "Effects of Chlorinated Hydrocarbons of Fish-eating Birds of the Great Lakes. To: Biology Department, University of Waterloo, Ontario, Canada, September 17, 1992.
- (85) "Coplanar PCB's, PCDD and PCDF in and Their Effects on Fish-Eating, Colonial Waterbirds of the Great Lakes". To: Biology Department, Trent University, Peterborough, Ontario, Canada, Jan. 26, 1993.
- (86) "Eagles of the Great Lakes Basin: Interactions Among Habitat Availability, Human Disturbance and Contaminants." To: Ecology and Evolutionary Biology Seminar, Michigan State University. February 3, 1993.
- (87) "Effects of Toxic Chemicals on Birds of the Great Lakes Region." To: Fisheries and Wildlife Club, Michigan State University. March 10, 1993.
- (88) "Concentrations of Synthetic Chemical in and Their Effects on Birds of the Great Lakes Region." To: Michigan Occupational and Environmental Medical Association. Annual Meeting. Dearborn, MI. June 11, 1993.

- (91) "Monitoring bald eagle population in the Great Lakes Basin". To: Technical University of Berlin. Berlin, Germany, August 29, 1993.
- (92) "The caffeine breath test for the determination of the induction status of mixed function monooxygenase enzymes in birds". To: Technical University of Berlin. Berlin, Germany, August 29, 1993.
- (93) "Effects of 2,3,7,8-TCDD on the reproduction of rainbow trout: Significance for the Great Lakes and Baltic Ecosystems". To: Institute of Environmental Chemistry, University of Umeå, Sweden, October 24, 1993.
- (94) "Contaminants in Birds of the Great Lakes Basin". To: Chippewa Nature Center, Midland Michigan, February 4, 1994.
- (95) "Understanding the IJC initiative for virtual elimination of chlorine chemistry in the Great Lakes Basin". To: Michigan Environmental Science Bd. February 9, 1994.
- (96) "Hazard assessment of the concentrations of PCBs in the lower Saginaw River, Michigan". To: Environmental Toxicology Department, University of California at Davis, March 11, 1994.
- (97) "Contaminants in and Their Effects on Wildlife of the North American Great Lakes". To: Dept. Physiology, University of Kuopio, Kuopio, Finland, May 13, 1994.
- (98) "Dioxin Equivalents in Biota of the North American Great Lakes:.. To: National Public Health Institute, Division of Environmental Health, Kuopio, Finland, May 13, 1994.
- (99) "Bald Eagle Populations of the North American Great Lakes: Population Trends and Persistent Toxic Chemicals". Dept. Biology, University of Joensuu, Joensuu, Finland, May 17, 1994.
- (100) "Contaminants in and Their Effects on Wildlife of the North American Great Lakes". To: Dept. of Biology University of Joensuu, Joensuu, Finland, May 19, 1994.
- (101) "Effects of Chlorinated Hydrocarbons on the Colonial Fish-eating Water Birds of the North American Great Lakes". To: Dept. Organic Chemistry, University of Jyväskylä, Jyväskylä, Finland, May 20, 1994.
- (102) "Bald Eagle Populations of the North American Great Lakes. To: Dept. Biology, University of Jyväskylä, Jyväskylä, Finland, May 20, 1994.
- (103) "Contaminants in Wildlife of the North American Great Lakes: Trends and Effects". To: Medical College of the University of Turku, Turku, Finland, May 23, 1994.
- (104) "Wildlife Hazard Assessments in the North American Great Lakes". To: Ecology Institute, Åbo Akademi, Turku, Finland, May 23, 1994.

- (105) "Toxicity of 2,3,7,8-TCDD to Rainbow Trout". To: Finish Game and Fisheries Research Institute, Helsinki, Finland, May 24, 1994.
- (106) "Toxicity of 2,3,7,8-TCDD-like Compounds to the Birds of the North American Great Lakes". To: Finish Game and Fish Research Institute, Helsinki, Finland, May 24, 1994.
- (107) "Toxicity of 2,3,7,8-TCDD-like Compounds to the Birds of the North American Great Lakes". To: University of Illinois College of Veterinary Medicine, Urbana-Champaign, Illinois, September 2, 1994.
- (108) "Contaminants in Albatross of Midway Atol: An Ecological Risk Assessment. To: Research Institute of Toxicology, University of Utrecht, Utrecht, The Netherlands, December, 1994.
- (109) "Polychlorinated Diaromatic Hydrocarbons in the Environment: Implications of Global Contamination. *Vollenweider Lecture in Aquatic Sciences*. To: National Water Research Institute, Environment Canada, Burlington, Ontario, Canada, January 5, 1995.
- (110) "Contaminants in the Great Lakes: Effects on Wildlife Populations". To: National Water Research Institute, Environment Canada, Burlington, Ontario, Canada, January 6, 1995.
- (111) "Concentrations of Di-aromatic, Halogenated Hydrocarbons in and their Effects on Colonial, -eating, Water Birds of the Great Lakes". To: Environmental Sciences Division of Oak Ridge National Laboratories, Oak Ridge, TN, June 29, 1995,
- (112) "Concentrations and Effects of Polychlodiaromatic Hydrocarbons in Great Lakes Wildlife" To: Dept. Food Science and Human Nutrition, Michigan State University. Feb. 8, 1996.
- (113) "Leadership means respect and communication". To: Alma College Senior Leadership Recognition Banquet, Alma Michigan, March 8, 1996,
- (114) "Monitoring for the Effects of Environmental Estrogens on Fishes". To: Dept. Toxicology, Wageningen Agricultural University, Wageningen, The Netherlands, August 20, 1996.
- (115) "Ecological Risk Assessments in Natural Resource Damage Assessments". To: Rohm and Haas Corp., December 2, 1996, Spring House Pennsylvania.
- (116) "Chlorinated Hydrocarbons in Birds of the North Central Pacific Ocean: Implications for Global Contamination". To: Rohm and Haas Corp., December 2, 1996, Spring House Pennsylvania.
- (117) "An Ecological Risk Assessment of Atrazine in Surface Waters of the Central United States". To: Rohm and Haas Corp., December 2, 1996, Spring House Pennsylvania.
- (118) "Monitoring for Complex Mixtures of Estrogen Agonists in the Aquatic Environment: Development of Biomarkers and *in vitro* Assays and Determination of Effects in Fishes". To: Haskell Laboratories of the Dupont Corp. December 4, 1996, Newark, Delaware.

- (119) "Are Endocrine Disruptors Impacting Wildlife? A Review of the Evidence". To: ILSI Risk Science Institute and the Brookings Institution and Society for Risk Analysis, October 23, 1996, Washington, DC.
- (120) "Status and Trends in Albatross Populations in the Pacific Ocean". To: Dept. Fisheries and Wildlife Seminar Series, April 23, 1997, East Lansing, Michigan.
- (121) "Trends and Implications of Chlorinated Hydrocarbons in Fish and Wildlife of the North American Great Lakes". To: Nicholas School of the Environment, Duke University, March 6, 1997, Durham, North Carolina.
- (122) "Albatross of the North Pacific Ocean: A Study of Global Contamination. February 5, 1997, Zoology Department, Michigan State University, East Lansing, Michigan.
- (123) "Monitoring for estrogen-like activity in surface waters". To: ECT GmbH., Flörsheim/Main, Germany, June 4, 1997.
- (124) "Strategies for Assessing Estrogenic Compounds in Aquatic Systems". To: Ecotoxicology Colloquium, Technical University of Berlin, June 10, 1997, Berlin Germany.
- (125) "Effects of Contaminants and Fishing By-catch on Albatrosses of the North Central Pacific Ocean". To: Netherlands Institute for Sea Research, June 11, 1997 Texel, The Netherlands.
- (126) "Trends and Effects of Contaminants in the North American Great Lakes" To: The Institute of Wildlife Ecology and Toxicology, Clemson University, September 6, 1997, Clemson, South Carolina
- (127) "Use of Toxic Equivalency Factors in Ecological Risk Assessments of PCBs" To: General Electric Environmental Services Branch, September 12, 1997, Pittsfield, Massachusetts.
- (128) "Development of Biomarkers, *in vitro* assays and Determination of Estrogenic Effects in Fishes". To: Departments of Environmental and Community Health Research and Department of Pharmacology, University of Mississippi, September 18, 1997, Oxford, Mississippi.
- (129) "Endocrine Disrupters in the Environment". To: Department of Chemistry, University of Michigan, December 1, 1997, Ann Arbor, Michigan.
- (130) "Trends and Effects of Contaminants in the North American Great Lakes". To: Institute of Environmental Sciences, University of North Texas, March 9, 1998, Denton, Texas.
- (131) "Trends and Effects of Contaminants in the North American Great Lakes". To: University of California at Los Angeles (UCLA) School of Public Health, March 12, 1998, Los Angeles, California.
- (132) "Endocrine Disrupters in the Environment". To: University of Michigan, School of Public Health, March 21, 1998, Ann Arbor, Michigan.

- (133) "Estrogen Mimicking Compounds in the Environment: Ecological Effects" To: Institute of Environmental Sciences, University of North Texas, June 23, 1998, Denton, Texas.
- (134) "Status and Trends of Contaminants in and their Effects on Fish and Wildlife of the North American Great Lakes". To: University of Texas Marine Research Laboratory, July 30, 1998, Port Aransas, Texas.
- (135) "Ecological Risk Assessments for PCBs; Biochemical and Probabilistic Methods.". To: The Kalamazoo River Study Group, Sept, 9, 1998, Syracuse, New York.
- (136) "Status and Trends in Albatross Populations in the Pacific Ocean". To: Chippawa Nature Center, Sept 19, 1998, Midland, Michigan.
- (137) "Organochlorines in the New Zealand Environment". To: Regional Council and Public, September 30, 1998, Whangarei, New Zealand.
- (138) "Organo-chlorines in the New Zealand Environment". To: Chemistry Department and Public, University of Auckland October 1, 1998, Auckland, New Zealand.
- (139) "Ecological Risk Assessment Approaches for Organo-chlorines in the New Zealand Environment." To: Ministry of the Environment, October 1, 1998, Auckland, New Zealand.
- (140) "Organo-chlorines in the New Zealand Environment". To: Public, October 2, 1998, Hamilton, New Zealand.
- (141) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 5, 1998, Wakatane, New Zealand.
- (142) "Ecological Risk Assessment Approaches for Organo-chlorines in the New Zealand Environment." To: Ministry of the Environment, Organo-chlorines Advisory Panel , October 1, 1998, Rotorua, New Zealand.
- (142) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 7, 1998, Palmerston North, New Zealand.
- (144) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 8, 1998, Wellington.
- (145) "Ecological Risk Assessment Approaches for Organo-chlorines in the New Zealand Environment." To: Ministry of the Environment, October 8, 1998, Wellington, New Zealand.
- (146) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 9, 1998, Nelson and Tasman, New Zealand.
- (147) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 12, 1998, Invercargill, New Zealand.

- (148) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 13, 1998, Dunedin, New Zealand.
- (149) "Organo-chlorines in the New Zealand Environment". To: Regional Council and Public, October 12, 1998, Christchurch, New Zealand.
- (150) "Monitoring for the Effects of Endocrine Disruptors in Surface Waters" To: City University of Hong Kong, Jan. 6, 1999 Hong Kong, china.
- (151) "Risk Assessments of Polychlorinated Biphenyls (PCBs)". With: K. Kannan. To Dept. Environmental Chemistry and Ecotoxicology, Masaryk University, Sept. 23, 1999, Brno, Czech Republic.
- (152) "Relative Potencies and Toxic Potentials of Polychlorinated Naphthalenes (PCNs)". With: K. Kannan. To Dept. Environmental Chemistry and Ecotoxicology, Masaryk University, Sept. 23, 1999, Brno, Czech Republic.
- (153) "Chloro-s-triazine Herbicides and Certain Metabolites Induce Aromatase (CYP-19) Activity in H295R Human Adrenocortical Carcinoma Cells". To National Food Safety and Toxicology Center. October 1, 1999.
- (154) "Risk Assessments for Dioxin-Like Chemicals in the Aquatic Environment". To: Tokyo University of Fisheries, Tokyo, Japan, December 11, 1999.
- (155) "Ecological Risk Assessments in Aquatic Systems". To: Institute of Environmental Science & Technology, Yokohama University, Yokohama, Japan, December, 13, 1999.
- (156) "Accumulation and Effects of PCBs in Aquatic Organisms". To: National Institute for Resources and Environment, Tsukuba, Japan, December 15, 1999.
- (157) "Vitellogenin as a Biomarker for Exposures of Fishes to Estrogenic Substances" To: National Institute for Resources and Environment, Tsukuba, Japan, December 15, 1999.
- (158) "Dioxins and Dioxin-Like Chemicals in the Aquatic Environment--Different, Yet Similar". To Center for Marine Environmental Studies, Ehime University, Matsuyama, Japan.
- (159) "Albatross of the North Central Pacific: Status and Trends of Populations and Contaminants". To Ecology, Evolution and Behavioral Biology Program, Michigan State University, East Lansing, Michigan.
- (160) "Strategies for Screening and Testing of Endocrine Disrupting Chemicals". To Department of Oceanography, Seoul National University, Seoul, Korea, September 6, 2001.
- (161) "Bioassay-directed Fractionation Analytical and Bioanalytical Methods for Identifying and Quantifying Endocrine Disruptors in Water". To Pohang University, Pohang, Korea, September 12, 2001.

- (162) “Perfluooctanesulfonate (PFOS) in the Environment”. To Reproductive Toxicology Section, US EPA National Health and Environmental Effects Laboratory, Research Triangle Park, North Carolina, November 8, 2001.
- (163) “Perfluooctanesulfonate (PFOS) in the Environment”. To National Food Safety and Toxicology Center, Michigan State University, East Lansing, Michigan, December 10, 2001.
- (164) “Perfluooctanesulfonate (PFOS) in the Environment”. To: Biology and Chemistry Departments, University of Potchefstroom, Potchefstroom, South Africa, October 9, 2002.
- (165) “Perfluooctanesulfonate (PFOS) in the Environment”. To: Environmental Sciences Program, Alma College, Alma, Michigan, December 4, 2002.
- (166) “Status and Trends and Consequences of Halogenated Hydrocarbons in the Great Lakes”. To: Alma Environmental Action Group, Alma, Michigan, December 4, 2002.
- (167) “Instrumental and Bioanalytical Approaches to Assessing the Sources and Distribution of Polychlorinated Dibenzo-*p*-dioxins and Polychlorinated Dibenzofurans”. To: Technical Advisory Group, Pine River Michigan Superfund Site. Alma, Michigan, December 4, 2002.
- (168) “Perfluorinated Compounds in the Environment: The Discovery of a Novel Chemical Class” To: Hong Kong University of Science and Technology, February 27, 2003.
- (169) “Perfluorinated Compounds in the Global Environment”, To: Department of Environmental Toxicology, University of Bayreuth, Bayreuth, Germany, October 6, 2003.
- (170) “Perfluorinated Compounds in the Environment”, To: Department of Environmental Toxicology, Masaryk University, Brno, Czech Republic, October 8, 2003.
- (171) “Endocrine Disruptors in the Environment-Bioanalytical Tools for Assessment”, To: Department of Environmental Toxicology, Masaryk University, Brno, Czech Republic, October 9, 2003.
- (172) “Optimization of the H295R Cell Line for Use in Evaluating Toxicant-Induced Effects of Steroidogenesis”, To: US EPA, NHEERL, Reproductive Toxicology Branch, October 20, 2003, Research Triangle Park, NC.
- (173) “Perfluorinated Compounds in the Environment: Current Research at MSU. To: Center for Integrative Toxicology, Michigan State University, November 18, 2003.
- (174) “Monitoring and Ecological Risk Assessment of Environmental Endocrine Disruptors”, To: School of the Environment, Nanjing University, Nanjing, China, December 8, 2003.

- (175) "Is the Widely-Used Herbicide Atrazine an Endocrine Disruptor? If so, what is the risk? " To: National Food Safety and Toxicology Center, Michigan State University, East Lansing, Michigan, March 1, 2004.
- (176) "Ecological Risk Assessments for the Presence of Perfluorinated Hydrocarbons in Asian Coastal Waters". To: School of the Environment, Nanjing University, Nanjing, China, June 13, 2004.
- (177) "Toxicity of Perfluorooctanesulfonate". To: National Institute of Advanced Industrial Science and Technology (AIST) Institute for Environmental Management Technology (EMTECH), Japan, December 7, 2004.
- (178) "Scientific Ethics in the 21st Century". To: Faculty of Science, City University of Hong Kong, Kowloon, Hong Kong, SAR, China, December 13, 2004.
- (179) "Endocrine Disruptor Mechanisms: Beyond Receptor Binding". To: Civil and Environmental Engineering Dept., University of Michigan, Ann Arbor, Michigan, April 8, 2005.
- (180) "Bioanalytical methods for monitoring the environment". To: Biology Department, University of Örebro, Örebro, Sweden, November 25, 2005.
- (181) "Uptake of PCDD/DF and Potential Effects on Wildlife of the Tittabawassee River, Michigan, USA". To: State Key Laboratory of Organic Chemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, China, December 7, 2005.
- (182) "Uptake of PCDD/DF and Potential Effects on Wildlife of the Tittabawassee River, Michigan, USA". Dept. Environmental Science, Nanjing University December 9, 2005.
- (183) "Uptake of PCDD/DF and Potential Effects on Wildlife of the Tittabawassee River, Michigan, USA". To: Freshwater Fishery Research Institute of Jiangsu Province (Nanjing), China, December 10, 2005.
- (184) "Uptake of PCDD/DF and Potential Effects on Wildlife of the Tittabawassee River, Michigan, USA". To: University of Yokohama, December 13, 2005.
- (185) "Perfluorinated Compounds in the Environment: The History of an Environmental Issue". To: Environmental Explorations, Dept, Biology, Oakland University, Rochester, Michigan, February, 7, 2006.
- (186) "Eco-Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment. To: US EPA Exposure Laboratory, Athens, GA, (Web Cast to 20 EPA offices and laboratories across the country). March 23, 2006.
- (187) "Perfluorinated Compounds in the Environment: The History of an Environmental Issue." To: Environmental Health Sciences Program, University of Georgia, Athens, Georgia, March 23, 2006.

