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- MS-508 Yapura, M.J., R.J. Mapletoft, R. Pierson, J. Singh, J. Naile, M. Hecker, E. Higley, H. Chang, J.P. Giesy, and G.P. Adams. 2010. Effects of a Non-steroidal Aromatase Inhibitor on Ovarian Function in Cattle. (Submitted)
- MS-509 Yapura, M.J., R.J. Mapletoft, R. Pierson, J. Singh, J. Naile, M. Hecker, E. Higley, H. Chang, J.P. Giesy, and G.P. Adams. 2010. (Submitted).

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- (SP-2) Bedford, K., A. Carlson, A. El Shaarawi, J. Giesy, A. Mudrock, M. Munawar, T. Reynoldson, K. Simpson and R. Thomas. 1987. Recommended Methods for Quantitative Assessment of Sediments in Areas of Concern. Chapter 6 In: ***Guidance of characterization of toxic substances problems in areas of concern in the Great Lakes Basin.*** pp. 123-160. International Joint Commission, Great Lakes Water Quality Board, Surveillance Work Group, Windsor, Ontario. 179 p.
- (SP-3) O'Connor, D. V., J. P. Giesy and W. H. Berlin. 1987. ***Comparative Condition and Survival of Fry Hatched From Eggs and Lake Michigan Lake Trout.*** Research completion report. U.S. Fish and Wildlife Service Technical Report No.
- (SP-4) Beland, P., T. Colborn, G. Fox, J. Giesy, A. Gillman, J. Hesse, T. Kubiak and D. Piekarz. 1989. Report of Work Group on Environmental and Wildlife Toxicology. In: Flint, R. W. and J. E. Vena (Eds.) ***Evaluating Risks to Human Health Associated With Exposure to the Chemicals in the Great Lakes Basin Ecosystem.*** State University of New York at Buffalo, Buffalo, NY. 267p.
- (SP-5) Giesy, J. P. 1990 SETAC: ***Part of the Solution or Part of the Problem?*** Editorial. *Environ. Toxicol. Chem.* 9-1327-1330.
- (SP-6) Bowerman, W. W. and J. P. Giesy. 1991. ***Ecology of Bald Eagles on the Au Sable, Manistee, and Muskegon Rivers.*** Final Report to Consumers Power Co, Jackson, MI.

- (SP-7) Hill, I.R., P., Matthiessen and F. Heimbach (Eds.). *Guidance Document on Sediment Toxicity Tests and Bioassays for Freshwater and Marine Environments*. Society of Environmental Toxicology & Chemistry-Europe. From the "Workshop on Sediment Toxicity Assessment, Held at Slot Mermond Congress Centrum, Renesse, The Netherlands, 8-10, November, 1993. 105 p.
- (SP-8) US EPA. 1994. *Workshop on the Use of Available Data and Methods for Assessing the Ecological Risks of 2,3,7,8-Tetrachlorodibenzo-p-dioxin to Aquatic Life and Associated Wildlife*. Risk Assessment Forum, U.S. Environmental Protection Agency, Washington, D.C. EPA/630/R002/May 1994, 412 p.
- (SP-9) SETAC. 1994. *Pesticide Risk and Mitigation*. Final Report of the Aquatic Risk Assessment and Mitigation Dialogue Group. Society of Environmental Toxicology and Chemistry, Pensacola Florida, 220 p.
- (SP-10) Giesy, J.P. 1995. Review of Risk Integration Methods pp.E-171-178. *In: Report on Ecological Risk Assessment Issue Papers , Proceedings of the Peer Review Workshop*. Risk Assessment Forum, Report No. EPA/630/R-94/008 US EPA, Washington, D.C.
- (SP-11) Giesy, J.P., 1995. Acute and Long-Term Reproductive Effects of Organochlorines on Aquatic Species. pp. 508-512. *In: Chlorinated Organic Chemicals -Their Effect on Human Health and the Environment, Proceedings of a Symposium held in Berlin, Germany, September 19-21*. Toxicology Forum, Washington, D.C.
- (SP-12) Solomon, K.R., D.B. Baker, K.R. Dickson, J.M. Giddings, J.P. Giesy, L.W. Hall, jr., S.J. Klanie, T.W. LaPoint, R.P. Richards, C. Weisskopf, W. M. Williams and R.J. Kendall. 1995. *Ecological Risk Assessment of Atrazine in North American Surface Waters*.Ciba Crop Protection, Greensboro, North Carolina. 234 p.

- (SP-13) Besser, J.M. and J.P. Giesy. 1995. *Assessment of Sediment Quality in the Elizabeth Park Marina and Trenton Channel of the Detroit River, November, 1993*. Submitted to the Michigan Department of Natural Resources, Surface Water Quality Division, Remedial Action Unit, Lansing, Michigan and US Environmental Protection Agency, Great Lakes National Program Office, By Aquatic Toxicology Laboratory, Department of Fisheries & Wildlife, Michigan State University.
- (SP-14) Bowerman, W.W., L.L. Williams, LL Feyk and J.P. Giesy. 1995. *Use of Bald Eagles as Ecosystem Monitors of Great Lakes Water Quality*. Final Report to the Protection Fund for Grants Nos. RE792-3029-1 and RM791-3054/4, by Aquatic Toxicology Laboratory, Department of Fisheries & Wildlife, Michigan State University.
- (SP-15) Henderson, R., M.W. Bell, J.F. Borzelleca, E.H. Clark, E. A.C. Crouch, J.P. Giesy, P. B. Ryan, J.N. Seiber, and C.C. Travis. 1999. Report of the Committee on Risk Based Criteria for Non-RCRA Hazardous Waste. National Research Council, Washington, DC.
- (SP-16) Kendall, R.J., L.B. Best, J.R. Coats, K.R. Sixon, J.P. Giesy, M.J. Hooper, E.E. Kenaga, S.T. McMurry and K.S. Solomon. 1998. Terrestrial Ecological Risk Assessment of Chlorpyrifos Use in Corn Agroecosystems. Dow AgroSciences, Inc. Zionsville, IN.
- (SP-17) Giesy, J.P., K.R. Solomon, J.R. Coats, K.R. Dixon, J. Giddings and E.E. Kenaga. 1999. Ecological Risk Assessment of Chlorpyrifos in North American Aquatic Environments. Dow AgroSciences, Inc. Zionsville, IN.
- (SP-18) Giesy, J.P., S. Dobson and K. Solomon. 1999. Ecological Risk Assessment for Roundup Herbicide, Monsanto Chemical Co, St. Louis, MO.
- (PR-19) Rocky Mountain Arsenal (RMA) Biological Advisory Committee Subcommittee. 2001. Dioxin/Furan Tier I Field Study Results in Wildlife Tissues. 56 p.

FEATURE MAGAZINE ARTICLES:

- (1) "Seeking a Measure of Safety". About J. P. Giesy research programs. *Futures*; Summer, 1986, MSU Experiment Station.

PUBLISHED REPORTS:

Progress and completion reports are required for all funded projects and are not listed here. Some reports undergo technical review and subsequently are published as documents, which are circulated publicly or are available from the agency. These reports are listed in this section.

- (PR-1) Giesy, J.P., H.J. Kania, J.W. Bowling, R.L. Knight, S. Mashburn and S. Clarkin. 1979. *Fate and Biological Effects of Cadmium Introduced into Channel Microcosms*. EPA Ecological Research Series. Environmental Protection Agency, Environmental Research Laboratory, Athens, GA, EPA-600/3-79-039, 157 p.
- (PR-2) Giesy, J.P., S.M. Bartell, P.F. Landrum, G.J. Laversee, J.W. Bowling, M.G. Bruno, T.E. Fannin, S. Gerould, J.D. Haddock, K. LaGory, J.T. Oris and A. Spacie. 1983. *Fates and Biological Effects of Polycyclic Aromatic Hydrocarbons in Aquatic Systems*. U.S. EPA - PB-83-250 191-226 p.
- (PR-3) Giesy, J.P., S.M. Bartell, P.F. Landrum, G.J. Laversee and J.W. Bowling. 1983. *Fates and Biological Effects of Polycyclic Aromatic Hydrocarbons in Aquatic Systems*. Project Summary. U. S. EPA-600/53-83-053. 5 p.