- (188) “Ecological Risk Assessment and the Tittabawassee River, Why, How, and Who Cares?” With: M. Zwiernik. To: Chippewa Nature Center, Midland, Michigan. April 13, 2006.
- (189) “Fishing for Answers! Using Two Fish-Eating Birds (the Belted Kingfisher and Great Blue Heron) as Receptors in the Tittabawassee River Ecological Risk Assessment”. With: R. Seston. To: Chippewa Nature Center, Midland, Michigan. April 20, 2006.
- (190) “WHOOOS WHOOO??? The Great Horned Owl (*Bubo Virginianus*) as a Terrestrial Indicator Species in the Ecological Risk Assessment for the Tittabawassee River and Floodplain.” With: S. Coefield. To: Chippewa Nature Center, Midland, Michigan. April 27, 2006.
- (191) “From Bugs to Birds: An Assessment of Song Bird Dietary Exposure to PCDFs and PCDDs in the Tittabawassee River Floodplain”. With: T. Fredricks. To: Chippewa Nature Center, Midland, Michigan. May 4, 2006.
- (192) “Uptake of PCDD/DF and Potential Effects on Wildlife of the Tittabawassee River, Michigan, USA”. To: 3rd International Conference on Environmental Enhancement and Sustainable Development. Hohhot, Inner Mongolia, August 4-8, 2006. ***Invited Plenary Keynote***
- (193) “Perfluorinated Compounds: A Novel Class of Global Pollutants.” To Carleton University, Ottawa, Ontario, November 1, 2006. ***Invited***
- (194) “Understanding the Ecological Risk of Dioxin-like Compounds: Species Sensitivity, the Great Leap Forward.” With: M.J. Zwiernik. To The National Wildlife Research Centre, Environment Canada, Ottawa, Ontario, Canada, November 1, 2006. ***Invited***
- (195) “Perfluorinated Compounds: A Novel Class of Global Pollutants.” To: Center of Excellence in Environmental Chemistry (CEEC) at the Swiss Federal Institute of Technology (ETH), Zürich, Switzerland, December 14, 2006. ***Ignited***
- (196) “Elucidating Changes in Aromatase (CYP19) Gene Expression in Japanese Medaka (*Oryzias latipes*) Exposed to Fadrazol: In situ Hybridization in a Whole Animal Model. With: A. Tompsett, J.W. Park, X. Zhang, M. Hecker, J.L. Newsted, P.D. Jones, D. Au, P.K.S. Lam and R. S.S. Wu. To: Institute of Oceanography, Chinese Academy of Sciences, and State Key Laboratory of Marine Ecology & Environmental Sciences, Qingdao, PR China, January 9, 2007. ***Invited***
- (197) “Elucidating Changes in Aromatase (CYP19) Gene Expression in Japanese Medaka (*Oryzias latipes*) Exposed to Fadrazol: In situ Hybridization in a Whole Animal Model. With: A. Tompsett, J.W. Park, X. Zhang, M. Hecker, J.L. Newsted, P.D. Jones, D. Au, P.K.S. Lam and R. S.S. Wu. To: State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, PR China, January 11, 2007. ***Invited***
- (198) “Perfluorinated Chemicals: The History of an Environmental Issue” To: Division of Analytical and Environmental Toxicology, Department of Laboratory Medicine and

- Pathology, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Alberta, May 3, 2007. ***Invited***
- (199) “Biochemistry and Toxicology of Perfluorinated Compounds”. With: Paul D. Jones. To: Division of Analytical and Environmental Toxicology, Department of Laboratory Medicine and Pathology, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Alberta, May 3, 2007.
 - (200) “Monitoring of Exposure to and Potential Effects of Contaminants in the Environment”. With: R.S.S. Wu, D.W.T. Au, A. Chan, P.K.S. Lam and B. Richardson. To: Nanjing University, School of the Environment, Nanjing, China, January 14, 2008.
 - (201) “Monitoring for Novel Compounds in the Environment and Status and Trends of Emerging pollutants”. With: R.S.S. Wu, D.W.T. Au, A. Chan, P.K.S. Lam and B. Richardson. To: Freshwater Fishery Research Institute of Jiangsu Province (Nanjing), China, January 15, 2008.
 - (202) “Monitoring and Measuring POPs in the Context of Risk Assessment”. With: R.S.S. Wu, D.W.T. Au, A. Chan, P.K.S. Lam and B. Richardson. Provincial Environment Agency, Jiangsu Province (Nanjing), China, January 16, 2008.
 - (203) “Monitoring for Novel Compounds in the Environment and Status and Trends of Emerging pollutants”. With: R.S.S. Wu, D.W.T. Au, A. Chan, P.K.S. Lam and B. Richardson. To: University of Beijing, Beijing China, January 18, 2008.
 - (204) “Monitoring of Exposure to and Potential Effects of Contaminants in the Environment”. With: R.S.S. Wu, D.W.T. Au, A. Chan, P.K.S. Lam and B. Richardson. To: Chinese Academy of Sciences, Research Center for Ecology and Environmental Sciences, Beijing, China, January 14, 2008.
 - (205) “Monitoring for Novel Compounds in the Environment and Status and Trends of Emerging pollutants”. With: R.S.S. Wu, D.W.T. Au, A. Chan, P.K.S. Lam and B. Richardson. To: Chinese Academy of Sciences, Research Center for Ecology and Environmental Sciences, Beijing, China, January 14, 2008.
 - (206) “Perfluorinated Chemicals: The History of an Environmental Issue” To: University of Manitoba, Winnipeg, MN, June 9, 2008. ***Invited***
 - (207) “Keys to Research and Innovation Success”. Research Services Day, University of Saskatchewan, Saskatoon, SK, August 28, 2008. ***Invited, Plenary Keynote***
 - (208) “Polyfluorinated Compounds: A Novel Class of Global Pollutants-History”. College of Oceanography and Environmental Science and Marine Environmental Laboratory, Xiamen University, Xiamen, China, February 16, 2009. ***Invited***
 - (209) “Application of Toxicogenomic Approaches to Study Chemical-Induced Effects on the Hypothalamic-Pituitary Gonadal (HPG) Axis of the Japanese Medaka (*Oryzias latipes*).”

- To: Environmental Sciences Program, Nanjing University, Nanjing, China, February 19, 2009. **Invited**
- (210) “Application of Toxicogenomic Approaches to Study Chemical-Induced Effects on the Hypothalamic-Pituitary Gonadal (HPG) Axis of the Japanese Medaka (*Oryzias latipes*).” To: (Research Center for Eco-Environmental Sciences (RCEES), of the Chinese Academy of Sciences, Beijing, China, February 23, 2009. **Invited**
- (211) “Application of Toxicogenomic Approaches to Study Chemical-Induced Effects on the Hypothalamic-Pituitary Gonadal (HPG) Axis of the Japanese Medaka (*Oryzias latipes*).” To: College of Urban and Environmental Sciences, Peking University, Beijing, China, February 25, 2009. **Invited**
- (212) “Perfluorinated Chemicals: The History of an Environmental Issue”. To: Department of Biology, Hong Kong Baptist University, Hong Kong, China, March 2, 2009. **Invited**
- (213) “Ecological Risk Assessment of Perfluorinated Chemicals in the Environment”. To: Department of Environmental Engineering Program, University of Alberta, Edmonton, Alberta. March 19, 2009. **Invited**
- (214) “Eco-toxicological Evaluation of Perfluorooctanesulfonate (PFOS) in the Environment. To: Dept. of Pathology and Laboratory Medicine, University of California at Los Angeles, May 27, 2009. **Invited**
- (215) “Endocrine Disruptor Mechanisms and Screening: Beyond Receptor Binding.” To: Einstein Professor Lecture at Awards Ceremony, Chinese Academy of Sciences, Beijing, China, September 4, 2009. **Invited**
- (216) “An environmental risk assessment of several passerine bird species exposed to elevated concentrations of polychlorinated dibenzofurans while breeding in the river floodplains downstream of Midland, Michigan, USA”. To: Einstein Professor Lecture at Research Center for EcoEnvironmental Sciences, Chinese Academy of Sciences, Beijing, China, September 5, 2009. **Invited**
- (217) “Perfluorinated Chemicals in the Environment: Anatomy of an Environmental Issue”. To: Einstein Professor Lecture at University of Science and Technology of China, HeBei, China, September 8, 2009. **Invited**
- (218) “Water Quality Analysis Report: Nutrient loading and toxic algal blooms in Lake Diefenbaker” To: Mid Saskatchewan Regional Economic and Co-operative Development public meeting, Riverhurst, Saskatchewan, October 28, 2009. **Invited**
- (219) “Eco-Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment”. To: School of Biological Sciences, Hong Kong, February 22, 2010. **Invited**
- (220) “An environmental risk assessment of several passerine bird species exposed to elevated concentrations of polychlorinated dibenzofurans while breeding in the river floodplains

- downstream of Midland, Michigan, USA”. To: Department of Biology and Chemistry, City University of Hong Kong, February 2010. ***Invited***
- (221) “Eco-Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment”. To: 17th Annual Life and Health Sciences Research Day, University of Saskatchewan, March 12, 2010, ***Invited***
- (222) “Eco-Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment”. To: Department of Biology, University of Regina, September 10, 2010. ***Invited***
- (223) “OH-PBDE and MeO-PBDE’s: Methods, Sources and Consequences”. With: Y. Wan, S. B. Wiseman, X. W. Zhang, H. Chang, M. Hecker, P. D. Jones, M. H.W. Lam, K. Choi, S. Kim, K. Ji, J. S. Khim, S. Park, S. Park, J. Park. To: Department of Biology, University of Saskatchewan, September, 24, 2010. ***Invited***
- (224) “Natural and Artificial sources of OH-PBDE and MeO-PBDE’s in the Marine Environment. To: Canadian Center for Inland Waters, Environment Canada. November 24, 2010. ***Invited***
- (225) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. To: School of Environment, Nanjing University, Nanjing, China, January 25, 2011. ***Invited***
- (226) “Organo-bromine compounds in the environment”. To: Marine Environment Laboratory, School of Oceanography, Xiamen University, Xiamen, China, January 23, 2011, ***Invited***.
- (227) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. To: Biology and Chemistry Department, City University of Hong Kong, Hong Kong, China, February 8, 2011. ***Invited***
- (228) “Bottom-up and Top –Down: Do the Risk Assessments meet in the Middle?”. To: Department of Biology Baptist University of Hong Kong, Hong Kong, China, February, 9, 2011. ***Invited***
- (229) “Bottom-up and Top –Down: Do the Risk Assessments meet in the Middle?”. To: School of Biology, University of Hong Kong, Hong Kong, China, February, 11, 2011, ***Invited***
- (230) “Bottom-up and Top-down: Do the Risk Assessments Meet in the Middle”. To: Biology Department, Korea University, Seoul Korea, February 16, 2011. ***Invited***
- (231) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. To: Medical College of Shantou University, Shantou, China, February 24, 2011. ***Invited***
- (232) “Probabilistic Risk Assessment: A short course introduction to PRAT, The Probabilistic Risk Assessment Tool”. To: Department of Biology Baptist University of Hong Kong, Hong Kong, China, February, 22, 2011. ***Invited***
- (233) “Tracing Chemical Toxins: A Saga of Environmental Sleuthing”. To Canada Research Chair Water Week, University of Saskatchewan, Saskatoon, SK, March 23, 2011. ***Invited***

- (234) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. To: Zoology Department, King Saud University, Riyadh, Saudi Arabia, April, 2011, ***Invited***
- (235) “Bottom-up and Top-down: Do the Risk Assessments Meet in the Middle?”. To: Zoology Department, King Saud University, Riyadh, Saudi Arabia, April, 2011, ***Invited***
- (236) “Tracing Chemical Toxins: A Saga of Environmental Sleuthing”. To: Zoology Department, King Saud University, Riyadh, Saudi Arabia, April, 2011, ***Invited***
- (237) “Predicting the Toxic Potency of *Any* Dioxin-like Compound to *Any* Avian Species”. To: Peking University, Beijing, China, June 20, 2011. ***Invited***
- (238) “Predicting the Toxic Potency of *Any* Dioxin-like Compound to *Any* Avian Species”. To: Nanjing University, School of the Environment, Nanjing, China, June 22, 2011-06-2011. ***Invited***
- (239) “Brominated Chemicals in the Environment”. To: ShanXi University, Taiyuan, China, June 28, 2011, ***Invited***
- (240) “Ecological Risk Assessments. To: Taiyuan Normal University, TaiYuan, China, June 29, 2011, ***Invited***
- (241) “Elucidation of the Mechanism of Relative Sensitivities of Birds to Dioxins: A bold Research Goal”. To: Toxicology 990, University of Saskatchewan, November 7, 2011. ***Invited***
- (242) “Oilsands Development, the Good the Bad and the Ugly. To: School of Environment and Sustainability, University of Saskatchewan, Saskatoon, SK. November 25, 2011. ***Invited***
- (243) “Oil Sands, Alberta, Canada: Toxicity and Treatment of Oil Sands Process-Affected Water (OSPW)” To: Department of Biology and Chemistry, City University of Hong Kong, February 1, 2012. ***Invited***
- (244) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: A Bold Research Goal!” To: Department of Biology, Baptist University of Hong Kong, Hong Kong, China, February, 1, 2012. ***Invited***
- (245) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: A Bold Research Goal!” To: School of Biology, University of Hong Kong, Hong Kong, China, February, 11, 2011, ***Invited***
- (246) “Oil Sands, Alberta, Canada: Toxicity and Treatment of Oil Sands Process-Affected Water (OSPW)” To: State Key Laboratory for Geochemistry, Gunagzhou, China, February 17, 2012. ***Invited***

- (247) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: A Bold Research Goal!” To: Department of Biology, Sun Yat Sen University, Guangzhou, China, February, 18 2012. *Invited*
- (248) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: A Bold Research Goal!” To: School of Environment, Nanjing University, Nanjing, China, February 22 2012. *Invited*
- (249) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: A Bold Research Goal!” To: College of Urban and Environmental Sciences, Peking University, Beijing, China, February 23, 2012. *Invited*
- (250) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: A Bold Research Goal!” Zoology Dept., To: King Saud University, May 7, 2012. *Invited*
- (251) “Scientific Writing: Tips on dissertations and manuscripts”. To: King Saud University-Women’s Branch, May 8, 2012. *Invited*
- (252) “Alberta Oil Sands: Toxicity and Treatment of Oil Sands Process-Affected Water (OSPW)”, To: Zoology Dept., King Saud University May 9, 2012. *Invited*
- (253) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. To: RECETOX, Masaryk University, Brno, Czech Republic, May 7, 2012. *Invited*
- (254) “Dioxins in the Environment: Unraveling the Reason for Differential Sensitivity in Birds: “A Bold Research Goal!” To: Chinese Research Academy for Environmental Sciences (CRAES), Beijing, China, July 6, 2012. *Invited*
- (255) “Alberta Oil Sands: A Social, Political and Environmental Issue”. To: “.Research Center for EcoEnvironmental Sciences, Chinese Academy of Sciences, Beijing, China, July 7, 2012. *Invited*
- (256) “Alberta Oil Sands: A Social, Political and Environmental Issue”. To: ShanXi University, Taiyuan, China, July 9, 2012. *Invited*
- (257) “OH-PBDEs and MeO-PBDEs: Methods, Sources and Consequences”. To: Baylor University, Waco, Texas, September 31, 2012. *Invited*
- (258) “Predicting the Toxic Potency of *Any* Dioxin-like Compound to *Any* Avian Species”. To: US Geological Survey, Midcontinent research Laboratory, Columbia, MO, August 12, 2013. *Invited*
- (259) “Status and Trends of Contaminants in Bohai Bay and the Yellow Sea: An International Perspective”. With: Y.L. Lu, T. Wang, Luo, J. Park, J.S. Khim. Toxicology, Centre, University of Saskatchewan, Saskatoon, SK, September, 23, 2013. *Invited*
- (260) “Predicting among-species Sensitivities of Fish and Birds to Dioxin-like Chemicals”. To: Peking University, Beijing, China, June 6, 2014. *Invited*

- (261) “Brominated Flame Retardants in the Environment”. To: Peking University, Beijing, China, June 7, 2014. ***Invited***
- (262) “Predicting the Toxicity of the over 250,000 Chemicals in Oil Sands Process Affected Water”. To: Peking University, Beijing China, June 8, 2014. ***Invited***
- (263) “Ecological Exposure Assessment”. To: Peking University, Beijing, China, June 9, 2014. ***Invited***
- (264) “Probabilistic Risk Assessment for China”. To: Peking University, Beijing, China, June 10, 2014. ***Invited***
- (265) “Predicting among-species Sensitivities of Fish and Birds to Dioxin-like Chemicals”. To: Nanjing University, Nanjing, China, June 23, 2014. ***Invited***
- (266) “Brominated Flame Retardants in the Environment”. To: Nanjing University, Nanjing, China, June 24, 2014. ***Invited***
- (267) “Predicting the Toxicity of the over 250,000 Chemicals in Oil Sands Process Affected Water”. To: Nanjing University, Nanjing, China, June 25, 2014. ***Invited***,
- (268) “Ecological Exposure Assessment”. To: Nanjing University, Nanjing, China, June 26, 2014. ***Invited***
- (269) “Probabilistic Risk Assessment for China”. To: Nanjing University, Nanjing, China, June 27, 2014. ***Invited***
- (270) “The Oil Sands of Canada: An Environmental Issue”. To: Chinese Research Academy for Environmental Sciences (CRAES), Beijing, China, July 28, 2014. ***Invited***
- (271) “Brominated Flame Retardants in the Environment”. To: Nankai University, Tianjin China, June 29, 2014. ***Invited***
- (272) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: University of Guelph, Guelph, ON, Canada) September 16, 2014. *Miroslaw Romanowski Medal* (Royal Society of Canada) Lecture. ***Invited***
- (273) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: University of Ontario Institute of Technology, Oshawa, ON, Canada) September 17, 2014. *Miroslaw Romanowski Medal* (Royal Society of Canada) Lecture. ***Invited***
- (274) “Perspectives on Environmental Contaminants”. To: University of Ontario Institute of Technology, Oshawa, ON, Canada) September 17, 2014, ***Invited***.

- (275) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: Trinity Western University, Langley, BC, Canada. October 21, 2014. *Miroslaw Romanowski Medal* (Royal Society of Canada) Lecture. ***Invited***
- (276) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: Trinity Western University, Langley, BC, Canada. October 21, 2014. ***Invited***
- (277) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: Kwantlen Polytechnic University, Langley, BC, Canada. October 22, 2014. *Miroslaw Romanowski Medal* (Royal Society of Canada) Lecture. ***Invited***
- (278) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: Kwantlen Polytechnic University, Langley, BC, Canada. October 22, 2014. ***Invited***
- (279) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: University of Northern British Columbia, prince George BC, Canada. October 23, 2014. *Miroslaw Romanowski Medal* (Royal Society of Canada) Lecture. ***Invited***
- (280) “Toxicological Evaluation of Perfluorooctane (PFOSs) in the Environment: Anatomy of an Environmental Issue”. To: University of Windsor, Windsor, ON, Canada. November 4, 2014. *Miroslaw Romanowski Medal* (Royal Society of Canada) Lecture. ***Invited***
- (281) “Predicting among-species Sensitivities of Fish and Birds to Dioxin-like Chemicals”. To: Graduate School of Veterinary Medicine, Hokkaido University, Sapporo, Japan, September 25, 2014. ***Invited***
- (282) “Predicting the Toxicity of the over 250,000 Chemicals in Oil Sands Process Affected Water”. To: School of Earth and Environmental Sciences, Seoul National University, Seoul, Korea, October 29, 2014. ***Invited***
- (283) “Perfluorinated chemicals: The history of an environmental issue”. To: School of Public Health, Seoul National University, Seoul, Korea, September 30, 2014. ***Invited***
- (284) “Perspectives on Environmental Contaminants”. To: Geography Department, Trinity Western University, Langley, British Columbia, Canada, October 21, 2014, ***Invited***.
- (285) “Predicting the Toxic Potency of *Any* Dioxin-like Compound to *Any* Avian Species”. To: Great Lakes Institute for Environmental studies, University of Windsor, Windsor, ON, Canada, November 5, 2014. ***Invited***
- (286) “Pursuing the Chemical Culprits: What Organic Compounds are Responsible for Toxicity of Oil Sands Process-Affected Water? School of Biological Sciences, University of Hong Kong, Hong Kong, SAR, January 24, 2015. ***Invited***

- (287) "Pursuing the Chemical Culprits: What Organic Compounds are Responsible for Toxicity of Oil Sands Process-Affected Water?" Biology Department, Hong Kong Baptist University, Hong Kong, SAR, January 28, 2015. *Invited*
- (288) "Chemicals in Modern Society: The Janis Effect?". Hong Kong, Institute of Education, Hong Kong, SAR, China, February 5, 2015. *Invited*
- (289) "A Simple Chemist in the Complexity of the Oil Sands". International Water Day, Global Institute for Water Security, University of Saskatchewan, Saskatoon, SK, March 20, 2015
- (290) "Brominated Chemicals in the Environment". To: Research Center for Toxic Compounds in the Environment (RCETOX), Masaryk University, Brno, Czech Republic, April 28, 2015. *Invited*
- (291) "Pursuing the Chemical Culprits: What Organic Compounds are Responsible for Toxicity of Oil Sands Process-Affected Water?" To: RECETOX, Masaryk University, Brno, Czech Republic, April 29, 2015. *Invited*
- (292) "China in the Canadian Oil Sands". Nanjing University School of Environment, Nanjing, China, July 6, 2015.
- (293) "Predicting the Toxicity of the over 250,000 Chemicals in Oil Sands Process Affected Water". Beijing Forestry University, Beijing China, July 10, 2015.
- (294) "Predicting the Toxicity of the over 250,000 Chemicals in Oil Sands Process Affected Water". Beijing Normal University, July 11, 2015.
- (295) "China's Role in the Canadian Oil Sands". Nankai University, Tianjin, China, July 11, 2015.
- (296) "China's Role in the Canadian Oil Sands". University of Hong Kong, Public Lecture Series, Hong Kong, PRC, March 2, 2016.
- (297) "Untargeted Screening of Environmental Samples for Novel Chemicals". To: Nanjing University School of Environment, Nanjing, China, March 8, 2016.
- (298) "Pursuing the Chemical Culprits: What Organic Compounds are Responsible for Toxicity of Oil Sands Process-Affected Water?" To: Seoul National University. March 10, 2016.
- (299) "Canadian Oil Sands; What's the Big Deal?" To: Baylor University, Environmental Sciences program. April, 2016
- (300) "Perfluorinated Compounds in the Environment". To: Baylor University, Environmental Sciences program. April, 2016
- (301) "When Experiments Don't Come out as Planned". To: Baylor University, Environmental Sciences program. April, 2016

- (302) “China’s Role in the Canadian Oil Sands”. To: School of Life Sciences, Chinese University of Hong Kong. February 9, 2017, Hong Kong, SAR, China. ***Invited***
- (303) “Identification and Quantification of Novel Contaminants in Food, Water, Human Tissues and Environmental Matrices”. To: Environmental Health Program, University of Macau. March 3, 2017, Macau, SAR, China. ***Invited***
- (304) “Dialogue with Prof. Giesy”. To: School of Biological Sciences, University of Hong Kong, March 7, 2017. ***Invited***
- (305) “Environmental Forensics: What is it and how is it Practiced?”. To: University of Hong Kong, Public Lecture Series, Hong Kong, PRC, March 7, 2017. ***Invited***
- (306) “Canada’s Oil Sands, Winners and losers: Social, economic, political and Environmental Issues.” To: Environmental Science Program, University of Winnipeg, March 17, 2017. ***Invited***
- (307) “Perfluorinated Chemicals in the Environment”. To: Chemistry Department, University of Manitoba, March 18, 2017. ***Invited***
- (308) “Siloxane D5: The Science Court in Canada” To: Human Health and Risk Assessment Class, Department of Environmental Science, Baylor University, Waco, Texas, April 7, 2017. ***Invited***
- (309) “Brominated Flame Retardants Fate, effects of policies”. To: Toxicology Class, Department of Environmental Science, Baylor University, Waco, Texas, April 11 2017. ***Invited***
- (310) “Environmental Forensics: What is it and what can it do? To: Department of Environmental Science, Baylor University, Waco, Texas, April 11, 2017. ***Invited***
- (311) “Environmental Restoration of the Tittabawassee River, Michigan, USA”. To: Ecosystem Management Class, Department of Environmental Science, Baylor University, Waco, Texas, April 7, 2017. ***Invited***
- (312) “Environmental Restoration of the Tittabawassee River, Michigan, USA”. To: Ecosystem Management Class, Department of Environmental Science, Baylor University, Waco, Texas, April 19, 2017. ***Invited***
- (313) “Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment: Anatomy of an Environmental Issue”. To: School of Biological Sciences of the University of Hong Kong, Hong Kong, SAR, Peoples Republic of China, February 2, 2018. ***Invited***
- (314) “P, B, T, What is it and How is it Determined”. Department of Environmental Science, Baylor University, Waco, Texas, April 11, 2018.
- (315) “Probabilistic Risk Assessment”. To: ENV 5342 Environmental Risk Assessment, Department of Environmental Science, Baylor University, Waco, Texas, April 12, 2018.

- (316) “Siloxanes in the Environment and Development of the Science Court in Canada”. To Fundamentals of Toxicology. Baylor University, Waco, Texas, April 19, 2018.
- (317) “Stable Isotopes for Determining Trophic Status and Sources of Diets, Relative to Accumulation of Contaminants in the Environment. To: Ecology class Baylor University, Waco, Texas, April 19, 2018.
- (318) “A Toolbox for Aquatic Impact Assessment of Municipal Wastewater Effluents (AIME)” With M. Brinkmann, M. Hecker T. Bagatim, G. Codling, S. Hanson, N. Hogan, A. Hontela, P. Jones H. Peng H, B. Sarauer, K. Steeves, S. Wiseman and J.P. Giesy. To: 13th International Congress on the Biology of Fish of the Physiology Section of the American Fisheries Society. Calgary, Alberta, Canada, July 15-19, 2018.
- (319) “Environmental Forensics: What is it and what can it do?” To: e-Forum on Ecological Security and Health (eFESH)organized by Nanjing University, October 18, 2020.
- (320) “Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment: Anatomy of an Environmental Issue”. To: e-Forum on Ecological Security and Health (eFESH)organized by Nanjing University, November 9, 2020.
- (321) “Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment: Anatomy of an Environmental Issue”. To: Faculty of Engineering and Industry Sciences, Equinox University of Technology, Quito (UTE), Quito, Pichincha, Ecuador (*Universidad Tecnológica Equinoccial*)., Quito, Ecuador, November 23, 2020.
- (322) “Environmental Forensics: What is it and what can it do?” International Conference on Emerging Contaminants and Environmental Health. Minhang campus of Shanghai Jiaotong University, Shanghai, China, September 25, 2021. Invited, Keynote.

COURSES TAUGHT:

Alma College:

- * General Ecology: 1973
- * Environmental Science (Special Problems): 1973

University of South Carolina:

- * General Ecology: 1976
- * Man in the Environment: 1976

Michigan State University:

Undergraduate Courses:

- * Environmental Toxicology (NSC 410): 1981-1988.
- * Wildlife Biometry (FW 340): 1983-1984.
- * Great Lakes Biology and Management (FW 207): 1987-Present.
- * Environmental Studies (ICS 121) Guest Lecturer: 1992-Present.
- * Man in the Environment (FW 203) Guest Lecturer: 1989-Present.
- * Current Topics in Toxicology (ANS 417) Guest Lecturer: 1992-Present.
- * Ecosystem Assessment (FW 495), 1993-Present.
- * Environmental Issues and Public Policy (Zol 446): 2000-Present.
- * Introduction to Zoology (Zol 101): 2002

Graduate Courses:

- * Toxic Substances in the Great Lakes (FW 802): 1985.
- * Aquatic Toxicology (FW 831): 1983-1996.
- * Microcosms in Ecological Research (FW 801): 1982.
- * Environmental Chemodynamics (FW 814): 1988-1997.
- * Dynamics of Trace Substances in Aquatic Systems (FW 878): 1984-1997.
- * Pattern Recognition Techniques (FW 802): 1985.
- * Risk Assessment (ANS 890): 1995.
- * Aquatic Toxicology (Zol 868): 1999- Present.
- * Dynamics of Trace Substances in Aquatic Systems (Zol 878): 1997-
- * Environmental Chemodynamics (Zol 814): 1997-Present
- * Environmental Issues and Management (Zol 446): 1999-Present

University of Saskatchewan

- * Chemodynamics, TOX 483.3: 2007, 2009
- * Aquatic Toxicology, TOX 850.3: 2007, 2011, 2013, 2015, 2017
- * Aquatic Toxicology (undergraduate) TOX302.3, 2016
- * Introduction to Toxicology TOX200.3, 2013, 2014, 2015, 2016, 2017

Baylor Univeristy

- * ***Chemodynamics***, 2017, 2018
- * ***Aquatic Chemistry***, 2020
- * ***Chemical Investigation and Remediation***, 2019
- * ***Assessment and Ecological Risk Assessment of Chemical Contaminated Sites***. 2019, 2021
- * ***Aquatic Chemistry***, 2020; I taught half of the class and developed lectures and assignments for sediments, photolysis, fugacity, inorganic complexes, sorption, environmental fate modeling, organic chemicals in the aquatic environment:
- * ***Fundamentals of Toxicology***; 2019, 2020. I developed the lecture materials (left with the permanent instructor) for the following three lectures: "Environmental Forensics"; "Perfluorinated compounds in the Environment: Anatomy of an Environmental Issue" "Quantitative Predictive Toxicology: Relative Sensitivities of Birds to AhR Agonists"
- * ***Human Health Risk Assessment***: 2019, 2020
 - "Introduction to Ecological Risk Assessment"
 - "Electronic Waste and Health Risks"

Special Courses:

- * Spartan short course for the Michigan Sea Grant College Program, "Toxic Substances in the Great Lakes," January, 1985, East Lansing, Michigan.
- * Toxic Chemicals and the Environment: 1985, 3 cr., MSU Lifelong Education.
- * Michigan State University Lifelong Education Course, "Toxic Chemicals in the Environment," 1985.
- * Consortium for International Fisheries and Aquaculture Development (CIFAD). "Water Quality and Aquatic Ecology", 1986.
- * Safety of Food of Animal Origin". Summer Course Funded by PEW Foundation, annually 1991-1993.

International Courses:

- * "Predictive Testing and Environmental Biomonitoring". Universidad International Menendex Pelayo/Valencia, Spain, 1991.
- * "Sediment Toxicity and Bioassessment" Zoology Department, University of Coimbra, Portugal, April 1-2, 1993
- * "Tradition and Trends in Aquatic Toxicology: A Nordic Short Course, Supported by the Finish Academy of Science, Joensuu, Finland, May 5-May 19, 1994.
- * Short Course in Ecotoxicology: A Nordic Short Course, Supported by the Finish Academy of Science, University of Helsinki (held at Träverminne field station), July 21-25, 1995.

- * Short Course entitled “Ecological and Environmental Health Risk Assessment Principles, Methods and Application” Hong Kong Environmental Protection Department, Hong Kong, China, January 6-7, 1999.
- * Short Course entitled “Ecological Risk Assessment: Principles, Methods and Application. Canberra, Australia, May 8-11, 1999.
- * “Chemodynamics”, Dept. Biology and Chemistry, City University of Hong Kong, January-May, 2003
- * “Summer Short Course in Ecotoxicology”. Xiamen University, Xiamen China, July, 2008, July 2009, July 2010.
- * “Summer Short Course in Ecotoxicology”. City University of Hong Kong, Hong Kong, China, July 2010.
- * “Workshop on Recent Development in Ecotoxicology” at School of the Environment, Nanjing University, Nanjing China, June 21-25, 2011
- * “Summer Short Course in Ecotoxicology”. Xiamen University, Xiamen China, July 1-4, 2012.
- * “Workshop on Recent Development in Ecotoxicology” at School of the Environment, Nanjing University, Nanjing China, June 27-29, 2012.
- * “Human and Ecological Risk Assessments in a Changing Environment” at School of the Environment, Nanjing University, Nanjing China, March 3-5, 2013.
- * “Human and Ecological Risk Assessments in a Changing Environment” at School of the Environment, Peking University, Beijing China, July 6-7, 2014.
- * “Risk Assessment for China in the 21st Century at School of the Environment, Nanjing University, Nanjing China, June 23-25, 2014.

ACADEMIC COMMITTEES AND DUTIES:

Savannah River Ecology Laboratory

- * Radiation Safety Committee: 1974-1981.
- * Laboratory Safety Committee: 1974-1981.
- * Seminar Committee (Chairman): 1979.
- * National Research Park Committee: 1979-1980.

Michigan State University

- * Bio-safety Committee (recombinant DNA Research): 1994-
- * Management Committee, University containment facility: 1994-
- * University Hearing Board: 2003-2006
- * Steering Committee for Review of PhD. Program in Environmental Toxicology, 2002
- * Faculty Council, 2004-2006
- * Academic Council, 2005-2006
- * University Committee on Faculty Tenure (2006)
- * University Committee on Academic Governance (2006-2009)

Zoology

- * Ad Hoc Planning Committee: 1998
- * Chair, Search committee "Environmental Scientist": 1998-1999
- * Steering Committee for Review of PhD. Program in Environmental Toxicology
- * Graduate Committee: 1999-2002
- * Chair Graduate Committee, 2002

Fisheries and Wildlife

- * Faculty Secretary: 1980-1984.
- * *Ad hoc* Committee on Graduate Curriculum: 1981.
- * *Ad hoc* Committee on Recruitment (Chairman): 1982.
- * *Ad hoc* Committee on Departmental Review: 1982.
- * Undergraduate Curriculum: 1982-Present.
- * *Ad hoc* Committee on Fisheries and Wildlife Alumni Association (Chairman: 1982-1985).
- * Limnology Program Planning Committee: 1987.
- * Natural Resources Curriculum Committee: 1987-1992.
- * Graduate Committee: 1992-1997.

Pesticide Research Center

- * Safety Committee (Chairman): 1982-1987.
- * Research Committee (Chairman): 1984-1987.
- * *Ad hoc* External Review Committee (Chairman): 1984-1985.

Center for Environmental Toxicology

- * Functional Advisory Board: 1981-Present.
- * Undergraduate Curriculum Committee 1981-Present.
- * Graduate Curriculum committee: 1981-Present.
- * Postdoctoral Certification Committee: 1981-Present.
- * Food Toxicology Advisory Committee, FDA and USDA: 1984-1987.
- * "Dioxins in the Environment" Program Committee, 1983-1984.

Agricultural Experiment Station

- * Review Committee for Toxicology Research Support: annually, 1981-1986.

Ecology and Evolutionary Biology Faculty

- * Curriculum Committee, 1984-1993.

Michigan Public Health Policy Institute

- * Task Force for Formation. 1989-1993.

Environmental Sciences Program

- * Coordinating Committee. 1990-Present.
- * MSU Ambassador to Hong Kong. 2007-Present
- * MSU Ambassador to Saskatchewan. 2007-Present

University of Saskatchewan

Toxicology Centre

- * Chair of Aquatics Facility Management Committee. 2006-Present

Western College of veterinary Medicine

- * Research & Graduate Education – Strategic Planning

University Central Administration

- * Committee on Research Collaboration and Success, 2008-2011
- * Dean's Designate/Chair for Ph.D. Defense, Chemistry, 2008
- * Presidents Committee on Awards and Recognition, 2011-Present
- * Internal Review Committee for NSERC Discovery Grants, 2012-Present

- * Science Ambassador to China, 2014-Present
- * President's Natural Science and Engineering Research Council Committee, (PNSERC), 2016-Present

EDITORIAL AND REFEREE LIST:

Editorships:

- * Editor in Chief, ***J. Environmental Science Research***. Chinese Research Academy of Science, Beijing, China. 2015-Present.
- * Editor, ***Environmental Toxicology and Risk Assessment Section, Chemosphere***, Elsevier Publishers, Amsterdam, The Netherlands. 1999-2011.
- * Editorial Board. ***Ecosystem Health and Sustainability***. Published by Ecological Society of China. 2013-Present
- * Associate Editor, ***Ecotoxicology and Environmental Safety***, 2004-2011.
- * Associate Editor ***Environmental Development – The Transdisciplinary Journal of SCOPE*** 2011-2013
- * Associate Editor (***Ecotoxicology***, North American), ***Chemosphere*** Pergamon Press, Oxford, England. 1987-1999.
- * Associate Editor. ***International Association for Sediment-Water Science***. 1990-2000.
- * Associate Editor for Special Publications-Biology, ***Society of Environmental Toxicology and Chemistry***, Pergamon Press. 1988-1990.
- * Guest Editor: ***Proceedings of the National Academy of Science, USA***. 207-Present..
- * Guest Editor: ***Chlorinated Dioxins and Related Compounds***. Special issue of ***Chemosphere***. Vol. 24. 1992.
- * Guest Editor: ***Science-Based Decision Making to Reduce Risks from Persistent Organic Pollutants (POPs)***. 2005. ***Chemosphere***. Vol 60. 2005.
- * Guest Editor, ***Marine Pollution Bulletin***, Proceedings of 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, SAR, China.
- * Guest Editor, ***Reviews in Environmental Contamination & Toxicology***. Giesy, J.P. and Solomon, K.R. Volume 231, 2014.
- * Editorial Board: ***Environmental Research***: 2014-Present.
- * Editorial Board: ***International Society for Theoretical and Applied Limnology***: 1980-1983.

- * Editorial Panel **Office of Toxic Substances, U. S. Environmental Protection Agency**: 1980-2006.
- * Editorial Board *The Handbook of Environmental Chemistry* series. Springer - Verlag. 1987-Present.
- * Editorial Board *Reviews in Environmental Contamination & Toxicology*. 2007-2015.
- * Editorial Board: *Environmental Bioindicators*. , 2007-Present.
- * Editorial Board: *Environmental Reviews*. 2014-Present
- * Editorial Board: *Environmental Toxicology and Chemistry (Environmental Toxicology Section)*. 1988-1992.
- * *Environmental Science & Technology* Editor Search Committee, 2014
- * Editorial Board: *Environmental Toxicology and Pharmacology*. 2006-Present.
- * Editorial Board *Advances in Trace Substances Research*, Lewis Press. 1991-Present. "Metal Ecotoxicology: Concepts and Applications, 1991".
- * Editorial Board *Ecotoxicology*, Chapman & Hall, 1991-1994.
- * Editorial Board *Handbook of Ecotoxicology*, Lewis Publishers /CRC Press. 1992-Present.
- * Editorial Board: *European Journal of Pharmacology* (Elsevier; Environmental Toxicology and Pharmacology Section. 1991-2007.
- * Editorial Board: *Environmental Science and Pollution Research*. 1993-2006.
- * Editorial Board: *Geochemistry and Environmental Health*. 2006-Present
- * Editorial Board: *Toxicology Modeling*. 1994-1996
- * Advisory Board *The Handbook of Environmental Chemistry* series. Springer - Verlag. 2004-Present.
- * Editorial Advisory Board: *Toxicological and Environmental Chemistry*. Gordon and Breach/Scientific Publishers. London. 1989-2014.
- * Special Editor: *Water Science and Technology*. Proceedings Issue for ECOHAZARD 99

- * Special Editor. ***Geochemistry and Environmental Health***. Proceedings of the To: 3rd International Conference on Environmental Enhancement and Sustainable Development, Hohhot, Inner Mongolia, China, August 4-8, 2006. 2007
- * Grant Review Panel, **Office of Research and Development, U. S. Environmental Protection Agency, Exploratory Research-Biology**, 1980-2006.
- * **National Audubon Society**- Television Scripts and Companion Books. Reviewer

Referee: Editorial, Review of Manuscripts and Proposals and Academic Promotions:

- * ***Air Water and Soil Pollution***: Manuscripts, 1980.
- * ***Agency for Toxic Substances and Disease Registry***: Review of Interaction Profile Document for PCBs, PCDEs, PCDFs, DDT and Mercury, 2000.
- * ***Alberta New Faculty Grant Program***: Reviewer, 2005
- * ***Ambio***: Manuscripts, 1992.
- * **American Chemical Society**: Manuscripts, 1979-1981, annually 1983-1985.
- * **American Fisheries Society**: Manuscripts, 1977, 1980, 1982, 1985, 1986.
- * **American Institute of Biological Sciences**: Manuscripts, 1977, annually 1979-1982.
- * ***American Naturalist***: Manuscripts, 1984.
- * **American Society for Testing and Materials**. *Proposed Standard Guide for: use of Bioindicators in Field Studies*: 1988.
- * ***Analytical Chemistry***: Manuscripts, 2005, 2008, 2009 (2), 2010 (1)
- * ***Analytical and Bioanalytical Chemistry***: Manuscripts, 2007
- * ***Aquatic Toxicology and Hazard Assessment Vol. II***, ASTM. 1989.
- * ***Applied and Environmental Microbiology***: Manuscripts, 1977, 1979, 2013.
- * ***Aquatic Botany***: Manuscripts, 1976.
- * ***Aquatic Living Resources***: Manuscripts, 1990.
- * ***Aquatic Photochemistry***: Manuscripts, 1985.

- * ***Aquatic Conservation: Marine and Freshwater Ecosystems:*** Manuscript Review, 2001
- * ***Aquatic Toxicology:*** Manuscripts, 1986, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014 (2).
- * ***Archives of Environmental Contamination and Toxicology:*** Manuscripts, 1979, 1980, 1981, 1982, 1984, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2005, 2008, 2009, 2010, 2011, 2013.
- * ***Aquatic Sciences:*** Manuscripts, 2006
- * **Armenian-U.S. Bilateral Grants Program:**
 - 1) Review of Proposals, 2002
- * ***Atmospheric Deposition of Contaminants to the Great Lakes and Coastal Waters.*** J.E. Baker (Ed.) A special publication of the Society of Environmental Toxicology and Chemistry. ***Primary Reviewer.***
- * ***Baylor University***
 - (1) ***Department of Environmental Studies.*** Review for promotion and tenure, 2013
 - (2) ***Office of Vice President for Research.*** Review of internal research proposal, 2017
- * **Binational Agricultural Research and Development fund;** United States - Israel (BARD) Grant Proposals: 1985.
- * **Biological Availability of Trace Metals** - Symposium held at Battelle North West Laboratories: 1981.
- * ***CALFED Bay-Delta Programs Ecological Restoration Program:*** Grant proposals, 2002
- * ***California Sea Grant Program:*** Grant proposals, 1994
- * ***Canada Foundation for Infrastructure:*** Grant proposals, 2008, 2014, 2015
- * ***Can. J. Fish. and Aquat. Sci:*** Manuscripts, 1976, 1979, annually 1985-1987, 1990, 1992-1994, 1997.
- * ***Biomarkers:*** Manuscripts, 1999
- * **California Public Health Foundation San Francisco Bay Initiative:** Grant proposals, 1995

- * **Canadian National Sciences and Engineering Research Council:** Grant proposals 1991, annually 1992-1996.
- * **Canadian Association on Water Quality:** Grant proposals, 1996
- * **Canadian Institutes of Health Research (CIHR):** Programmatic Grants in Environments, Genes and Chronic Disease. The Programmatic Grants in EGCD addresses the etiology component of the Environments and Health Signature Initiative.
 - Member of the peer review committee, 2015
- * **Canadian Water Network:** Grant Proposals, 2004
- * ***Chemical Research in Toxicology:*** Manuscripts, 2015
- * ***Chemical Speciation and Bioavailability,*** Editorial Board: 1988-Present.
- * ***Chemical Toxicology:*** Manuscripts: 2016
- * **Chinese Academy of Sciences (CAS):** Review of candidates for the Outstanding Science and Technology Prize of the Chinese Academy of Sciences (CAS). 2007
- * **Chlorine Chemistry Council of the Chemical Manufacturer's Association:** Review of Research Project completion reports, 1999.
- * ***Contaminants in the Upper Mississippi River,*** J. G. Wiener (ed.): 1983.
- * ***Comp. Biochem. Physiol.:*** Manuscripts: 1996, 2001, 2002, 2003, 2004, 2005, 2007, 2008 (2), 2010 (1), 2012, 2013, 2014
- * **Connecticut Sea Grant Program:** Proposals: 1999
- * **Cottrell Research Corporation:** Document reviews, 1988.
- * **Critical Reviews in Toxicology:** Manuscripts, 1997
- * **CRC Press, Inc.** Boca Raton, FL. *Forecasting Toxicology Risk in Aquatic Ecosystems:* 1986.
- * **Czech Republic, Grant agency:** Review of Grants, 2002
- * **Department of Energy:** Grant proposals, 1974-1981, annually 1983-1985.
- * **Duke University,** Durham North Carolina, Faculty Tenure Review, 1999.
- * ***Ecology:*** Manuscripts, 1978, 1980, 1991.