- (PR-4) Giesy, J.P. and R.A. Hoke. 1988. *Toxicity of Sediment from Western Lake Erie and the Maumee River at Toledo, Ohio, 1987*. US Army Corps of Engineers, Buffalo District Office, Buffalo, NY. 77 p.
- (PR-5) Giesy, J.P. 1988. Detroit River Sediment Toxicity. In: *Integrated Study of Exposure and Biological Effects of In-Place Pollutants in the Upper Connecting Channels: Interim Results*. R. G. Kreis (ed.) U.S. EPA Office of Research and Development Environmental Research Laboratory - Duluth Minnesota, Large Lakes Research Station - Grosse Ile, Michigan.
- (PR-6) Tillitt, D.E., G.T. Ankley, J.P. Giesy and N.R. Kevern. 1988. *H4IIE Rat Hepatoma Cell Extract Bioassay-Derived 2,3,7,8-Tetrachlorodibenzo-p-dioxin equivalents (TCDD-EQ) from Michigan Waterbird Colony Eggs, 1986 and 1987*. Michigan Department of Natural Resources, Toxic Substances Control Commission, Lansing, MI. 63 p.
- (PR-7) Williams, L.L., J.P. Giesy, N. DeGalan, D.A. Verbrugge, D.E. Tillitt and G.T. Ankley. 1989. *Size and Seasonal Variations of PCBs in Chinook Salmon (Oncorhynchus tshawytscha) Fillets from Lake Michigan, USA*. MSUATL-1989-1, Michigan State University, E. Lansing, MI. 53 p.
- (PR-8) Tillitt, D. E., G. T. Ankley, J. P. Giesy and N. R. Kevern. 1989. *The use of the H4IIE rat hepatoma cell assay for the calculation of 2,3,7,8-tetrachlorodibenzo -p-dioxin equivalents in environmental samples*. U.S. Fish and Wildlife Service/U.S. Dept. Interior. Cooperative Agreement 14-6-0003-87-943, 43p.
- (PR-9) Giesy, J. P., R. A. Othoudt, K. R. Grzyb, D. A. Verbrugge, R. A. Hoke and J. B. Drake. 1989. *Evaluation of the effects of storage time on the toxicity of sediments*. U.S. Army Corps of Engineering, St. Paul District Office, U.S. Department of Defense, MSUATL-2989-2, Michigan State University, E. Lansing, MI, 106p.

- (PR-10) Giesy, J.P., R.A. Hoke and J.B. Drake. 1990. *Assessment of the toxicity of the sediment of Clear Creek, Colorado*. Michigan State Aquatic Toxicology Laboratory, E. Lansing, MI. MSUATL-1990-1, 28p.
- (PR-11) Bath, A. J., W. W. Bowerman, J. C. Reedy, J. M. Stout, C. J. Lovell, T. G. Grubb and J. P. Giesy. 1993. *A Study of bald eagles on the Lower Tippy Project in Relation to Stronach Dam; Management Options*. MSUATL - 1993-1. 51p.
- (PR-12) Giesy, J.P. 1990. An Enzyme Induction Bioassay Technique. In: M. Mac (Ed.) *Proceedings of the Round Table on Contaminant-Caused Reproductive Problems in Salmonids*, Windsor, Ontario. Sept. 24-25, 1990.
- (PR-13) Bowerman, W.W., D.A. Best, T.J. Kubiak, M.S. Martell, S. Postupalsky and J.P. Giesy. The use of blood plasma to measure environmental contaminants in bald eagle populations of the Laurentian Great Lakes, North America. In: M. Gilbertson (Ed.) pp.12. **Proceedings of the Third Expert Consultation Meeting on Bald Eagles in the Great Lakes Basin**. Windsor, Ontario, February 25-26,1992.
- (PR-14) Delzell, E., J. Doull, J.P. Giesy, D. Mackay, I.C. Munro G.M. Williams and R.F. Willis. 1993. *Interpretive Review of the Potential Adverse Effects of Chlorinated Organic Chemicals on Human Health and the Environment: Introduction and Methods, Report of an Expert Panel*. Chlorine Institute, Washington, D.C.
- (PR-15) Carey, J., P. Cook, J. Giesy, P. Hodson, D. Muir, W. Owens and K. Solomon (Eds.) 1996. *Ecological Risk Assessment of the Chlorinated Organic Chemicals*