- * ***Ecological Engineering***: Manuscripts, 2008
- * ***Ecotoxicology & Environmental Safety***: Manuscripts, 2004
- * **Electric Power Research Institute**: Grant proposals, 1978, annually 1980-1982.
- * ***Energy and Environmental Stress in Aquatic Systems***, J. H. Thorp and J. W. Gibbons (eds.): 1977.
- * ***Environment International***: Manuscripts, 2004
- * ***Environmental Bioassay Techniques and Their Application***, Kluwer Scientific, Dordrecht, Netherlands. 1989.
- * ***Environmental Biology of Fishes***: Manuscripts, 1979, 2003.
- * ***Environmental Chemistry and Cycling Processes***, D. C. Adriano and I. L. Brisbin (eds.): 1977.
- * ***Environmental Development***: A journal published by Elsevier for the Scientific Committee of Pollutants in the Environment (SCOPE), of the United Nations.
 - Founding Member of the Editorial Board
 - Associate Editor, 2011-Present
- * ***Environmental Geochemistry and Health***: Manuscripts, 1979, 1992-1993, 1995-1996, 2001, 2002, 2004, 2008, 2010, 2011, 2013
- * ***Environmental Health Perspectives***: (NIEHS) Manuscripts, 1997 (1), 2010 (1)
- * ***Environmental Monitoring & Assessment***: Manuscripts, 2010 (1)
- * ***Environmental Pollution***: Manuscripts, 1979, 1992-1993, 1995-1996, 2001, 2002, 2004, 2008.
- * ***Environmental Research***: Manuscripts, 1976, 2000 (2)
- * ***Environmental Science and Pollution Research***: Manuscripts, Annually, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2012, 2013, 2014
- * ***Environmental Science and Technology***: Manuscripts; 1984, 1985, 1987, 1988, 1989 (2), 1990, 1991 (3), 1992, 1993 (2), 1994, 1995 (2), 1996 (2), 1997 (30), 1998 (4), 1999 (4), 2000 (3), 2001 (5), 2002 (6), 2003 (11), 2004 (6), 2005 (6), 2006 (4), 2007 (6), 2008 (6), 2009 (7), 2010 (5), 2011 (3), 2012 (5), 2013 (3), 2014 (9), 2015(6), 2016(4), 2017 (1), 2018 (2), 2019 (1).

- * ***Environmental Toxicology and Chemistry***: Manuscripts, annually 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004 (10), 2005, 2006, 2007, 2008 (2), 2009 (2), 2010 (4), 2011 (2), 2012, 2013, 2015 (1).

Editorial Board; Environmental Toxicology Section: 1988-1992.

Special Publication Committee: 1988-1991.

- * ***Environmental Toxicology and Environmental Health***: Manuscripts, 2004
- * ***Environmental Toxicology and Pharmacology***: Editorial Board, 1996-2006
Manuscripts, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2009.
- * **Environment Canada**:

Review of Document entitled “Canadian Tissue Residue Guideline (TRG) for Polychlorinated Biphenyls (PCBs) for the Protection of Wildlife Consumers of Aquatic Biota”. 1998

Review of document entitled “Ecological Risk Assessment of Nonylphenol and its Ethoxylates in Canada”. 1999
- * ***Environment International***: Manuscripts, 2007
- * ***Food and Chemical Toxicology***: Manuscripts, 2009, 2016
- * ***Frontiers in Environmental Science and Engineering***. Manuscripts 2012
- * **Foundation of Research, Science and Technology of New Zealand**. Grant proposals, annually, 1992-present
- * ***Freshwater Biology***: Manuscripts, 1976.
- * ***Freshwater Wetlands and Wildlife***, R. R. Sharitz and J. W. Gibbons (eds.): 1987.
- * ***Functional Testing for Hazard Evaluation***, John Wiley: 1986.
- * ***Fundamental & Applied Toxicology***: Manuscripts, 1993
- * ***Geochimica and Cosmochemica Acta***: Manuscripts, 1986.
- * **Great Lakes Fishery Commission**, Technical Reports: 1990, 2004.
- * **Griffith University, Brisbane, Australia**: External Examiner, Ph.D. Dissertation, 2004
- * ***Handbook of Detergents***, 2001.

- * ***Handbook of Hazardous Materials*-Academic Press.**
- * ***Handbook of Ecotoxicology.*** D.J. Hoffman, B.A. Rattner, G. Allen Burton, Jr and J. Cairns, Jr (Eds.). Lewis Publishers, Inc, Boca Raton, FL. ***Primary Reviewer.***
- * ***Handbook of Ecotoxicology Second Edition.*** D.J. Hoffman, B.A. Rattner, G. Allen Burton, Jr and J. Cairns, Jr (Eds.) Lewis Publishers, Inc, Boca Raton, FL. ***Primary Reviewer. 2002***
- * **Health Council of the Netherlands:**

Reviewer of Ecologically Based Recommended Exposure Limits for PCBs in Soils and Sediment, 2004
- * **Hong Kong Baptist University**
 - 1) External reviewer for faculty promotion, 2009, 2012
 - 2) Chair External Advisory Committee Food Safety Institute, 2013
 - 3) External reviewer for promotion and tenure package, 2014
- * **Hong Kong University, Faculty of Science**

External Reviewer, MS thesis, 2008
- * **Hudson River Research Foundation:** Grant proposals: 1985, 1994-1997.
- * ***Human and Ecological Risk Assessment:*** Manuscripts, 2005, 2006 (2)

Reviewer of papers for the special issue entitled “Endocrine Disruptors”, 2000.
- * ***Hydrobiologica:*** Manuscripts, 2000
- * **Idaho State Department of Education.** Grant proposals: 1993.
- * **Indiana - Illinois Sea Grant Program:** Grant proposals - 1987.
- * **Indiana University:** External evaluation for promotion and tenure, 2012
- * ***Influence of Aquatic Humic Substances on Fate and Treatment of Pollutants,*** ACS Symposium: 1987.
- * ***Informa Healthcare (Expert Opinions in Healthcare):*** Manuscripts 2008,

- * **Institute of Water Research, Department of Interior**, Annual Allotment Grant proposals: 1984.
- * ***Integrated Environmental Monitoring and Assessment***: Manuscripts, 2009
- * **International Water Association:**
 - (1) Peer Reviewer of Materials for the 2002 IWA Third World Congress and Journals.
 - (2) Peer Reviewer of Materials for the 2002 IWA Third World Congress and Journals. IWA World Water Congress & Exhibition, September 2006, Beijing, PRC
- * **International Joint Commission** - Review of *Manual for Assessing Areas of Concern*: 1985.
- * ***International Journal of Environmental Health Research***: Manuscripts, 2005
- * ***International Symposium on the Fate and Effects of Toxic Chemicals in Large Rivers and Their Estuaries***, Quebec City, Canada, October, 1988.
- * ***Journal of Chromatography***: Manuscripts, 2005
- * ***Journal of Environmental Quality***: Manuscripts, 1995, 2002, 2003
- * ***Journal of Environmental Science***: Manuscripts, 2014
- * ***Journal of Environmental Science and Health***: Manuscripts, 1990.
- * ***Journal of Environmental Technology and Management (IJETM)***: Manuscripts, 2016
- * ***Journal of Environmental Engineering and Science***: Manuscripts, 2003, 2009
- * ***Journal of Experimental Marine Biology***: Manuscripts, 2002
- * ***Journal of Great Lakes Research***: Manuscripts: 1992, 1995, 1996, 1997, 2000, 2001.
- * ***Journal of Hazardous Materials***: Manuscripts: 2012
- * ***Journal of Shellfish Research***: Manuscripts, 2003
- * ***Journal of Toxicology and Environmental Health***: Manuscripts, 1996, 2004
- * **Lakehead University**, Thunderbay, Ontario, Canada: External Examiner, Ph.D. defence, 2015

- * ***Limnology and Oceanography***: Manuscripts, 1978, 2016
- * ***Lakes and Rivers***: Editor of Special issue of proceedings of symposium entitled “**Toward Sustainable Management of Lake-Watershed Ecosystems**”. **Hikone, Japan, July 2001.**
- * ***McGill University, Office of Graduate Studies***: Outside reviewer of dissertation, 2007.
- * ***McMaster University***: Promotion and tenure review, 2010.
- * ***Marine Chemistry***: Manuscripts, 1988.
- * ***Marine Environmental Research***: Manuscripts, 1989, 1994.
- * ***Memorie dell' Istituto Italiano di Idrobiologia***: Manuscripts, 1993
- * ***Marine Pollution Bulletin***: Manuscripts, 2003
- 1) Special Editor of issue including Papers from the Marine Pollution Symposium, 2004
- 2) Special Editor of issue including Papers from the Marine Pollution Symposium, 2007
- * **Michigan State University**
 - Office of Vice President for Research: Grant proposals, All University Research Grants: annually 1981-1998.
 - Office of Vice President for Research: Incubator Research Grant Program, 1999
- * **Microscale Aquatic Toxicology-Advances, Techniques and Practice** P.G. Wells, K. Lee and C. Blaise (eds.): 1996
- * ***Mineral Cycling in Southeastern Ecosystems***, F. G. Howell, J. B. Gentry and M.H. Smith (eds.): 1974.
- * **Minnesota Sea Grant College Program**: Grant proposals, 1995
- * **MONTs; Montanans on a new Trace for Science, University of Montana**: Grant proposals, 1988.
- * **MSU/Center for Environmental Toxicology/U. S. Department of Agriculture**: Grant proposals, Dioxins in the Great Lakes Food Chain, 1984.

- * **National Aeronautics and Space Administration:** Grant proposals, annually 1980-1982.
- * **National Environmental Research Council (NERC) of the Unaided Kingdom:** Grant Proposals, 2003
- * **National Institutes of Environmental Health, Environmental Toxicology Program,:** Manuscript review, 2003
- * **National Oceanic and Atmospheric Administration;** National Sea Grant Program: Grant proposals, annually 1980-1983, 1989.
- * **National Research Council, National Academy of Science, USA**
A Framework to Guide Selection of Chemical, 2014
- * **National Science Foundation:** Grant proposals, 1976, annually, 1978-1984, 1986-1988, 1991-1996, 2000, 2003
- * **National Sciences and Engineering Research Council of Canada (NSERC).**
Discovery Grant proposals, Discovery, Annually, 1990-1996, 1998, 2001, 2002, 2003, 2005, 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015
- * **National Sciences and Engineering Research Council of Canada (NSERC).**
National review panel Section 1502 Discovery Grants, strategic grants, (2011-2014, 2015, 2017, 2018)
- * **National review panel Section 1504 Discovery Grants, strategic grants, (2018)**
- * **National Toxicology Program, National Institutes of Health-**
Reviewer of technical reports on the toxicology of:
 - (1) 3,3',4,4'-Tetrachloroazoxybenzene (1998)
 - (2) 3,3',4,4'-Tetrachloroazobenzene (1998)
- * **National Undersea Research Center, University of Connecticut-** Grant Proposals, 1984
- * **Natural Environmental Research Council, United Kingdom:** Grant proposals, 2000, 2001, 2002, 2005
- * ***Nature:*** Manuscripts, 1980.
- * **Netherlands Health Council, 2002**
 - (1) Review of method for the development of environmental risk limits for PCBs in the environment

- * **New York Sea Grant Institute:** Grant proposals, 1988, 1989, 1991
- * **New Zealand Foundation for Research Technology:** Grant proposals, Annually, 1992-1996.
 - Antarctic Institute: Grant proposals, 1997
 - Public Good Science Fund, Environmental Grant proposals, 1998
- * **Netherlands Life Science Foundation:** Grant proposals, 1997, 1998
- * **Netherlands Institute of Public Health and Environment (RIVM), Bilthoven**
 - (1) Review of the document entitled “Recommended Exposure Limits for Polychlorinated Biphenyls in Soils and Sediments, for the Protection of Ecosystems”, 2003
- * ***Oecologia*:** Manuscripts, 1979.
- * **Ohio Board of Regents**
 - (1) Reviewer of proposals for the Eminent Scholar Program at Ohio Universities, 2000.
- * **Oregon Sea Grant Program:** Grant proposals, 1997
- * **Organization of Economic Cooperation and Development:**
 - (1) Review of UK Risk Reduction Strategy and Advantages and Drawbacks for Perfluorinated Sulfonate (PFOS), 2003
- * ***Pesticide Biochemistry and Physiology*:** Manuscripts, 1991.
- * ***Phycologia*:** Manuscripts, annually 1975-1978.
- * ***PLOS-Computational Biology*:** Manuscripts 2007
- * ***Polar Biology*:** Manuscripts, 1998.
- * ***Proceedings of the National Academy of Science-USA*:** Guest Editor: 2007, 2009 (3), 2010 (2), 2011, 2012 (2), 2013, 2014, 2015
- * ***Quantitative Ecology: A Hierarchical Approach*, Lewis Publishers, 1994**
- * ***Quantitative Methods in Aquatic Toxicology*, Lewis Publishers, 1995**
- * **Research Grants Council of Hong Kong:** Research Proposals, 2004, 2005, 2006
- * **Rutgers University, Dept. Environmental Sciences, Cook College,** Reviewer for faculty promotion and tenure, 1998

- * ***SAR and QSAR in Environmental Research***: Manuscripts, 1993.
- * ***Science***: Manuscripts, 1979, 1981-1983.
- * ***Science of the Total Environment***: Manuscripts, 1989, 1990, 1994, 1996, 1998, 2012, 2013, 2018 (2).
- * ***Screening and Testing Chemicals in Commerce***: Background papers for Office of Technology Assessment, US Congress, 1994
- * ***Sediment/Water Interactions-V***. Developments in Hydrobiology Series. Kluwer Academic Publishers. 1992.
- * ***Separation Science***: Manuscripts, 2006
- * **Sea Grant Program (National; NOAA): .**
 - 1) Review of Proposals, 1992
 - 2) Program Review, Chesapeake Bay Toxics Program, 1993.
- * **SETAC Press, Pensacola, FL:**
 - 1) Review of Book Chapter, 2004
 - 2) Review of Endocrine Disruptor Book, 2005
- * **Simon Fraser University, Burnaby, British Columbia, Canada**
 - 1) Promotion and tenure review
- * **Springer Publishers, New York, NY:**
 - 1) Review of “Trace Elements in Terrestrial Environments:, Biochemistry, Bioavailability, and Risks of Metals”, 2000.
- * **State Key Laboratory in Marine Pollution (SKLMP) in Hong Kong**
 - 1) Academic Committee 2010-2013
 - 2) International Advisory Committee 2014-2017
 - 3) Session Chair Annual meeting 2014
 - 4) Reviewer Proposals, 2016
- * **State University of New York-Albany**
 - 1) External reviewer, Ph.D. student committee, 2003
- * **Swedish National Museum of Natural History, Stockholm, Sweden**

- 1) Review of Research Division, 2002.
 - 2) Review of candidates for the position of Chair in Environmental Toxicology. 2007.
- * **Swiss National Scientific Research Organization:** Grant proposals, 1992.

Review of proposals for program in “Endocrine Disruptors: Relevance to Humans, Animals and Ecosystems”. 2001, 2002, 2003
 - * **Talanta** Reviewer of Manuscripts: 2003
 - * **Technical University Berlin, Faculty of Science**

External Reviewer for Filling of Faculty positions, 2008
 - * **Telaviv University, George S. Wise Faculty of Life Sciences:**

External examiner, promotion and tenure, 1998
 - * **Texas Tech University:** Promotion and Tenure Reviews, 2002, 2003
 - * ***The Auk*:** Manuscripts; 2003
 - * **The Universities Council on Water Resources, Inc:** Grant proposals, 1985, 1990, 1991.
 - * ***The Analyst*,** Manuscripts: 2003
 - * ***Toxic Substances and Aquatic Ecosystem Health*,** M. S. Evans (ed.). In John Wiley Advances in Environmental Science and Technology: 1985.
 - * **Trout Unlimited: Grant proposals,** 1987.
 - * **Universal Energy Systems; Department of Defense:** Grant proposals, 1985.
 - * **U. S. Fish and Wildlife Service - Columbia Laboratory:** Grant proposals, 1984.
 - * ***Toxic and Hazardous Substance Control:*** Manuscripts, 1990.
 - * ***Toxicology and Applied Pharmacology:*** Manuscripts, 1985, 2009, 2014.
 - * ***Toxicological and Environmental Chemistry:*** Manuscripts, 1987, 1998, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 (3), 2008 (2), 2009 (2), 2010 (4), 2011 (3), 2012 (4), 2013(3), 2014
 - * ***Toxicology Letters:*** Manuscript Review, 2004, 2016 (2)

- * ***Toxicological Sciences***: Manuscripts, 1999-2000, 2003, 2004, 2005 (2), 2006 (3), 2007 (4), 2008 (2), 2010, 2011(1), 2013 (1), 2014 (1)
- * **US Civilian Research and Development Foundation**: Grant Proposals, 2003
- * **US Dept. Agriculture**: Proposals
 - (1) Water Resources Assessment and Protection Program: Grant proposals, 1996, 1997, 1998, 1999
 - (2) Ecosystem Science Program, 1999
 - (3) Watershed Processes and Water, 2000
 - (4) Small Business Innovation program, 2000
 - (5) Soils and Soil Biology Program, 2001
- * **US Environmental Protection Agency**: Reviewer, 2000
 - (1) “Acute to Chronic No-Observable-Effect Concentration Software (ACE) for the Windows Environment”
- * **US Environmental Protection Agency**:
 - (1) Grant proposals, annually 1975-1988.
 - (2) Promotion of Research Scientist, 1998, 2002, 2012, 2015
 - (3) National Center for Environmental Research (NCER) research grants and Small Business Innovation Research (SBIR) contracts and Fellowship pre-applications. Reviewer 2005.
- * **United States-Israel Binational Science Foundation**: Grant proposals, 2001.
- * **University of Aachen, Germany**: External Examiner for Promotion, Biology Department, 2008
- * **University of Albany, SUNY**: Review of Faculty for promotion: 1994
- * **University of Agriculture of Malaysia**: External Assessor. 1990-1993.
- * **University of California - Davis, Ecotoxicology Program**: External Review Panel. 1994.
- * **University of California - Riverside Environmental Sciences Program**: External Reviewer for faculty search committee

- * **University of California -Santa Cruz:** External reviewer for promotion and tenure, 1997
- * **University of Guelph:** External examiner for Ph.D. Dissertation, 1998
- * **University of Helsinki:** External Examiner, Ph.D. Dissertation, 2004
- * **University of Lagos, Nigeria:** Review of faculty member credentials for promotion and tenure, 2015
- * **University of Lethbridge, Faculty of Arts and Sciences.** Review of faculty member credentials for promotion and tenure, 2014
- * **University of Michigan-Ann Arbor:** External Examiner, Executive Positions, 2008
- * **University of Toledo Internal Grants Program:** Grant proposals, 1989.
- * **University of Toronto:**
 - (1) Promotion and Tenure review, 2004
 - (2) Dissertation External Reader, 2008
- * **University of Wageningen, Graduate School of Environmental Chemistry and Toxicology,** Wageningen, The Netherlands. Program review, 1999
- * **University of Waterloo,** Waterloo Ontario: Promotion & Tenure Review, 1999
- * **University of the West Indies,** Faculty Promotion and Tenure Review, 2008
- * **United States Conference of Mayors:**
 - (1) Review of document on dioxins in soils due to use of urban bio-solids as a soil amendment, 1998.
- * ***Water Air and Soil Pollution:*** Manuscripts, 1996
- * ***Water Quality Research Journal of Canada:*** Manuscripts, 2000
- * ***Water Research:*** Manuscripts, 1976, 1979, 2000.
- * ***Water Science and Technology:*** Manuscripts, 2003
- * ***Institut für Umweltforschung der Rheinisch-Westfälischen Technischen Hochschule Aachen,*** Review of credentials for promotion and tenure, 2014

* *William and Mary University, Institute of Marine Science, Department of Fisheries Science*, Review of Credentials for promotion and tenure, 1998.

ADDITIONAL PROFESSIONAL ACTIVITIES:

- * Oak Ridge Associated Universities Traveling Lecture Program, 1974-1980.
- * Symposium Chairman; "Microcosms in Ecological Research," November 8-10, 1978.
- * Section Coordinator; Review of "Quality Criteria for Water-EPA," for American Fisheries Society, 1978.
- * Session Chairman, "Energy and Environmental Stress in Aquatic Systems: Modeling Stresses and Heavy Metal Stresses," 1978.
- * Instructor - Oak Ridge Associated Universities, "Heavy Metals in the Environment," 1978.
- * Session Chairman, "Environmental Chemistry and Cycling Processes: Elemental Cycling in Aquatic Ecosystems," 1976.
- * Session Chairman, "Thermal Ecology Symposium," April 2-5, 1975, Augusta, Georgia.
- * Great Lakes Fish Commission, Board of Technical Experts Advisory Panel on Fish Habitat - Toxic Substances. 1982-1985.
- * Scientific support coordination for oil and hazardous materials spills; NOAA, 1983-Present.
- * Great Lakes Regional Seminar Committee for International Joint Commission: 1983-Present.
- * Michigan Environmental Science Board. Advisor to Governor's office on environmental policy issues
- * Michigan Governor's Conference on Toxic Substances in the Great Lakes Region, 1983-1984.
 - Program Committee.
 - Organizing Committee.
- * Michigan State Needs for National Acid Deposition Program: 1983.
 - One of two representatives from Michigan to the national program.
- * Scientist's Institute for Public Information, Media Resource Service. Makes scientific information available to journalists. 1983-Present.
- * Instructor. Great Lakes Waters, Short Course for College Teachers: Michigan State University Continuing Education Program, December 4-6, 1983.
- * Dioxins in the Environment Workshop: Michigan State University, Center for Environmental Toxicology, December 6-7, 1983, East Lansing.
- * Delegate, participant in subsection on fate and Distribution of Dioxins in the Environment.

- * NIH; Special Study Section, Natural products chemistry, July 1984.
- * External Reviewer, Monsanto Company, Research program in "Biochemical Indicators of Stress in Aquatic Organisms," November 16, 1984, St. Louis.
- * Freshwater Society National Environmental Health Network. Bush Foundation - Resource Person, 1984-Present.
- * Michigan Critical Materials Register Advisory Committee, 1985-Present.
- * Michigan Sea Grant College Program, Visiting Lecturer, Program - Toxic Substances in the Great Lakes, 1985-86.
- * U.S. Environmental Protection Agency Expert Resources Inventory System (ERIS). Identifies expert consultants and expert witnesses for hazardous waste enforcement cases, 1984-Present.
- * International Joint Commission.
- * "Areas of Concern." Presentation to Commission on Bioassay Techniques. November 4, 1985, Detroit, Michigan.
- * Objectives Evaluation Subcommittee of Programs Committee: Water Quality Board. 1988-1993.
- * National Sea Grant Program, National Oceanic and Atmospheric Administration, U.S. Department of Commerce. Site Review of Illinois/Indiana Program, January 26-28, 1987, Illinois.
- * University of Windsor, Great Lakes Institute.
- * National Oceanic and Atmospheric Administration, U. S. Department of Commerce. Steering Committee for Toxic Substances Research. October 22, 1986, Madison, Wisconsin.
- * Fulbright Central Selection Committee, Bonn, West Germany, October 14-16, 1987.
- * Ecological Information Network. Ecological Society of America program to provide expertise to United States Congress and other Groups. 1988-Present.
- * U.S. Soviet Science exchange program. Host of visit of delegation from Scientific Secretary of the All Union Scientific Research Institute. November 1988, East Lansing, Michigan.
- * Conference/Workshop on the Status of Knowledge, Critical Research Needs, Legislation and Development of Appropriate Technology for the Michigan Groundwater Quality Challenge, November. 10-11, 1988, East Lansing, Michigan.
- * Indiana Academy of Science, Nov. 1988, Notre Dame, Indiana.
- * "The Sediment Solution: Cleaning up Contaminated Sediment on our Great Lakes and North American Coasts". A binational conference by and for Researchers, Managers and Citizens

sponsored by the Great Lakes United, the Lake Michigan Federation, US Environmental Protection Agency and Environment Canada. November 30-December. 3, 1988, Merrillville, Indiana.

- * Michigan Act. 228 Site Review Board. Appointed by governor to serve on nine-member panel to review applications for permits to locate facilities for the treatment, storage, or disposal of hazardous waste. 1989-1990.
- * Toxicity/Chemistry Work Group of Assessment and Remediation of Contaminated Sediments Program established under section 118C of the Water Quality Act of 1987 to organize and oversee a five year demonstration program for the removal of toxic substances from the bottom sediments of the Great Lakes. US Environmental Protection Agency Great Lakes National Program Office. 1988-Present
- * International Joint Commission/Council of Great Lakes Research Managers. Workshop on Cause-Effect Linkages, March 28-19, 1989, Chicago, Illinois.
- * Great Lakes Contaminants Information Exchange Program. 1989-.
- * Objectives Evaluation Subcommittee of the Great Lakes Water Quality Board. The purpose of this committee is to develop criteria and methods for evaluating the impact of contaminants in the Great Lakes and to monitor progress of the US and Canadian Governments. 1989-1993.
- * Michigan Public Health Policy Institute. 1989-Present.
- * Cooperative Institute for Limnology and Ecosystems Research: Fellow, 1989-Present.
- * International Symposium on Aquatic Ecosystem Health, Waterloo, Ontario, Canada, July 23-26, 1990. Organizing Committee.
- * Michigan Earth Day – Lansing, Michigan *Invited* speaker at teach in "Trends in contaminants in the Great Lakes". April, 1990.
- * Clemson University Institute of Wildlife and Environmental Toxicology. External Advisory Board. 1990-Present. Chairperson, 1992-1993, 1996-1999.
- * Chairperson, External Review Panel. University of California - Davis Ecotoxicology Program - 1993.
- * International Joint Commission. Round Table on Contaminant-Caused Reproductive Problems in Salmonids. Windsor, Ontario, September, 1990. *Invited Delegate*.
- * Michigan Council on Environmental Quality, Science Advisory Board. 1990-Present.
- * Canadian National Water Research Institute, Canadian Center for Inland Waters, Burlington, Ontario. "A Proposed Strategy for the Department of Biological Sediment Criteria". *Invited Delegate*. January 22-24, 1991.

- * US-EPA. Sediment Quality Criteria Workgroup. 1992-Present.
- * Testimony before staff of US House of Representatives. Discussion of control of estrogenic compounds in the environment. March 10, 1994, Washington, D.C.
- * Estrogenic compounds in the Environment. A workshop sponsored by the Chemical Manufacturer's Association. May, 1994, Washington, D.C. *Invited Delegate*
- * Program Reviewer, Tel Aviv University, 1994
- * Program Reviewer, Ecotoxicology Program, University of California at Davis, 1994
- * US EPA Environmental Research Laboratory-Cincinnati, OH. Program Reviewer, Biomarkers **Chairperson**
- * **US Dept. Agriculture, Water Resources Assessment and Protection Program.** Reviewer grant proposals. Annually, 1991-1998
- * Saginaw Bay National Watershed Initiative, Bioconcentrated Chemicals in the Environment, Technical Steering Committee. 1994-1997.
- * Research Institute of Toxicology (RITOX), University of Utrecht, The Netherlands: Expert Advisory Panel (*Chairperson*). 1994
- * External examiner for Drs. A.T.C. Bosvelt, Research Institute of Toxicology (RITOX), University of Utrecht, The Netherlands. 1995.
- * National Academy of Science/ National Research Council: Committee on Hormone-Related Toxicants in the Environment. 1995-1997.
- * External Reviewer for Pim Leonards Ph.D. Dissertation Committee, Department of Biology, Free University of Amsterdam. 1997.
- * External reviewer of dissertation project proposal, WIMEK Institute, Wageningen, The Netherlands. 1998
- * External reviewer for promotion and tenure. Telaviv University, Telaviv, Israel. 1998
- * Opponent for Dissertation Defense of Helena Olsman, University of Örebro November 25, 2005, Örebro Sweden.
- * Organizing committee for the 4th International Symposium on Persistent Substances. November 18-21, 2007, Beijing, China. Chinese National Science Foundation.
- * Organizing committee for the 12th International Beijing Conference and Exhibition on Instrumental Analyses, October 18-21, 2007, Beijing China.
- * Organizing committee for the Ecosummit-Beijing on Ecological Risk Assessment and Management of Persistent Toxic and Hazardous Pollutants. May 22-27, 2007, Beijing China.

- * Interview, Canadian Broadcasting Radio. Topic: Endocrine Disruptors and fish. August 4, 2010.
- * External Reviewer for Promotion of Personnel, US Environmental Protection Agency, 2011
- * External Reviewer for Promotion and Tenure, Baylor, University, Waco, Texas, USA
- * External Reviewer for Promotion of Personnel, US Environmental Protection Agency, 2012

COMMUNITY SERVICE ACTIVITIES:

*** Alma College:**

- (1) Career Consultant: 1982-1994.
- (2) Arlan L. Edgar Endowment Fund Committee: 1986-1989.
- (3) Alumni Board of Directors: 1988-1993.
 - President-Elect: 1994-1995
 - President: 1995-1996
- (4) Board of Directors: 1993-1998

*** Boy Scouts of America.**

- Eagle Scout, 1963.
- Alpha Phi Omega Fraternity, 1967-1970.
- Merit Badge Counselor: 1983-Present.
 - Bird Study
 - Chemistry
 - Fish and Wildlife Management
 - Nature
 - Environmental Science

*** Ducks Unlimited**

- Red Cedar Chapter, East Lansing, MI, 1982-Present.
- Annual Banquet Committee.
- Chairperson of Speaker Committee
- Sponsor: 1998, 1999, 2000, 2001, 2002, 2003

*** Williamston, Michigan Community Schools**

- Science Day, March, 1990.
- Band Parents, 1989-1998

*** Williamston Township**

- Strategic Planning Committee for Development Plan. 1990-1991.

PATENTS

Steroidogenesis Modified H295R Cells and Methods for Screening for Endocrine Disrupting Chemicals (US 08299238).

FINANCIAL SUPPORT:

(All values are in US dollars at the time of the award and not corrected for inflation)

Education

Laboratory assistant - Alma College - 1967-1970

National Science Foundation Undergraduate Research Fellow - University of Michigan - 1969

Graduate Research Assistant - Michigan State University (Limnology) - 1970 - 1974

North Central Research Grant, Michigan State Agricultural Station - 1972-1974

Research

U.S. EPA, "Fate of cadmium introduced into artificial stream systems". 1975-1976, \$250,000

U.S. EPA, "Cycling of trace contaminants from coal combustion in aquatic ecosystems". 1976-1977, \$ 240,000

U.S. EPA, "Kinetics of Cadmium and Zinc Accumulation and Elimination by Freshwater Crayfish". 1977-1978, \$ 104,000

NSF-RANN, "Microcosms in Environmental Research". 1978-1979, \$6,000

U.S. EPA, "Microcosms in Environmental Research". 1978-1979, \$5,000

National Environmental Research Park (DOE), "Microcosms in Environmental Research". 1978-1979, \$4,500

Electric Power Research Institute, "Microcosms in Environmental Research". 1978-1979, \$4,500

Institute of Ecology, University of Georgia, "Microcosms in Environmental Research". \$1,500

Environmental Protection Agency, "Fates and Biological Effects of Polycyclic AromaticHydrocarbons in Aquatic Systems". 1978-1981, \$1,130,000

Michigan Agricultural Experiment Station "Evaluation of Phosphoadenylate Concentrations and the Adenylate Energy Charge as a General Integrative Measure of Stress in Fish". 1981-1982, \$65,000

NOAA Sea Grant Program, "Lysosomal Enzyme Release Assay (LERA) as a Measure of Stress in Fish". 1982-1985, \$111,000

U.S. Department of Interior Office of Water Resources Technology, "Metal Speciation in Surface Waters of the Great Lakes Region". 1982, \$24,000

Michigan State University Vice President for Research Atomic Absorption Spectrometry Equipment Grant. 1982, \$52,000

Michigan State Agriculture Experiment Station Toxicology Research Program "Light Induced Toxicity of Polycyclic Aromatic Hydrocarbons". 1982-1985, \$72,950

Michigan State Agricultural Experiment Station Toxicology Research Program "Relationship between Residue Concentrations in Chinook Salmon Eggs and Rearing Temperature on Rearing Mortality". 1982, \$16,119

NOAA-Office of Marine Pollution Assessment "Changes in the Free Amino Acid Pool of Benthic Invertebrates as a Sublethal Toxic Response to Pentachlorophenol." 1983-1984, \$50,464

NIH Biomedical Research Funds "Use of Scanning Electron Microscopy Energy Dispersive X-Ray Analysis and Image Processing as a Rapid Monitor of Lead Concentrations in Freshwater Molluscs". 1983, \$3,560

CIBA-Geigy Corporation, Agricultural Division. "Professional development award for environmental toxicology". 1984, \$25,000

U.S. Fish and Wildlife Service, Great Lakes Fisheries Laboratory. "Effects of Environmental Stress on the Early Life Stages of Lake Trout". 1984, \$12,657

Mideast Peace Fellowship Program for Egypt. "Potential for Decreased Fish Production in the Nile River System due to the Insecticide Dursban". 1984-1985, \$30,900

NOAA Sea Grant Program. "Phototoxicity of Polycyclic Aromatic Hydrocarbons to Lake Michigan Plankton". 1985-1986, \$54,000

U.S. Department of Interior Cooperative State Water Sources Research Program MSU Center for Environmental Toxicology. "Chronic Toxicity of TCDD and TCDF to Rainbow Trout: Effects on Viability of Eggs and Survivorship of Fry". 1985, \$24,500

U.S. EPA, "Toxicity of In-Place Pollutants on Benthic Invertebrates". 1985-1987, \$258,000

Michigan Agricultural Experiment Station "Effects of 2,3,7,8 Dibenzo-p-dioxin on Reproduction of Rainbow Trout". 1985-1986, \$47,000

U.S. EPA, "Equipment-Mass Spectrometer". 1986, \$98,000

Egyptian Cultural and Educational Bureau "Effects of Insecticides on Nile River Fishes". 1985-1986, \$5,000

U.S. Department of Agriculture "Effects of Vitamin A on Responses of Rainbow Trout to 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)". 1986-1987, \$28,000

Michigan Sea Grant College Program "Effects of Maternal Exposure of Rainbow Trout to 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) on Reproduction". 1987-1988, \$149,800

Michigan State University Center for Environmental Toxicology "Synthesis of 3H-labelled 2,3,7,8-TCDD". 1986, \$4,000

Michigan Toxic Substance Control Commission "Determination of 2,3,7,8-TCDD Equivalents in Environmental Samples". 1987-1988, \$54,000

U.S. Fish and Wildlife Service; "Use of rat hepatoma H-4-II-E cells as a screen for complex mixtures of polychlorinated hydrocarbons in environmental samples". 1987-1989, \$64,000

U.S. Army Corps of Engineers "Toxicity of Sediments and Water in Toledo, Ohio and Buffalo, New York Harbors". 1987, \$54,000

Michigan State University Center for Environmental Toxicology "Effects of Planar, Chlorinated Hydrocarbons on Salmonid Reproduction of Great Lakes Fishes". 1987, \$6,000

Michigan Sea Grant College Program "PCB Residues in Lake Michigan Chinook Salmon Collected From the Ludington Area: Variation Due to Size and Season". 1988, \$4,995

Ludington Michigan Area Charter Boat Association "PCB Residues in Lake Michigan Chinook Salmon Collected from the Ludington Area: Variations due to Size and Season". 1988, \$10,000

Michigan State University-All University Competitive Research Funds. "Development of flow cytometry methodologies for use in short-term algal toxicity tests". 1988, \$3,500

Pesticide Research Enhancement Program, MSU. "PCB concentrations in Great Lakes fishes- Human hazards". 1988-1989, \$58,000

U.S. EPA "Toxicity of sediments in Green Bay, WI". 1988-1989, \$40,875

"Verband der Chemische Industrie Deutschland". Development of Quantitative Structure Activity Models to Evaluate the Toxicity of Chemicals in Commerce". 1987-1988, \$11,627

U.S. Dept. Ag. Coop. State Res. Serv. Food and Agriculture National Needs Graduate Fellowship Water Sciences "Water Quality Improvement by Agricultural Systems Management". 1989-1992, \$144,000

Michigan Agricultural Experiment Station "Concentrations of Complex Mixtures of Polychlorinated Hydrocarbons in Great Lakes Fish and Their Potential Effects on Humans". 1988-1990, \$57,000

Michigan Agricultural Experiment Station "Equipment Grant". 1988, \$4,000

U.S. Fish and Wildlife Service "Sediment Toxicity of Selected Refuges". 1988-1990 \$18,000

U.S. EPA "Sediment Toxicity Assessment Protocol Development:Field Validation in the Grand Calumet River". 1988-1990, \$223,351

U.S. EPA "Organic Contaminants in Sediments of the Grand Calumet River, Indiana". 1988-1989, \$48,000,

U.S. EPA "Effects of Mixtures of Toxic Chemicals to Colonial, Fish-eating Water Birds of Green Bay Wisconsin". 1989, \$40,000

U.S. Army Corps of Engineers "Effects of Holding Times on Toxicity of Sediments to Invertebrates". 1989, \$36,145

U.S. EPA Exploratory Research Program. "Toxicity of Complex Mixtures of Polychlorinated Hydrocarbons to Great Lakes Salmonid Fishes". 1989-1990, \$250,450

Pesticide Research Center Research Enhancement Program. "Complex Mixtures of Polychlorinated Aromatic Hydrocarbons: In Vitro Bioassay in Fish, Bird and Human Cells in Culture. 1989-1990, \$40,000

U.S. EPA "Assessment and Remediation of Contaminated Sediments".Under Section 118 of the Clean Water Act. 1989, \$14,991

Michigan Audubon Society and McGregor Fund. "Biochemical Determination of Mixtures of Co-planar, Polychlorinated Hydrocarbon in Great Lakes, Fish-eating Colonial Waterbirds". 1989-1990, \$89,135

U.S. Fish and Wildlife Service. "Use of the H-4-II-E rat Hepatoma Cell/Environmental Extract Bioassay for Determination of 2,3,7,8-Tetrachlorodibenzo-p-dioxin equivalents in Environmental Samples". 1989-1990, \$22,500

U.S. EPA. "Toxicity of Sediments of the Trenton Channel, Michigan". 1989, \$10,875

U.S. Forest Service. "Trace Contaminants in and Their Effects on American Bald Eagles in Voyagers National Park". 1989-1990, \$32,000

U.S. Department of Agriculture. "Chlorinated dibenzo-dioxins and dibenzo furans in fillets of chinook salmon". 1989-1990, \$14,000

U.S. EPA Superfund (Roy F. Weston). "Toxicity of Clear Creek Sediments". 1989, \$28,130

U.S. EPA Superfund Roy F. Weston "Sediment Toxicity of the Saint Mary's River, Michigan". 1989, \$28,130

Consumers Power Company. "Effects of Hydroelectric Projects on Eagle Populations in Michigan". 1990, \$414,000

U.S. EPA Superfund. "Bioavailability of Lead to Swine fed Soil Contaminated With: Lead Sulfide". 1990, \$127,089

Michigan State University-Biotechnology Research Excellence Fund. "Development of Novel Cell Lines for Screening of Environmental Toxicants: *In vitro* Bioassay for Complex Mixtures of Polyhalogenated Aromatic Compounds". 1990, \$29,960

Miller Brewing Company. "Contaminants in Eagle Blood". 1990, \$3,000

Consumers Power Company. "Contaminants in Eagle Blood". 1990, \$29,000

USDA-Forest Service. "Satellite Telemetry of Adult Bald Eagles". 1990, \$35,000

US Army, Aberdeen Proving Grounds. "Satellite Telemetry of Adult Bald Eagles". 1990, \$75,000

Earthwatch Foundation. "Bald Eagle Population of Michigan". 1990, \$57,600

Michigan Dept. Military Affairs. "Bald Eagle Population of Michigan". 1990, \$18,000

Michigan Dept. Natural Resources Nongame Wildlife Program. "Contaminants in Eagle Blood". 1990, \$1,850

Minnesota Pollution Control Agency. "Contaminants in Eagle Blood". 1990, \$2,000

U.S. Fish and Wildlife Service. "Development of an Automated Carbon Chromatography System for the pre-analysis Separation of Non-ortho-substituted PCB Congeners". 1990, \$48,000

U.S. Fish and Wildlife Service. "Relationships Between Toxic Chemicals in Double-Crested Cormorant Eggs and Birth Defects". 1990-1991, \$54,000

U.S. EPA-ERL Duluth. "Method for Sediment Toxicity Assessment". 1990-1991, \$70,000

U.S. EPA Great Lakes National Program Office. "A Study of the Lower Saginaw River and Adjoining Saginaw Bay: PCBs and Trace Metals". 1990-1991, \$125,207

Michigan Great Lakes Protection Fund. "Methods for the Rapid, Sensitive, Inexpensive Screening of Environmental Samples for Planar, Halogenated Hydrocarbons". 1990-1991, \$115,128

Inland Steel Co. "Assessment of the Toxicity of Sediments in Indiana Harbor". 1990, \$45,000

General Electric Co. "Effects of Microbial Reductive Dechlorination of PCBs on Their Toxicity". 1991, \$202,275

U.S. EPA. "Systemic Availability of Lead to Young Swine from the Chronic Administration of Lead-Contaminated Substrates". 1991, \$91,431

Michigan Department of Natural Resources. "Toxicity of Great Lakes Fish to River Otter (*Lutra canadensis*)". 1991, \$72,885

Earthwatch Foundation. "Bald Eagle Population of Michigan". 1991, \$72,000

U.S. EPA, "Transfer of Selected Halogenated Organic Compounds from the Sediments of the Lower Saginaw River and Saginaw Bay to Fish and Fish Eating Water Birds". 1991-1992, \$160,000

Great Lakes Protection Fund. "Assessment of Genetic Diversity of and Contaminants in Bald Eagles of the Great Lakes Region". 1992, \$200,000

USDA. "Development of Novel Recombinant Human Cell Lines for Detection of Low Levels of Toxic Polyhalogenated Aromatic Compounds". 1991-1992, \$20,000

U.S. Department of Agriculture. Food and Agricultural Sciences National Needs Graduate Fellowships Program. "Water Science Fellowship Training Program". 1990-1993, \$192,000