- (PR-16) Giesy, J.P., K.R. Solomon, J.R. Coats, K. Dixon, J. Giddings and E. Kenaga. 1998. Ecological Risk Assessment for Chlorpyrifos in North American Aquatic Environments. Report of an Expert Panel to DowElanco, Indianapolis, IN. ENTRIX, Inc., 202 p.
- (PR-17) Kendall, R.J., L. Best, J. Coats, K. Dixon, J.P. Giesy, M. Hooper, G. Kenega, S. McMurry and K. Solomon. 1998. Terrestrial Ecological Risk Assessment of Chlorpifos Use in Corn Agro-ecosystems. Report of an Expert Panel to DowElanco, Indianapolis, IN. ENTRIX, Inc.
- (PR-18) Kendall, R.J., J.P. Giesy, K.R. Solomon, T.B. Hayes, J.W. Simpkins, T.S. Gross, J.A. Carr and E.E. Smith. A Risk-Based Assessment of Endocrine System Responses in Fish, Amphibians and Reptiles to Atrazine. Report of an Expert Panel to Novartis, Inc. Ecorisk, Inc. 149 p.
- (PR-19) Rocky Mountain Arsenal (RMA) Biological Advisory Committee Subcommittee. 2001. Dioxin/Furan Tier I Field Study Results in Wildlife Tissues. 56 p.
- (PR-20) Solomon, K.R., J.A. Carr, J.P. Giesy, T.S. Gross, R.J. Kendall, E.E. Smith, and G. Van Der Kraak. 2002. Endocrine System Responses in Fish, Amphibians, and Reptiles to Atrazine: Assessment of an Expert Panel. 55 p.
- (PR-21) Wu, R., P. Shin, D. Randall, P. Lam, D. Au, P. Ang, B. Morton, J. Gray, J. Giesy, D. Holdway, K. Kloop, J. Chapman, M. Warne, R. Russo and D. Phillips. 2002. Development of a Biological Indicator System for Monitoring Marine Pollution. Hong Kong Environmental Protection Department.
- (PR-22) Giesy, J.P., P.D. Jones, K. Kannan and A.L. Blankenship. 2002. Organochlorine Residues and Their Effects on Fish and Wildlife of the North American Great Lakes. Chapter 3, pp 3-1-3-15 in The Foundation for Global Action on Persistent Organic Pollutants: A United States Perspective. U.S.

Environmental Protection Agency, Office of Research and Development,
Washington D.C., EPA/600/P-01/003F, NCEA-I-1200.

(PR-23) Jones, P.D., K. Kannan, A.L. Blankenship and J.P. Giesy. 2002. Accumulation and Effects of Persistent Organic Pollutants in Marine Ecosystems and Wildlife. Chapter 6, pp. 6-1-6-17 in The Foundation for Global Action on Persistent Organic Pollutants: A United States Perspective. U.S. Environmental Protection Agency, Office of Research and Development, Washington D.C., EPA/600/P-01/003F, NCEA-I-1200.

(PR-24) Implementing the Stockholm Convention on Persistent Pollutants: Summary of a Workshop in China. Series: Strengthening Science Based Decision Making in Developing Countries. The National Academy Press, Washington, D.C., USA. 32p.

ABSTRACTS READ:

* **American Association for the Advancement of Science:**

(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**

(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 Diaromatic 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.

* **American Chemical Society-Great Lakes Regional Chapter**

- (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) “Atrazine and Amphibians:Lessens 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) "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:**

- (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:**

- (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) "The Use of Artificial Ecosystems in Ecological Research." National Meeting, November, 1977. Atlanta, Georgia. *Invited*.

* **American Society of Limnology and Oceanography:**

- (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. Leverage and D. R. Williams. 41st Annual Meeting. 1978.
- (5) "Metal Binding Capacity of Selected Maine Surface Waters." With L. A. Brieseman. 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. Laversee, 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):**

- (1) "Benzo(a)pyrene Kinetics in Several Laboratory Microcosms. 4th ASTM Symposium on Aquatic Toxicology." With G. S. Laversee, 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. Laversee. 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.
- (7) "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) "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):**

- (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:**

- (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. Leversee and R. D. Bingham. Annual Meeting, Tuscaloosa, AL. 1978.

* **Beta Beta Beta, Alma College Chapter:**

- (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) "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:**

- (1) "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*

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

* **Chesapeake-Potomac Regional Chapter of SETAC:**

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

* **Colonial Waterbird Society.**

- (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:**

- (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:**

- (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. Briese. 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. Briese. 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) "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*.