U.S. Fish and Wildlife Service. "Effects of PCBs and Related Compounds in the Chicken as an Avian Model". 1991-92, 47,000

U.S. National Institutes of Environmental Health Safety. "Development of a Novel Cell Line for the Assessment of the Effects of Planar Chlorinated Hydrocarbons". 1991-1994, \$822,802

U.S. Forest Service Challenge Grant. "Bald Eagle Population Biology and Contaminants in Chippewa, Superior and Hiawatha National Forests". 1991, \$34,000

University of Wisconsin. "Concentrations of Contaminants in Birds". 1991-1992, \$60,000

U.S. Department of Agriculture "Contaminants in Bald Eagles and Eagle Population and Habitat Analysis". 1991, \$39,000

Michigan Food & Crop Bioprocessing Center Research Excellence Fund "Development and Utilization of Recombinant Cell Bioassay Systems for the Detection of Toxic Halogenated Aromatic Hydrocarbons". 1991-92, \$25,000

U.S. EPA ERL-Duluth. "Assessment of Effects of Planar Hydrocarbons in Birds of Saginaw Bay, Michigan". 1991-1992, \$70,000

U.S. EPA ERL-Duluth. "Sediment Quality Criteria". 1992, \$10,000

Consumers Power Co. "Assessment of Michigan Bald Eagle Populations". 1992, \$329,106

U.S. EPA. "A Pilot Study for Contaminant Uptake in Two Species of Albatross in the North Pacific Ocean". 1992, \$84,530

World Wildlife Fund. "Contaminants in Animals of the North Pacific". 1992, \$24,000

U.S. FWS. "Contaminants in Great Lakes Birds". 1992, \$37,000

U.S. DI. "Assessment of Productivity and Contaminant Exposure on Nesting Bald Eagles in Michigan". 1992, \$15,000

Michigan Great Lakes Protection Fund. "Analysis Methods and Biochemical Mechanisms of Chlorinated Aromatic Compounds in Biota of the Great Lakes". 1992-1993, \$144,904

Great Lakes Protection Fund. "Assessment of Genetic Diversity of Bald Eagles in Michigan". 1993, \$143,000

MSU Pesticide Research Center, Research Enhancement funds. "Fractionation and Evaluation Techniques for Ah-r-active compounds in the Environment". 1992-1993, \$17,700

U.S. Fish & Wildlife Service. "Use of the H4IIE Rat Hepatoma Cell/Environmental Extract Bioassay for determination of 2,3,7,8-tetrachlorodibenzo-p-dioxin equivalents in Environmental samples." 1992-1993, \$37,950

SERE Group. "Contaminants in Fish and Birds of the Great Lakes Region". 1993. \$20,774

US-EPA. "Methods of Fractionation and Identification of Planar Halogenated Hydrocarbons in Birds from Saginaw Bay, Michigan. 1992-1993, \$50,000

U.S. EPA. "Contaminant Uptake in Two Species of Albatross in the North Pacific Ocean". 1992-1994, \$753,483

USDA. "Development and Application of a Novel Bioassay System for Detection of Estrogen-like Compounds in Foods and Feedstuffs". 1993, \$20,000

US EPA. "Co-planar compounds in the tissues of birds from Saginaw Bay, Michigan". 1993-1994, \$70,000

Upjohn Co., Kalamazoo, MI. "Use of birds and Semi-Permeable Passive Samplers for monitoring". 1993, \$125,000

Upjohn Co., Kalamazoo, MI. "Equipment Grant" Gas Chromatograph. 1993, \$36,000

Michigan State University Vice President for Research. "Co-planar compounds in the tissues of birds from Saginaw Bay, Michigan". 1993-1994, \$9,000

U.S. Fish and Wildlife Service. "Contaminants in Eagle Blood". 1993-1994, \$9,000

U.S. Fish & Wildlife Service. "Birth Defects in Eagle from the Great Lakes Region". 1993-1994, \$27,000

Michigan Department of Natural Resources. "Evaluation of Toxicity of Sediments in the Lower Detroit River". 1993-1994, \$50,000

MSU Pesticide Research Center Research Enhancement Award. "Analysis Methods and Biochemical Mechanisms of Action of Chlorinated Aromatic Compounds in Biota of the Great Lakes". 1993-1994, \$15,000

National Food Toxicology Center "Estrogenic Compounds in Fish of The Great Lakes". 1993-1994, \$20,000

National Food Toxicology Center. "An assessment of the Toxicity of Chemical Oxidation Products of Aqueous Contaminants by Monitoring Intercellular Communication in Mammalian Cell Cultures". 1993-1994, \$20,000

NIEHS. "Development of Novel Bioassay/Biomarker Systems for Detection of Estrogen Agonists in Complex Mixtures." 1994-1999, \$894,652

US EPA-Office of Water. "Bioavailability and Effects of Organic and Inorganic Compounds in Water & Sediment Systems". 1994-1999, \$660,000

Chemical Manufacturers Association. Estrogen Agonists in the Environment, Effects on Fish & Wildlife." 1994-1999, \$1,500,000

US-EPA Great Lakes National Program Office. "Determination of sources and Trends of PCBs in the Detroit River, Michigan." 1994-1996, \$96,000

MSU Cancer Institute. "Methods for determining the strength of estrogen agonists in the environment". 1994, \$25,000

Michigan Dept. Natural Resources. "Determination of sources and Trends of PCBs in the Detroit River, Michigan." 1994-1996, \$84,000

Upjohn Co. Kalamazoo, Michigan. "Semi-Permeable Sampling Devices for Monitoring the Aquatic Environment". 1994-1995, \$67,000

Michigan Great Lakes Protection Fund. “Defining Persistent, Bioaccumulative and Toxic Great Lakes and Research Needs”. 1995-1997, \$139,050

C.J. Johnson, Co. “*In vivo* Methods of Screening for Endocrine Compounds in Aquatic Systems”. 1996-1997, \$10,000

Dow Corning Corp. “Determination for Potential Effects of Polydimethylsiloxanes (PDMS) on Sediment Function”. 1995-1997, \$65,000

Fogerty Institute, NIEHS “Training and Research in Environmental Health: The Balkans”. 1996-2001, \$776,308

US EPA Competitive Grants Program, Biology Exploratory Research Panel “Development of a Bioassay for AhR-mediated Toxicity to Rainbow Trout”. 1997-1999, \$304,771

Dow Elanco, Inc. “Ecological Risk Assessment for the Organochlorine Insecticide *Chlorpyrifos*”. 1996-1997, \$1,000,000

Dow Chemical Company, Inc. “Endocrine Modulators in the Environment”. 1997-1999, \$60,000

Southern Nevada Water District. “Monitoring of Estrogenic Substances in Surface and Drinking Water”. 1997, \$11,000

Chemical Manufacturers Association. “Estrogen Agonists in the Environment, Effects on Fish & Wildlife.” 1998, \$50,000

Southern Nevada Water District. “Monitoring of Estrogenic Substances in Surface and Drinking Water”. 1998-1999, \$250,000

Chemical Manufacturers Association, Ethoxylates panel. “Concentrations of Alkylphenol ethoxylates and their Degradation Products in Fish”. 1998-1999, \$216,000

Woodward-Clyde. “Determination of Total Dioxin-Like Activity in Kestrel Eggs at the Rocky Mountain Arsenal”. 1998, \$179,465

Indo-US Joint Research Program. “A Semi-Automated, Multicomponent Analysis Method for Planar Aromatic Chlorinated Hydrocarbons (PCHs) and Other Compounds in Marine Organisms”. 1998-2000, \$225,000

Ciba Specialty Chemicals, “Estrogenicity of Selected Chemicals”. 1998, \$13,000

Michigan Department of Environmental Quality. “Agricultural and Industrial Residues in Tissues of Amphibians in Lower Michigan”. 1998-1999, \$47,000

Ciba Specialty Chemicals. “Estrogenicity of Process Chemicals”. 1998, \$6,000

Raytheon, Inc. “Distribution of PCBs in Sediments of The Sudbury River, Massachusetts 1998, \$47,000

Fox River Consortium. “Ecological Risk Assessment of PCBs in the Fox River, Wisconsin”. 1998-1999, \$301,834

Michigan Department of Environmental Quality. “A Strategic Environmental Quality Monitoring Program for Michigan’s Surface Waters: Sediments”. 1999-2010, \$1,056,800

3M Company. “Perfluorinated Chemicals in the Environment”. 1999-2000, \$1,300,000

Michigan Department of Environmental Quality. Surface Water Quality Division. “Temporal Monitoring of Chemical Residues in Michigan Inland Lake Sediments”. 1999-2003, \$581,332

Raytheon, Inc. “Distribution of PCBs in Sediments of The Sudbury River, Massachusetts 1999, \$40,000

Great Lakes Protection Fund. “Trophic Level Accumulation of Residues in the Great Lakes”. 1999, \$15,000

Kalamazoo River Study Group. “Ecological Risk Assessment of PCB in Sediments of the Kalamazoo River, Michigan”. 2000-2003, \$2,119,544.

Hong Kong Environmental Protection Department. “Development of a Biological Indicator System for Monitoring Marine Pollution (RCP/1488). 2001-2003. \$1,064,102.

Alkylphenol Ethoxylates Research Council “Concentrations of APEOS and their Degradation Products in Water, Sediments and Fish of Michigan Rivers”. 2000, \$25,000

Hercules, Inc. “Assessment of Toxicity of perfluorinated Compounds”. 2000, \$75,000

Michigan Great Lakes Protection Fund. “Baseline Characterization of Saginaw Bay Watershed Sediments”. 2001, \$77,000

Ecorisk, Inc. “Mechanisms of Action of Atrazine in Adult and Metamorphosing *Xenopus Laevis* and *Rana Clamitans*”. 2001-2003, \$769,714

Michigan Department of Environmental Quality. “Dioxins in the Tittabawassee River System”. 2002, \$75,000

US EPA. “Use of the H295R Human Adrenocortical Carcinoma Line for Screening for Effects of Compounds on Steroidogenesis”. 2002-2004, \$399,998

Dow Chemical Company, Midland, MI. “Ecological Impacts of PCDD/Fs on the Tittabawassee River”. 2003, \$326,000

Ciba Specialty Chemicals, Manchester, UK. “Assessment of the Estrogenic Potential of Fluorinated Compounds”. 2003, \$15,000

Hong Kong Ministry of Environment. “Application of Biomarkers to Assess Effects of Pollutants in Hong Kong Harbor”. 2002-2003, \$104,778

National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan. “Survey of Concentrations of Perfluorinated Chemicals in the Marine Coastal Waters of China and Korea”. 2003, \$32,000

Brown and Caldwell, Maui, Hawaii. “Analysis of Industrial Chemicals in Waste Waters from Honolulu”. 2003, \$19,020

US EPA. “Optimization of an Assay using the H295R Cell Line to Identify Chemical Modulators of Steroidogenesis and Aromatase Activity”. 2004-2006, \$894,050

Dow Chemical Co. “Field Studies in Support of the Tittabawassee River Ecological Risk Assessment.” 2004-2008, \$8,071,939

Hong Kong University Grants Council. “Studies on Endocrine Disruptors and Red Tide Toxins in Coastal Waters of Hong Kong: A Risk Assessment Approach”. 2004-2005, \$166,666

Hong Kong University Grants Council. “Establishment of the Center for Marine Environmental Research and Innovative Technology (MERIT)”. 2004-2009, \$12,911,392

US EPA Science to Achieve Results (STAR) Program on Computational Toxicology and Biology in Hazard Identification and Risk Assessment. “Chemical Induced Changes in Gene Expression Patterns (GEPs) using a Small Fish Model: A Systems Approach”. 2004-2007, \$750,000

Hong Kong University Research Grants Council. “Fates and Effects of PFCs and PBDEs in the environment.” 2005-2006. \$130,485.

Hercules Inc. “Assessment of Toxicity Potential of Perfluorinated Compounds”. 2005-2006. \$50,000

Canada Research Chairs Program. “Establishment of the Canada Research Chair in Environmental Toxicology at the University of Saskatchewan”. 2006-2011, (\$1,400,000 CAD), \$1,050,000

Dow Chemical Company. “Mink Feeding Study: Kinetic Evaluation Exposure to Ecologically Relevant Concentrations of 2,3,7,8-TCDF and 2,3,4,7,8-TCDF”. 2006. (\$349,224 CAD), \$397,500

US EPA. “Standardization and Refinement of the H285R Cell-Based Assay to Identify Chemical Modulators of Steroidogenesis and Aromatase Activity”. 2006-2007, \$507,327.

Dow Chemical Company. “Exposure of the Ecological Food Web in the Saginaw River to Polychlorinated dibenzofurans. 2006-2007, \$705,414.

Canadian Foundation for Innovation (CFI). “Equipment grant to purchase LC/MS-MS mass spectrometer. 2006, \$815,608.

Western Economic Diversification Canada. “Bioanalytical Toxicology Tools for Industry.” Equipment/infrastructure grant (match funding for Canada Foundation for Innovation grant). 2007, \$465,000.

Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning. “Avian Developmental Toxicity of Perfluorochemicals-Species Sensitivity Differences and Mechanisms of Action.” 2007-2009, \$378,670.

Canada Foundation for Innovation Major infrastructure grant, New Initiatives Fund, Ottawa, ON, Canada. “Aquatic Toxicology Research Facility “. 2006. \$6,313,000.

Dow Chemical Co. “Examination of the Relative Potency (ReP) of two Dibenzofuran congeners (2,3,7,8-TCDF and 2,3,4,7,8-TCDF) in a Model Mammalian System”. 2006-2008, \$841,958.

3M Company. “Temporal and Spatial trends of Perfluorinated Chemicals in the Environment”. 2007-2011, \$200,000.

Dow Chemical Co. “Use of AhR Amino Acid Sequences to Predict the Relative Sensitivity of Birds to Polychlorinated Dibenzofuran (PCDF) and Polychlorinated Dibenzodioxin (PCDD) Congeners”. 2007-2009, \$280,000

Dow Chemical Co. “In ovo Toxicity of Polychlorinated Dibenzofuran (PCDF) and Polychlorinated Dibenzodioxin (PCDD) Congeners to Birds”. 2007-2009, \$270,000

3M Corp. “Determination of Relative Response Factors and Matrix Effects on Quantification of Perfluorinated Compounds”, 2007, \$29,750.

Teckcominko, Inc. “Toxicological Assessment of White Sturgeon (*Acipenser transmontanus*) Early Life Stages Exposed to Liquid Effluents of the Teckcominco Metals Ltd. Trail Facility” 2007, \$337,590.

Michigan Department of Environmental Quality for “A Strategic Environmental Quality Monitoring Program for Michigan’s Surface Waters: The Inland Lakes Sediment.” 2007-2008, \$473,594.

US EPA. “Standardization and Refinement of the H285R Cell-Based Assay to Identify Chemical Modulators of Steroidogenesis and Aromatase Activity”. 2007, \$176,394.

US EPA. “Global Inter-laboratory Validation of the H285R Cell-Based Assay to Identify Chemical Modulators of Steroidogenesis and Aromatase Activity”. 2007-2008, \$612,183.

National Science and Engineering Research Council of Canada (NSERC). “Risks of Polyfluorinated Compounds in the Environment” Discovery Grants Program, 2007-2012, \$200,000.

Western Economic Diversification Foundation (Canada). “Establishment of a Novel Toxicology Research, Development and Chemical Testing Industry in Saskatoon, Saskatchewan, Canada. 2009-2011. \$1,770,000.

Hong Kong University Research Grants Council. "Functional relationship between HIF and 3-beta-HSD2 in zebrafish: A gain and loss-of-function study" 2007-2010, \$121,795.

Hong Kong University Grants Council. “Measurement and assessment of perfluorinated compounds in waterbirds and marine cetaceans in Hong Kong”. 2007-2009, \$ 87,941.

Saskatchewan Health Research Foundation. “Intrauterine Antecedents of Inflammatory Mediated Disease” 2007-2009, \$300,000.

Teckcominko, Inc. “Toxicological Assessment of White Sturgeon (*Acipenser transmontanus*) in the Upper Columbia River - Water Related Issues” 2008, \$1,227,645.

Mid Saskatchewan Regional Economic and Co-operative Development. “Investigation of Nutrient Sources and Causes of Algal Blooms in Lake Diefenbaker, Saskatchewan.” 2008-2009, \$100,000.

Chinese National Basic Research Project (973 Program). “Ecological Risk Assessment and Control Strategy of Regional Mixed Pollution”. 2007-2011, (3,100,000 RMB) \$387,500.

Chinese National Science Support Project. “Integrated Technologies and Mechanism Design for POPs Control and Treatment”. 2007-2010, (4,500,000 RMB) \$562,500.

Alberta Water Research Institute. “Safe, Secure Water Supplies in Alberta”. 2008-2010, \$3,300,000.

Dow Chemical Co. “Dynamics of Polychlorinated Dibenzo Furans in Tissues of Japanese Quail, Chickens and Turkeys”. 2008-2009, \$658,000.

Chinese Ministry of Education and the State Administration of Foreign Experts. “Marine biogeochemistry and ecotoxicology” (“111” Program). 2007-2012, (4,500,000 RMB) \$789,000.

Hong Kong Research Grants Council, Group Research Program. “Environmental Screening, Computational and Biological Characterization of Endocrine Disruptors in Respect to Receptor Binding, Embryo and Gonad Physiology. 2009-2012, (\$45,000,000 HKD) \$ 641,026.

Hong Kong Research Grants Council, Group Research Program Centre for Marine “Environmental Research and Innovative Technology (MERIT)”. 2009-2012 (\$66,600,000 HKD) \$8,538,461.

Teckcominko, Inc. “Assessment of Surface Water Toxicity to White Sturgeon (*Acipenser transmontanus*) in the Upper Columbia River. 2009-2010. \$966,299.

Hong Kong General Research Fund (GRF). “Understanding the relationship between gender, estrogen and telomere biology in fish: Towards developing an alternative vertebrate model for aging studies” No: 9041468, 2009-2012 (HK\$730,000). \$93,590.

Chinese Ministry of Education. "Study on marine environmental physiology and toxicology" , 2010-2014, (3,000,000 RMB) \$439,303.

National Science and Engineering Research Council of Canada (NSERC). “CREATE Training Program in Human and Ecological Risk Assessment (HERA)”. 2010-2015, \$1,634,292.

U.S. EPA Great Lakes Restoration Initiative, Toxic Substances and Areas of Concern, Program: I-A-6 Great Lakes Sediment Core Surveillance Program. 2010-2015, \$2,575,518.

Teck American Inc. “Pilot Study to Develop Methods for Studying the Potential Effects of Metals in Sediments on White Sturgeon (*Acipenser transmontanus*) Larvae”. 2010, \$101,046.

Teck American Inc. “Sediment Toxicity Testing on Early Life-Stages of White Sturgeon (*Acipenser transmontanus*)”. 2010-2011, \$554,162.

National Science and Engineering Research Council of Canada (NSERC), and Canada Institute for Health Research, Canada Health Research Program, Institute of Infection and Immunity (III). “Impact of Common Environmental Chemicals on the Allergy and Asthma Epidemic”. 2009-2012, \$616,591.

Western Economic Diversification of Canada and Enterprise Saskatchewan. Development of Technology to Extract petroleum Hydrocarbons and Waste Products from Oil Sands”. 2010-2013, \$2,035,700.

Oak Foundation. “Contaminants and Fish Health in the Athabasca River”. 2010-2011, \$250,000.

Royal University Hospital Foundation. Saskatoon, Saskatchewan, Canada. “Endocrine Disrupting Chemicals: Potential Effects on Female Reproductive Health in Saskatchewan”. 2011-2013, \$24,956.

National Plan for Science and Technology of Saudi Arabia. .“Effects of Polybrominated Flame Retardants from Electronic Waste on the Cellular DNA and Carcinogenesis.” 2011-2013, 1,996,000 Saudi Rials (\$532,218)

King Saud University, Visiting Professor Program. “Beneficial Uses of Natural Brominated Chemicals in the Marine Environment”. 2011-2013, \$130,000

King Saud University Vice Rector for Research. “Global Research Network for Environmental Science”. 2011-2012, \$520,000 Saudi Rials (\$138,653).

Hong Kong Research Grants Council. “Uncovering the Molecular Links Between Hypoxia and Endocrine Disruption: A Functional Study of Zebrafish Leptin” 2011-2014, (\$977,500 HKD), \$125,407

State Key Laboratory for Marine Pollution, City University, Hong Kong. “Health risk assessments of residents in the Pearl River Delta exposed to brominated flame retardants (BFRs)”, 2012-2014, (\$900,000 HKD), \$115,696

National First Nations Environmental Contaminants Programme Health Canada. “In Land and Life: Cadmium and Health Implications for Indigenous Communities in Central Alberta”. 2011-2013, \$264,960.

Aboriginal Affairs and Northern Development Canada. “Analysis of Fish Collected from the Slave River NWT in Fall and Winter 2011-2012”. 2011-2012, \$125,000.

State Key Laboratory for Marine Pollution, City University of Hong Kong. Hong Kong. “Development of Novel Technology for Early Diagnosis and Monitoring of Immunotoxic Pollutants in the Marine Environment”. 2010-2011, \$12,690.