* **Federation of American Scientists for Experimental Biology:**

- (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**

- (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. Geological Society of America. Annual Meeting, Denver, CO, October 28-31, 2007.

* **Georgia Fisheries Workers:**

- (1) "Adenylate Energy Charge as an Indicator of Stress in Invertebrates." 1979. *Invited.*

* **Indiana Academy of Science:**

- Annual Meeting, South Bend, IN, Nov. 1988.

* **International Association for Great Lakes Research:**

- (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-IIIE 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 *Hyalella 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:**

- (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) "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:**

- (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. Kevers. Second International Congress, Birmingham, England, July, 1984.

* **International Society for Ecotoxicology and Environmental Safety: 1985-Present.**

- 10th Biennial International Symposium on Chemical and Toxicology Aspects of Environmental

Quality. November, 1987, Munich, Germany.

* **International Society of Theoretical and Applied Limnology:**

- 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) "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) "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:**

- (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) "Bald Eagles in Michigan". Annual Meeting, May 1-3, 1992, Hillsdale, Michigan *Invited.*

* **Michigan Occupational and Environmental Medicine Association.**

- (1) "Concentrations of Synthetic Compounds in and their Effects on Fish-Eating, Colonial Water Birds of the Great Lakes". Annual Conference, June 11-12, Dearborn, Michigan. *Invited, Plenary*

* **Michigan Society for Risk Assessment.**

- (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) "Sediment Toxicity Assessment in the Great Lakes". Annual Meeting, Chicago, IL, April, 1990. *Invited.*

* **New England Estuarine Research Foundation:**

- (1) "Cadmium Toxicity to the Cladoceran *Simocephalus* in Humic vs. Non-humic Fresh Waters." Woods Hole, MA., October, 1976.

* **North American Benthological Society:**

- (1) "Uptake and Depuration Kinetics of a Polycyclic Aromatic Hydrocarbon in *Chironomus riparius*." With S. Gerould, G. Laversee 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):**

- (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. Briese. 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. 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 *Hyalella Azeteca*." 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 Voyagers 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. Koisitnen, T.J. Sandrson, 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. McMurry 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 Naphthalenes (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 Naphthalenes (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. Villeneuve, 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 Naphthalenes 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. Villeneuve, 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 Naphthalenes 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- Naphthalenes, -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 Naphthalenes (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) “Relative Potencies of Individual Polychlorinated Naphthalenes 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-Naphthalenes, -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. Zwiernik, 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. Zwiernik, 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. nam 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. Sepulved 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. Ruesser, 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) “Megaloptera 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 Tiver, 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. Nested. 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 of 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. Khim, 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. Holem, 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, WS.
- (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, WS.
- (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, WS.
- (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, WS.
- (252) “The Consequences of Structure on Ecotoxicological Profiles of Pefluoroalkyl Acids (PFAs): A Review”. With J.L. Newsted. To: 28th Annual Meeting, November 11-15, 2007, Milwaukee, WS.
- (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. Coefield, 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, WS.

- (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, 2009, 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, 2009, 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, 2009, 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, 2009, 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 (*AHRI*) 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, 2009, 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, 2009, 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. Holem, D.P. Kay, S.A. Roark, and J.L. Newsted. To: 29th annual meeting, November 16-21, 2009, 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, 2009, 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, 2009, 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, 2009, 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, 2009, Tampa, FL.
- (275) “Effects of Selected Metals on Early White Sturgeon (*Acipenser transmontana*) 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, 2009,, 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, 2009, 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, 2009, 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, 2009, 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, 2009, 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).” With 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, 2009, 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, 2009, 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, 2009, 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, 2009, 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, 2009, 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, 2009, 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, 2009, 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, 2009, New Orleans, LA.
- (288) “Effects of Upper Danube River Sediments on Steroidogenesis 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, 2009, 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.. o: 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. Zwiernik, 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/DFs 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.