State Key Laboratory for Marine Pollution, City University of Hong Kong. Hong Kong. “Unraveling Tissue-Specific Mechanisms for *In Vivo* Regulation of Estrogen Target Genes in Medaka”. 2010-2011, \$45,685.

State Key Laboratory for Marine Pollution, City University of Hong Kong. Hong Kong. “Understanding the Estrogen Dynamics and Longevity Gender Gap in Medaka”. 2010-2011, \$25,380.

State Key Laboratory for Marine Pollution, Hong Kong, Seed Grant. “Health Risk Assessments of Residents in the Pearl River Delta Exposed to Brominated Flame Retardants” 2010-2011, \$114,213.

National Science and Engineering Research Council of Canada (NSERC). “Novel Natural and Synthetic Brominated Compounds in the Environment” Discovery Grants Program, 2012-2017, \$200,000.

National Science and Engineering Research Council of Canada (NSERC) Collaborative Research and Development Program (CRD) Program With Syncrude, Inc as industrial partner. “The Base Mine Lake Toxicity Identification and Evaluation Study; Advancing knowledge for water reclamation and return.”, 2012-2015, \$1,061,500.

Canada Excellence Research Chair in Water Security. “A Paleolimnological Investigation of Lake Diefenbaker”. 2011-2014, \$375,117.

Canada Excellence Research Chair in Water Security. “Exotic Chemical Contaminants in the South Saskatchewan River Basin”. 2011-2014, \$590,000

Communities of Tomorrow. “Expansion and commercialization of *in vitro* screening assays for the detection and assessment of endocrine disrupting potentials of chemicals, waste- and drinking-water.” , 2011-2012, \$30,000

Networks of Centres of Excellence – Mathematics of Information Technology and Complex Systems (NCE-MITC), Inc. “Expansion and commercialization of *in vitro* screening assays for the detection and assessment of endocrine disrupting potentials of chemicals, waste- and drinking-water., 2011-2012, ”\$15,000.

Shanxi Science and Technology Department. “Sino-Canadian cooperation on microbial and phytoremediation technologies for clean-up of PAHs and heavy metals contaminated soils in Shanxi industrial regions”. (No. 2012081010), 2012.01-2013.12, 2012-2013, (350,000¥) \$55,074.

Ministry of Education and the State Administration of Foreign Experts, China to State Key Lab of Marine Environmental Science, Xiamen University “Marine Biogeochemistry and Ecotoxicology Program of Introducing Talents of Discipline to Universities ("111" Program). 2012-2016, (¥ 4,500,000 RMB), \$710,900

Minister of Education, China, To J.P. Giesy through Nanjing University. "High Tier Foreign Expert Program", (GDW20133200121), 2012-2013, (¥ 120,000 RMB), \$18,682.

Canadian Foundation for Innovation (CFI), Leaders Opportunity Fund. “Saskatchewan River Basin: a large-scale observatory for new interdisciplinary water science”. 2013-2017, \$1,999,999.

Canada Research Chair Program. May 2014-April 2021. (\$1,400,000 CAD), \$1,050,000

Institutional Support from University of Saskatchewan for Canada Research Chair. April 2014-April 2021. (\$530,000 CAD), \$397,500

Solutions for present and future emerging pollutants in land and water resources management. Funded by European Commission, Directorate for Innovation and Research, Directorate I *Environment*. “Toxico-genomic Assessment of Emerging Environmental Pollutants Using Novel Functional Genomic and High Throughput Technologies” 2013-2018, (€350,000) \$453,270.

Texas A&M University-NSFC joint research program and National Science Foundation of China. “A comparative Assessment of the Potential Impacts of Harmful Algal Blooms on Aquatic Birds from Lake Taihu, China, and Brazos River Lakes in Central Texas, USA”. 2013-2014, \$32,878

Canadian Water Network. “Aquatic Impact Assessment of Municipal Effluents (AIME). 2013-2015, \$149,996.

Egyptian Cultural Exchange Program. “Effects on Pesticides on Honey Bees in Egypt and Canada”. 2013-2015, \$14,000 CAD

National Science and Engineering Research Council of Canada (NSERC) Strategic Program With Buffalo Pound Water Administration Board as Partner. “Understanding lake metabolism and nuisance algal metabolites: New tools for management of potable water sources.” 2013-2016, \$625,864.

Canadian Foundation for Innovation (CFI). “Facility for Applied Avian Research (FAAR)” 2014 CFI funding \$799,826 (Total project cost: \$1,999,566).

National Sciences Foundation of China (NSFC). “Emission, Diffusion and Environmental Effects of Emerging Pollutants from Rapid Urbanization”. 2015-2019. (¥ 3,000,000 RMB; \$491,180 CAD), \$368,385.

Fisheries and Oceans Canada. “Assessing the Adverse Effects of Emerging Chemical Contaminants on Fishes of Commercial, Aboriginal and Recreational Value to Canadians (AECCO)”. 2014-2015. (\$444,998 CAD) \$344,959.

Western Economic Diversification Canada (WED). “Analytical Toxicology Base in Support of Economic Development” #G00015898. - April 1, 2013 to March 31, 2017. (\$835,341 CAD), \$626,506

Meadow ridge Enterprises. “The Saskatraz Honey Bee Project”. October 2014-Sept 2015. (\$24,000 CAD), \$18,000

Global Institute for Water Security, University of Saskatchewan. “Synoptic Survey of Contaminants in the South Saskatchewan River”. March 2015-August 2015. \$59,100

University Faculty Research Investment Program, funded by the Baylor Office of the Vice Provost for Research (OVPR). “Sources of Organo-bromine Compounds in Sediments”. June 1, 2016 – May 31, 2017, \$20,060.

National Science and Engineering Research Council of (NSERC), Canada First Research Excellence Fund (CFREF. “Global Waters Future”. September 1, 2016-August 31, 2023, (\$77,840,000 CAD from NSERC) \$ 60,340,900 (**Note:** *\$143,000,000 of total funding including matching cash from institutions; Includes 18 universities, 8 federal agencies, 24 provincial agencies 39 industry partners, 45 international institutions, 15 NGOs and 7 Indigenous Communities*). JPG is one of 10 Co-Is.

National Contaminants Advisory Group, Fisheries and Oceans Canada. “Potential Impacts of Modern Perfluorinated Chemicals on Fish”. May 1, 2017-April 28, 2020, (\$286,800 CAD), \$215,100

National Contaminants Advisory Group, Fisheries and Oceans Canada. “Evaluating Effects of the Huskey Oil Spill on Fishes in the North Saskatchewan River”. May 1, 2017-April 28, 2020, (\$257,888 CAD), \$193,416

National Science and Engineering Research Council of (NSERC), Canada First Research Excellence Fund (CFREF. “Global Waters Future”. September 1, 2016-August 31, 2020, (\$2,200,000 CAD) \$ 1,650,000.

National Science and Engineering Research Council of Canada (NSERC). “Novel Natural and Synthetic Brominated and Iodinated Compounds in the Environment”. Discovery Grants Program, 2017-2023, (\$234,000 CAD), \$175,500

Beef Cattle Research council of Canada. “Assessment of Occurrence of Synthetic Hormone [melengestrol acetate (MGA), trenbolone acetate (TBA)] and Beta-agonist (ractopamine) in Cattle Operations and Associated Environments”. 2018-2021. (\$502,000 CAD), \$376,500

National Science and Engineering Research Council of (NSERC), Canada First Research Excellence Fund (CFREF. “Global Waters Future Pillar 3”. “Next generation solutions to ensure healthy water resources for future generations” June 1, 2016- May 31, 2019, (\$1,391,228 CAD), \$1,086,897

National Science and Engineering Research Council of (NSERC), Canada First Research Excellence Fund (CFREF. “Global Waters Future Pillar 1”. “Omic’ and chemical fingerprinting methodologies using ultrahigh-resolution mass spectrometry for geochemistry and healthy waters”. May 2018-April 2021. (\$250,000 CAD) \$190,000

National Science and Engineering Research Council of (NSERC), Banting Fellowship “Reconnaissance, Prioritization, Effects Assess of Novel an Emerging Organic Contaminants in Drinking and Surface Waters Using Advanced Ultrahigh-Resolution Mass Spectrometry” October 1, 2019-September 31, 2021. (\$160,000 CAD) \$120,787

Research Junction Development Grant, Research Junction (funded by the City of Saskatoon and University of Saskatchewan). “Measurement and modelling of pharmaceutical concentrations in the Saskatoon Wastewater Treatment Plant”. January 2020 - June 2021. (\$27,150 CAD). \$20,363

National Science and Engineering Research Council of (NSERC), Canada First Research Excellence Fund (CFREF. “Global Waters Future Pillar 3”. “Next generation solutions to ensure healthy water resources for future generations” September 1, 2020- August 31, 2023, (\$785,486 CAD), \$589,114

National Contaminants Advisory Group, Fisheries and Oceans Canada “Fate, bioaccumulation, and ecological effects of mixtures of the psychoactive drugs venlafaxine and clozapine in freshwater ecosystems”. June 1, 2020-May 30, 2022. (\$500,803 CAD). \$375,632

Western College of Veterinary Medicine, “Reduced Appointment Research Grant”.,September 1, 2020-August 31, 2022, (\$58, 406 CAD) \$46,724.

Health Canada and the Public Health Agency of Canada. “Wastewater Surveillance for SARS-CoV-2 in the Province of Saskatchewan”. March 1, 2021-March 31, 2022. (\$292,717.50 CAD) \$234,174.

TOTAL RESEARCH GRANTS

\$165,739,571¹

\$192,788,245²

\$278,311,808³

¹(US Dollars)

²(US Dollars, corrected for inflation to 2021\$)

³(Canadian Dollars corrected for inflation to 2021\$)

CONSULTANTSHIPS:

- * **Academy of Finland, Research Council for Biosciences and Environment:** Helsinki, Finland
 - (1) External proposal reviewer, 2004
- * **Alabama Attorney General:** Montgomery, AL 1994
 - (1) Review of sediment toxicity information from Dye plant
- * **Alberta Ministry of Environment**
- * (1) Water Monitoring Data Review Committee (Chair)
- * **Alkyl Phenol Ethoxylates Research Council:** Washington, D.C.
 - (1) Development of long-range strategic study plan for ecological risk assessments of Alkylphenol ethoxylates and their degradation products.
 - (2) Field studies of concentrations of APEOs and their degradation products in surface water, sediments and fish tissues.
- * **American Forest and Paper Association:** 2000
 - (1) Ecological risk assessment of polychlorinated dioxins in fishes in rivers of Maine to bald eagles.
 - (2) Development of a bald eagle restoration plan for the State of Maine
- * **BASF Corporation:** Ludwigshafen, West Germany.
 - (1) Assisted in selecting and implementing environmental fate models to study the probable fate of products. 1988.
- * **Belgian Prime Minister; Science Policy Office - National Impulse Program in Marine Sciences:** Brussels Belgium. 1991.
 - (1) Review of program and research proposals on science and economics research on the North Sea.
- * **Brown and Caldwell, Inc.** Maui, Hawaii
 - (1) Analysis of Industrial Chemicals in Waste Waters from Honolulu”
- * **Camp, Dresser and McKee:** Detroit, Michigan

- (1) Natural resource damage assessment for effects of PCBs and dioxins in Saginaw Bay, Michigan
- * **Canadian Foundation for Innovation**
- (1) Expert Committee to review proposals in the area of Bioproducts, 2008
- * **Canadian Government Chemical Management Plan**
- (1) Review of proposals (2008)
- * **Canadian Government Minister of Environment**
- (1) Chairman, Board of Review for Decamethylcyclopentasiloxane (D5) (2010-2011)
- * **Canada Research Chairs program:** Ottawa, Canada
- (1) External reviewer of chair application to University of Guelph, 2005
- (2) External reviewer of chair application to University of Waterloo, 2005
- * **Canadian Network of Toxicology Centres:** Guelph, Ontario.
- (1) Board of directors. 1991-Present.
- (2) External audit of programs-member of audit team
- * **Cantox corp:** Mississauga, Ontario, Canada.
- (1) Expert panel for Project for Chlorine Institute on chlorinated hydrocarbons in the environment. 1992.
- (2) Reviewer- Scientific principles for evaluating the potential for adverse effects from chlorinated organic chemicals in the environment. 1995
- (3) Member of Expert Panel for the review of the Human and Ecological Risk Assessment of the Herbicide *Roundup* (Glyphosate). 1998
- * **CBR-Canada:** Sidney B.C. Canada.
- (1) Review of sediment quality guidelines for polycyclic aromatic hydrocarbons. 1991.
- * **Cumulative Environmental Management Association (CEMA):** For MacMurry, Alberta
- (1) Review: *Guideline for Wetland Establishment in the Oil Sands Region*, 2007 Edition. 2010

- (2) Review: *Appendices to the Guideline for Wetland Establishment in the Oil Sands Leases, Revised (2007) Edition.* 2010
- * **CH2MHill, Minneapolis, MN**
 - (1) See CEMA, 2010
- * **Chemical Manufacturer's Association:** Washington, D.C.
 - (1) Briefings on chlorinated hydrocarbons in the environment to CMA Council. 1991
 - (2) Briefings to congressional staffers on the senate and house sides. Issues: Chlorinated hydrocarbons, especially xeno-estrogens in the environment. Re-authorization of the *Clean Water Act*.
- * **Chlorine Chemistry Council:** Washington, D.C., 2001
 - (1) Review of Research foundation for Health and Environmental Effects Science Research Plan for Fy 2001-2006.
- * **Chlorine Institute.** Washington, D.C.
 - (1) Preparation of position papers on the sources, fates and effects of chlorinated compounds in the environment. The 1900 page document covers 9 product categories and over 90 compounds. 1992-1994
- * **City of Columbus, Ohio Water Works:** 1979.
- * **City University of Hong Kong, Co-operative Education Center, Faculty of Science and Engineering, 2005-Present**
 - (1) Student mentor for environmental sciences
 - (1) Pilot study to reduce halomethane precursors in feed water by ultrafiltration.
- * **Clemson University- The Institute of Wildlife and Environmental Toxicology (TIWET):**
 - (1) External Advisory Board. 1991-1994. 1996-1997; Co-chairperson 1993-1994.
 - (2) Consultant to hire a new director for TIWET
- * **Commerce Township, Michigan**
 - (1) Assessment of Potential Toxicity of Ammonia to the reidsided dace in Michigan Waters. A risk assessment conducted for Commerce Township, Michigan, 2005
- * **Consumer Power Company:** Jackson, MI.

- (1) Review of potential hazards due to coal ash stored at Woodtick Point, Ohio and use of material in constructing a sea wall in Lake Erie. 1989.
- (2) Assessment of the risk of Arsenic and Selenium migrating off site at an ash disposal basins at the Campbell plant near Grand Haven Michigan.
- (3) Assessment of the potential risks of dam removal on rivers in Michigan. Residues in fish and sediments were measured and a risk assessment conducted.

* **State of Delaware, Attorney General's Office:**

- (1) "Marine Sediment Contamination by Coal." 1984.

* **Dow-Corning, Corp.** Midland, Michigan

- (1) Science advisory group (SAG) for silicones in the environment Jointly With: Procter & Gamble Co. 1991.
- (2) Reassessment of silicones in the environment. 1994.
- (3) External promotion reviewer, 2004

* **DowAgrosciences, Inc.:** Indianapolis, IN

- (1) Ecological Risk Assessments of chlorpyrifos in surface waters , 1998
- (2) Comments to US EPA on their ecological risk assessment for chlorpyrifos.

* **EarthWatch Institute: Maynard, MA**

- (1) Member of Speaker Bureau, 2002-

* **East Lansing, Waste Water Treatment Plant:**

- (1) Bioassay for waste water permitting.

East Michigan Environmental Action Council: Birmingham, Michigan.

- (1) Revision of Hazardous Waste Siteing Response Handbook. 1989-1990.

* **ECETOC, Brussels, Belgium**

- (1) Briefing on Estrogenic Compounds in the Environment, 1994

* **ENTRIX, Inc.,** Houston, TX:

- (1) Senior Consultant, 1995-Present

- * **Environment Agency of England and Wales:** Wallingford, England, UK
 - (1) External reviewer Environment Agency Science on Endocrine Disruptors, 2004
- * **Environment Canada: Canadian Center for Inland Waters,** Burlington, Ont., Canada.
 - (1) "Workshop on developing biological sediment criteria". 1991.
 - (2) Intergovernmental Aquatic Toxicology Group. 1990.
 - (3) Subcommittee Review of "Environment Canada Sediment Guideline". 1992
- * **Environment Canada:**
 - (1) Review of Draft Technical Document for the Canadian Environmental Screening Assessment of Perfluorooctane Sulfonate (PFOS) and Its Precursors Under the Authority of the Canadian Environmental Protection Act. (CEPA 1999). 2003
- * **Environment Canada: Great Lakes University Research Council.**
 - (1) Review of research proposals. 1991.
 - (2) Technical subcommittee to review "Guidelines on collection, storage, manipulation of whole sediment, pore water, elutriates and solvent extracts of sediments for toxicity testing and chemical characterization". 1992-
- * **Environmental Policy Center Law Companies Environmental Group:**
 - (1) Review of Risk Dialogue Group Documents.
- * **European Commission, Directorate General-12,** Brussels, Belgium
 - (1) Joint EU/US Endocrine Disruptor Expert Panel on Research Directions, 1999
- * **External Advisory Council - Institute of Wildlife and Environmental Toxicology, Clemson, University:** 1990-1993.
- * **Florida Department of Environmental Protection:** Tallahassee, Florida.
 - (1) Task Force on Water Pollution Control. Metals in fish effects on fish, mercury and cadmium. 1983.
 - (1) Assessment of Potential Toxicity of Ammonia to the reidsided dace in Michigan Waters. A risk assessment conducted for Commerce Township, Michigan, 2005
- * **Armand Frappier National Scientific Research Institute,** Laval, QC, Canada.

- (1) Promotion and tenure review, 2010
- * **Greely and Hanson Inc:** Chicago, Illinois; 1983.
 - (1) Assessment of the use of "Microtox^R" as a rapid screening tool for acute toxicity studies.
- * **Griffith University:**
 - (1) External Reviewer of Ph.D. Dissertation
- * **Hercules, Inc.,** Wilmington, DE
 - (1) Assessment of risks of dioxins to wildlife, Bayou Meto, Vertac Site, Jacksonville, Arkansas, 1999-2000
 - (2) Ecological risk assessments of perfluorinated compounds, for registration. 2000-201
- * **Hoechst-Roussel Agri-Vet Company: Sommerville, NJ.**
 - (1) Review of testing protocols for agricultural chemical ecotoxicology. 1986-1990.
 - (2) General consultant on agricultural chemical ecotoxicology. 1985-1990.
- * **Hong Kong Baptist University:** Hong Kong, China
 - (1) External examiner for Degree of Doctor of Philosophy, 2004
 - (2) Referee, promotion and tenure, 2009
 - (3) Referee, promotion and tenure, 2010
- * **Hong Kong Environmental Protection Department**
 - (1) Review and Development of Marine Water Quality Objectives: Fiesibility Study, 2008-2009
- * **Hong Kong Research Grants Council:** Hong Kong, China
 - (1) Grant Proposal review, 2001
- * **Hudson River Foundation:** New York, NY
 - (1) Proposal review panel, 1997

- * **HydroQual, Inc:** Mahwah, NJ.
 - (1) Design of study for registration of Chlorpyrifos for Turf Grass applications. 1987.
- * **Idaho Board of Education Specific Research Grant Program**
 - (1) Review of research proposals, 1993.
- * **Indiana University School of Public and Environmental Affairs:** Bloomington, Indiana
 - (1) External reviewer for promotion and tenure, 1997
- * **Intelcom, Inc.:** Pasadena, CA
 - (1) Preserving the Legacy. A 26 part educational video program on environmental biology, produced for the National Science Foundation. Preparation of materials and on-camera interviews.
- * **International Joint Commission:** Windsor, Ontario, Canada.
 - (1) Consultation on the use of bald eagles as indicators of ecosystem health. 1990, 1991.
 - (2) Consultation on effects of contaminants on reproduction of salmonid fishes of the Great Lakes. 1990.
 - (3) Objectives and evaluation subcommittee to set water quality standards. 1987-1991.
 - (4) Ecosystem objectives workgroup of binational objectives development committee. 1991-1993.
 - (5) Consultation on the effects of contaminants on colonial water birds of the Great Lakes Region. 1992.
 - (6) Reviewer of Detroit River Remedial Action Plan, 1991.
- * **Irish Research Council for Science, Engineering and technology (IRCSET):** Dublin, Ireland
 - (1) External reviewer of grants for the EMBARK Initiative, 2004
- * **Italian Institute of Hydrobiology, Italian National Research Counsel:** Pallanza, Italy.
 - (1) Sediment toxicity and metal speciation in Lake Orta, which is acidified and contaminated With: copper and ammonia.
- * **Kalamazoo River Study Group:** Kalamazoo, Michigan

- (1) Ecological Risk Assessment of PCBs in Sediments of the Kalamazoo River, Michigan
- * **Kemper Insurance Co.:** See Tressler et al.
- * **Kimberly-Clark, Inc.:**
 - (1) Advisory Group, fates and effect of chlorinated dioxins and similar compounds. 1992-Present.
- * **King Faisal University:** Dammann, Saudi Arabia
 - (1) External advisor and program reviewer, 1992-Present.
- * **Lewis Publishers:** Chelsea, MI. CRC Press, Boca Raton, FL, 1987-Present.
 - (1) Editorial board.
 - (2) Advances in trace substances research.
- * **Life Systems, Inc.,** Cleveland, Ohio: 1979-1992.
 - (1) Periodic review of EPA documents such as reports and standards.
 - (2) Periodic responses to technical questions on fate and effects of trace contaminants in aquatic systems.
- * **Limnotech Inc:** Ann Arbor, Michigan. 1983-1990.
 - (1) Optimization of sampling plan for U.S.E.P.A. Water Quality Monitoring and the Waste load Allocation Program.
 - (2) Litigation land developers vs. Fairfax County, VA. Assessment of Effects of Treatment of Occuquon Reservoir With: Copper Sulfate. General waste and runoff water allocation problem.
- * **Macarek University, Research Center for Toxic Compounds in the Environment (RECETOX), Brno, Czech Republic.** External Advisor and Reviewer, 2014-Present
- * **Maine Pulp and Paper Association:** Portland, Maine, 2001-2002
 - (1) Survey of Dioxins in fish above and below 7 paper mills. Experimental and statistical design and analysis.
- * **MAXUS Energy Corp:** 1991.

- (1) Sediment monitoring and assessment.

* **Michigan Council on Environmental Quality:** Lansing, Michigan

- (2) Panel to set Environmental Priorities for the State of Michigan, January, 1990.

* **Michigan Department of Agriculture:** Lansing, Michigan

- (1) Advisory Working Group on Dioxin, 2002

* **Michigan Department of Natural Resources, Biology Division:** Lansing, Michigan, 1981-Present.

- (1) Review of water quality criteria for metals.
- (2) Assessment of effluent toxicity at the Anthony Ragnone Waste Water Treatment Plant, 1982. *In situ* acute and chronic fish bioassay. Responses to ammonia and chlorine. Enzyme and substrate analysis, histopathology.
- (3) Review of "draft document," Interdepartmental Risk Assessment in Michigan.
- (4) Development of surface water quality standard for selenium. 1985.

* **Michigan Department of Natural Resources:**

- (1) Review of "Michigan Site Assessment System (MSAS)." A model for priority of sites for remedial action under the Michigan Environmental Response Act (ACT 307)." 1987.
- (2) Hazardous Waste Site Review Board. Seven member board to study and make recommendations on the licensing and regulation of generating, transporting, treating, storing or disposal of hazardous materials. Appointment by Governor. 1989-1990.
- (3) "Development of a Multi-Media Inventory for Bioaccumulative Compounds of Concern (BCCs) for the Saginaw Bay Watershed", Advisory Committee, 1994-Present.

* **Michigan Department of Public (Community) Health:** Lansing, Michigan

- (1) Development of advisories for consumption of fish from the Great Lakes by humans, May 1989-present.
- (2) Sampling plan and chemical analyses of samples of Great Lakes fishes, May, 1989.
- (3) Review of proposed methods to remove PBBs from contaminated people and livestock, April, 1990.

- (4) Division of Toxicology and Chemistry and Division of Occupational Epidemiology. Delegate to the workshop on development of a biomonitoring program. 2002.
- (5) Biomonitoring Planning Team. Development of list of chemicals of concern for possible monitoring.
- * **Michigan Great Lakes Protection Fund:**
 - (1) Program Review, 1991.
- * **Michigan Legislative Services Bureau Science Office:** Lansing, Michigan
 - (1) Herbicide active ingredients. 1984.
- * **Michigan United Conservation Clubs:**
 - (1) Effects of Contaminants on Furbearers of the Great Lakes Region. Preparation of Study Plan. 1989.
- * **Moneco Consultants, Ltd:** Calgary, Alberta, Canada.
 - (1) Review of Water Quality Criteria documents. Benzene and Chlorinated Benzenes. 1986-1987.
- * **Monsanto Corp (Solutia, Inc.).**
 - (1) External Reviewer-Environmental Stewardship programs. 1985
 - (2) Member of Expert Panel for the review of the Human and Ecological Risk Assessment of the Herbicide Roundup (Glyphosate). 1998
- * **Oak Ridge National Laboratories, Environmental Sciences Division:** Oak Ridge, Tennessee
 - (1) External Advisory Board
- * **Oxidental Petroleum, Inc.:** 1991.
 - (1) Sediment monitoring and assessment.
- * **National Wildlife Federation:** Washington, D.C.
 - (1) Review of Great Lakes Initiative Plan for control of toxics in the Great Lakes.
- * **National Academy of Sciences and National Research Council**
 - (1) Committee on Hormone-Related Toxicants in the Environment: 1997-1999

- (2) Committee on Risk-Based Criteria for Non-RCRA Hazardous Waste: 1998-1998
- (3) Committee on Vietnam Agent Orange Research Interests and Priorities: 1998-1999
- * **National Agricultural Chemical Association (NACA):** Washington, D.C.
 - (1) Development of testing protocols to determine the environmental impact of agricultural chemicals. 1984-Present.
- * **National Air and Stream Improvement Institute (NCASI):**, Kalamazoo, Michigan.
 - (1) Briefing on chlorinated dioxins in the environment to officials of pulp and paper industries, Chicago, IL. 1992.
- * **National Institutes of Health, National Institute of Environmental Health Sciences, Superfund Basic Research Program**
 - (1) Review of Superfund Basic Research Program applications, October 4-7, 2004, Research Triangle Park, NC.
- * **National University of Singapore**
 - (1) Reviewer for Promotion and Tenure, 20015
- * **Natural Environment Research Council:** Swindon, UK
 - (1) External reviewer Directed Research Grants Program, 2004
- * **New York State Department of Conservation:**
 - (1) Review of "Biothreat" model for hazard assessment of hazardous waste sites. 1987.
- New York State Department of Health:** Albany, New York
 - (1) Review of Research Scientist for promotion. 2005
- * **New Zealand Ministry of the Environment:** Auckland, New Zealand.
 - (1) Lead consultant for national environmental risk assessment of organochlorine compounds, 1997-1999.
- * **Netherlands Health Council,** 2002
 - (1) Review of method for the development of environmental risk limits for PCBs in the environment

- * **Northwest University**, Pochofstroom, South Africa
 - (1) External reviewer promotion and tenure, 2015
- * **NOVA WGBH Television**: Boston
 - (1) Review of Programming on Environmental Issues, 1994
- * **Novartis, Inc.**
 - (1) Member of Expert panel to conduct an ecological risk assessment of atrazine as an Endocrine Disruptor, 1997
- * **Oak Ridge National Laboratory, Environmental Sciences Division**: Oak Ridge, Tennessee
 - (1) Member Advisory Committee, 1998-2001.
 - (2) Chair Advisory Committee on Environmental Health Initiative, 2000
- * **Ontario Ministry of the Environment; Water Resources Branch**: Toronto, Ontario
 - (1) Comprehensive review of: Water Quality Criteria Development Document on Benzene and Substituted Benzenes in the Aquatic Environment. 1985.
 - (2) Laboratory Sediment Biological Testing Protocol. 1991.
- * **Ontario Pre-commercialization Business Development Fund**
 - (1) Review of proposal, 2009
- * **Organization for Economic Cooperation and Development**: Paris, France.
 - (1) Development of sediment quality criteria. 1991.
 - (2) Reviewer AOECD Guidelines for the Testing of Chemicals: Chironomid Toxicity Test Using Spiked Water, 1998
- * **Partners in Research**: Arlington, VA
 - (1) Review of Ambient Aquatic Life Water Quality Criteria for Nonylphenol". External expert for review of this proposed US EPA regulation. 1997
- * **Pharmacia & Upjohn, Inc.** Kalamazoo, Michigan (see Upjohn, Co.)
 - (1) Advisor on environmental stewardship, 1997.

- * **Prismatic Images:** Flint, Michigan.
 - (1) Educational films on fisheries and aquatic biology. 1984-1985.
- * **Proctor and Gamble, Inc.:** Cincinnati, OH
 - (1) Science advisory group on silicones in the environment. March, 1991.
- * **Research and Evaluation Inc:** Chapel Hill, N.C.
 - (1) Reviews of EPA Test Rules, Integrated Support Documents and Ad Hoc Reviews. 1985-Present.
- * **Research and Evaluation Associates Inc:** Chapel Hill, NC.
 - (1) Review of *ad hoc* document submitted to US EPA entitled "96-hr flow- through toxicity study of butylbenzyl phthalate to the freshwater crayfish, *Procambarus sp.* 1986.
- * **Residuals Management Inc.,** Madison, Wisconsin: 1982-1984.
 - (1) Fate of PCBs in Shiawassee River due to cleanup operations.
- * **City of Rochester, Michigan:** 1991-1992.
 - (1) Bioassays for waste water permitting.
- * **Risk and Decision Processes Center Philadelphia:** Philadelphia, Pennsylvania
 - (1) Review of issues in citing a hazardous waste facility. 1991.
- * **Saginaw National Watershed Initiative, 1994-Present.**
 - (1) Technical Steering Committee
- * **SETAC Foundation for Environmental Education:** Pensacola, Florida
 - (1) Chairman, Board of Directors, 1992-1993.
- * **Silicones Environmental Health & Safety Council**
 - (1) Science Advisory Group (SAG) for silicones in the environment, 1994
- * **South Florida Water Management District:** West Palm Beach, FL,
 - (1) Review of research results- "The Influence of Phosphorus on Mercury Cycling and Bioaccumulation in the Everglades". 1995

- * **Soviet All Union Scientific Research Institute for Protection of Waters:**
 - (1) Development of methodology for sediment toxicity assessment. 1988.
- * **St. Mary's College, Halifax, Nova Scotia:**
 - (1) Tenure and Promotion review, Department of Biology, 2007.
- * **State of New York, Department of Health**
 - (1) External examiner, promotion and tenure, 2004
- * **Swedish Environmental Protection Agency:**
 - (1) Prioritization of Research Topics. 1990.
- Swedish Research Council for Environment, Agricultural Sciences and spatial Planning: Stockholm**
 - (1) Review of Applications for: "Support for strong research environments". 2005
- * **Swedish Natural History Museum, Stockholm:**
 - (1) External Reviewer of the collections and research programs, 2002
 - (2) Reviewer of candidates for Professor and Director, 2007
- * **Swiss Federal Institute for Environmental Science (EAWAG), Dubdorf, Switzerland, 2003**
 - (1) Project Fishnet. Advisor to the task force investigating possible causes of declines in fish stocks in Swiss Rivers.
- * **Swiss National Research Programme:**
 - (1) Reviewer, Research Proposals, Endocrine Disruptors Programme
- * **Texas Learning Technology Group**
 - (1) Technical advisor for development of a multi-media program entitled "EcoExpert: Health Risks in Our Town". This computer-based program is to be used in public and K-12 educational programs.
- * **The Texas Institute for Advancement of Chemical Technology**
 - (1) External reviewer for Insights, V. 6 (1), 1995 "Chlorine in Perspective"
- * **Three M Corporation: Minneapolis, Minnesota. 1993-Present**

- (1) Review of environmental toxicology programs. 1993
- (2) Assessment of products for environmental fates and effects. 1993.
- (3) Corporate environmental stewardship strategic planning. 1996-2007.
- (4) Ecological Risk Assessment of products containing perfluorinated compounds. 1999-2004
- (5) Registration of perfluorinated products in the United States and Japan. 2000

* **T N & Associates, Inc.:** Cincinnati, Ohio

- (2) Acquisition and Critical Review of Literature on the Ecological Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and related Compounds on Aquatic Life and Associated Wildlife. Primary consultant on project design, data acquisition and report preparation. Contract to US EPA.

* **Trans-boundary Contaminants Work Group:** 2007-Present

A working group established by the Upper Columbia White Sturgeon Recovery Initiative (UCRWSRI) and Columbia River International Environmental Monitoring Program (CRIEMP) to investigate and prepare reports on contaminants in the Columbia River. The Committee is made up of individuals from the various state, provincial, federal, and tribal agencies as well as independent academics and consultants.

* **Transpharm, Inc.** Basel, Switzerland: 2007

- (1) Assessment of the steroidogenic properties of newly designed drugs.

* **Trent university.** Trent Ontario, Canada: 2007

- (1) Chemistry Department, Review of candidate for promotion and tenure

* **United States Conference of Mayors:**

- (1) Risk assessment of dioxins in soils due to use of urban bio-solids as a soil amendment, 1998.

* **University of Aachen, Germany**

- (1) External Examiner for Promotion, Biology Department

* **University of Aberdeen:** Aberdeen, Scotland, UK,

- (1) External promotion and tenure reviewer, 2004

- * **University of Agriculture of Malaysia:**
 - (1) External Assessor. 1990-1993.
- * **University of California:** Oakland, California
 - (1) External reviewer of grants for the Coastal Environmental Quality Initiative, 2004
- * **University of California - Davis Ecotoxicology Program**
 - (1) External Review Panel. 1994.
- * **University of California – Davis, Wildlife Health Center**
 - (1) Review grant proposals, 2001.
- * **University of California-Santa Cruz:** Santa Cruz, California
 - (1) External reviewer for promotion and tenure, 1997
- * **University of Guelph:** Guelph, Ontario, Canada
 - (1) External reviewer for Ph.D dissertation, 1997
- * **University of Prince Edward Island:**
 - (1) Promotion review, 2010
- University of Toronto:**
 - (1) External reviewer for promotion and tenure, 2004
- * **University of Turku:** Turku, Finland
- * **University of Windsor:** Windsor, Ontario, Canada
 - (1) External examiner for tenure and promotion, 2011
 - (1) External examiner for PhD dissertation, 2006
- * **University of Wyoming:** Laramie, Wyoming
 - (1) External promotion and tenure reviewer, 2004
- * **Upjohn, Corp.,** Kalamazoo, MI. 1993-Present

- (1) Environmental monitoring for organic and inorganic contaminants in water recharge system. 1993
 - (2) Monitoring for octachlordibenzo-p-dioxin in soil and groundwater. 1994
 - (3) Sediment toxicity assessment of several plants in Michigan Maryland and Virginia. 1994-1995
 - (4) Monitoring for concentrations of organic compounds in fishes from surface waters adjacent to production facilities. 1994-1995
 - (5) Expert witness in defense in litigation relative to PCB contamination of the Kalamazoo River. Depositions and testifying witness.
- * **U.S. Army Corps of Engineers:** Buffalo District Office.
- (1) Design of program for monitoring of residues leaching from contained dredge material disposal sites in Buffalo Harbor, 1987.
- * **U.S. Dept. Interior, National Sea Grant Program:**
- (1) Scientific panel to review Chesapeake Bay Toxics Research Program. 1992.
- * **US Dept. Agriculture, Agricultural Systems Program:**
- (1) Review of proposals to the National Research Initiative Competitive Grants Program. Annually 1998-2004
- * **US Dept. Agriculture, Animal Growth and Nutrient Utilization Program:** Washington, DC
- (1) External reviewer of research proposals, 2004
- * **U.S. EPA Office of Research and Development:**
- (1) Review of core research program. Chair person of SETAC *ad hoc* review committee.
- * **U.S. Environmental Protection Agency/U.S. Department of Justice:** Washington, D.C.
- (1) Expert witness, United States of America against Petro Processors of Louisiana, Inc. Toxic waste site litigation, 1983. Background information, case development and testimony as aquatic toxicologist.
 - (2) Office of Waste Programs Enforcement. Enforcement Case Support Expert Resources Inventory System. Clement Associates, Inc. Arlington, VA 1984-Present.
- * **U.S. Environmental Protection Agency:** Washington, D.C.

- (1) Hudson River PCB Site Reassessment Committee, 1991.
- (2) Amphipod bioassay workshop, 1991-1992.
- (3) Sediment Quality Criteria Workshop, 1992-Present.
- (4) Water Quality Criteria for Metals, 1993-present.
- (5) Aquatic Risk Assessment and Risk Mitigation. Dialogue group for Pesticides. 1993. 17 member task force to develop procedures for assessing the hazard of pesticides to aquatic ecosystems. **-Invited Delegate**
 -Member Steering Committee
- (6) Peer review panel workshop "Ecological Risk issues concerning 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Minneapolis, MN, Sept. 14-15, 1993. **Invited Delegate**
- (7) Program Review, Bioassessment Program, Environmental Research Laboratory-Cincinnati, OH, Sept. 7-8, 1994. **Chairperson**
- (8) Peer Review, *Ecological Risk Assessment*, Risk Assessment Forum, US EPA. Alexandria, VA , August 16-18, 1994.
- (9) Acquisition and Critical Review of Literature on the Ecological Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and related Compounds on Aquatic Life and Associated Wildlife. Primary consultant on project design, data acquisition and report preparation. Contract to US EPA, 1998.
- (10) Peer review panel for "Dioxin Reassessment-Wildlife", 1998.

Preparation of a briefing document for the interagency working group in support of the UNEO Global POPs treaty. "Organochlorine Residues in and Their Effects on Fish and Wildlife of the North American Great Lakes", John P. Giesy, Paul D. Jones, Kurunthachalam Kannan and Alan L. Blankenship

- (10) Promotion review Athens Georgia Laboratory, 2011
- (11) Promotion review Duluth, Mn Laboratory, 2012

US Environmental Protection Agency: Reviewer of ACE model Acute to Chronic Estimation (Version 2.0), 2003

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U.S. Environmental Protection Agency, Science Advisory Board: Washington, D.C.

Chartered member of the Executive Committee, 2008-2014

- (1) Ecological Processes and Effects Committee: Sediment Quality Guidelines for Metals in Sediments, 1999.
 - (2) Ecological Processes and Effects Committee: Aquatic Life Criteria for Water-Metals, 1999.
 - (3) Ecological Processes and Effects Committee: Ecological Soil Screening Levels for Superfund Sites, 1999.
 - (4) Committee on Science Integration for Decision Making, 2009, 2010
 - (5) Scientific and Technological Achievement Awards Committee, 2009, 2010, 2011, 2012
- * **U.S. Environmental Protection Agency, Environmental Fate and Effects Branch, Office of Pesticide Programs, Science Advisory Panel:** Washington, D.C.
- (1) Ecological Committee on FIFRA Risk Assessment Methods (ECOFRAM), 1999
- * **U.S. Environmental Protection Agency Environmental Biology Review Panel of the Exploratory Research Program, Office of Research and Development.** Review of proposals submitted to the program, including traveling to the Study Panel Meetings.
- (1) 1984 - Dallas, TX.
 - (2) 1986 - Duluth, MN.
 - (3) 1989 - Las Vegas, NV.
 - (4) 1990 - Tempe, AZ.
 - (5) 1991 - Knoxville, TN.
 - (6) 1991 - Sarasota, FL.
 - (7) 1994 - Washington, DC.
- * **U.S. Fish and Wildlife Service, Great Lakes Fisheries Laboratory:** 1982-Present.
- (1) ATP analysis in fish eggs, effects of xenobiotics on fish eggs; trace metal speciation.
 - (2) Review of Technical Document on Toxicity of Metals of Fishes. 1992.
- * **VCI (Verband Der Chemische Industrie Deutschland):** Frankfurt, West Germany, 1988.

- (1) Development of systems to rank hazardous materials, based on probable toxicity, carcinogenicity, teratogenicity and persistence in the environment. Including terrestrial and aquatic organisms and plants. QSAR techniques were used. 1988.
 - (2) Selection and implementation of models to predict the fate of organic compounds in aquatic systems. Design of pond studies to evaluate the models, including sensitivity analyses. 1988.
- * **Verasa, Inc.** (For US EPA), 2002
- (1) Review of document entitled “Estimating Bioaccumulation Factors for Dioxins and Related Compounds”.
- * **Versar, Inc., Springfield VA.**
- (1) Review of the US EPA document entitled “Framework for Applications of the Toxicity Equivalence Methodology for Polychlorinated Dioxins, Furans Biphenyls and Ecological Risk Assessment”. 2003
- * **Wageningen Agricultural University:** Wageningen, The Netherlands
- (1) Program Review for Ecotoxicology, May 1999.
- * **Warren Waste to Energy Inc: Warren, MI:** 1984.
- (1) Assessment as Release of Metals from Fluidized Bed Incineration of Municipal Waste for Energy Recovery from Waste. Permitting With: State of Michigan.
- * **Wildlife International Ltd:** St. Michaels, MD.
- (1) Development of Protocol for Multi-species Testing for the Effects of Pyrethroid Insecticides on Aquatic Organisms. 1985.
- * **World Health Organization Advisorships**
- (1) Development of Toxic Equivalency Factors of polychlorinated dibenzo-*p*-dioxins (PCDDs, polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs) for fish, birds and mammals: 1996-1999.
 - (2) Global Assessment of the State-of-the-Science of Endocrine Disruptors. United Nations Environment WHO Program and International Programme on Chemical Safety: 1998.
- * **W.W. Engineering & Science.** Grand Rapids, MI, 1994
- (1) Review of report on sediment toxicity assessment for St. Mary's River, Michigan.