* **SETAC-Europe.**

- (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.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-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. Holoubek 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. Slocumb. 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. Vykonalova, 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. Janosek, L. Blaha, K. Hilscherova 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. Mazurova, L. Blaha, K. Hilscherova, 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. Hilscherova, 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. Triebkorn. 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 in Rivers. 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 from Localities 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, J.P. Giesy, M. Hecker, H. Schuttrumt, 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, J.P. Giesy, 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.P. Giesy, 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 Han, G. Timm, J.P. Giesy. 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, J.P. Giesy, 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, P. Macikova, J.P. Giesy. 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, J.P. Giesy, 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, J.P. Giesy, 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, J.P. Giesy, 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, J.P. Giesy, 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, J.P. Giesy, M. Hecker, A. Brouwer, P. Behnisch, J. Pinnekamp, H. Hollert. To: SETAC Europe 20th Annual Meeting, May 23-27, 2010, Seville, Spain.

* **SETAC-Europe, Russian Division:**

- (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:**

- (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, 3rd.-5th September in Landau, Germany.

* **SETAC-Europe, United Kingdom Division:**

- (1) “Endocrine Disruptor Mechanisms: Beyond Receptor Binding”. To Annual meeting, September 8-10, 2003, Aberdeen, Scotland. Invited Plenary Keynote.

* **SETAC-Asia-Pacific:**

- (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, Wenye 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 Ehters 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, KH 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 Ohio Valley Regional Chapter**

- (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”. 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, EK.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**

- (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”. E. Higley S. Grund, B.T.

Seiler, U.L. Varel, W. Brack, T. Schulz, J.P. Giesy H. Hollert, and M. Hecker.
To: Annual meeting June 11, 2010, Saskatoon, SK.

* **Society of Toxicology:**

- (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-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* Nanoinjection: 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. Trosco. 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:**

- (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) "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) "Toxicity Testing to Meet NPDES Permit Requirements." Section 7 Regional Chapter Meeting, February, 1991.

* **Wildlife Disease Association:**

- (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) "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:

- (1) "Effects of Dissolved Organics Isolated from Surface Waters, on Availability of ²⁴¹Am 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, Karlsruhe, Germany.

(86) "Workshop on Aquatic Life Criteria for Metals". January 25-29, 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 Dibenzop-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 Organics 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 ***Endocrine 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, Jekyll 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, Jekyll 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: PITTCON >98, March 1-5, 1998, New Orleans, LA.

(155) “Methods for Assessing the Effects of Endocrine Disrupters 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” , microsposium 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 Organohalogens (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). Decenber 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 Napthalene Mixtures after Embryonic Exposure by *in ovo* Nano-injection: 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 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: 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.

Session Chairperson Environment, Wildlife and Water as Factors that Determine Food Safety

- (212) “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

- (213) “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

- (214) “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*

- (234) “Food Chanin 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.
- (235) “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.
- (236) “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*
- (237) “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*
- (238) “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*.
- (239) “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, Lituania.
- (240) “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.
- (241) “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.

- (242) “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.
- (243) “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
- (244) “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
- (245) “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.
- (246) “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.
- (247) “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.
- (248) “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.
- (249) “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.

- (250) “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.
- (251) “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.
- (252) “Molecular Bioindicators”. To: Workshop on Bioindicators of Environmental Management. City University of Hong Kong, December 12-14, 2003, Hong Kong, China.
- (253) “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.
- (254) “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.
- (255) “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.
- (256) “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.
- (257) “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.

- (258) “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***.
- (259) “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***
- (260) “Molecular Biomarkers of Steroidogenesis” To: 4th International Conference on Marine Pollution and Ecotoxicology, June 1-5, 2004, Hong Kong, China. ***Invited, Keynote***
- (261) “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***
- (262) ”In vitro dioxin-like potencies of N-heterocyclic PAH”. With I. Sovadinová, R. Vykonalová, 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.
- (263) “Evaluating Great Lakes Bald Eagle Nesting Habitat with Bayesian Inference”. With To: 3rd International Wildlife Management Congress, December 1-5, 2003, New Zealand.
- (264) “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.
- (265) “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***
- (266) “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.
- (267) “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*
- (268) “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.
- (269) “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.
- (270) “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*
- (271) “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.
- (272) “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*
- (273) “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*
- (274) “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.
- (275) “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.

- (276) “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***
- (277) “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.
- (278) “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.
- (279) “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***.
- (280) “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.
- (281) “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.
- (282) ”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***.
- (283) “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***
- (284) “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.

- (285) "Monitoring of Perfluorinated Compounds in Human Breast Milk from Zhoushau, 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.
- (286) "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.
- (287) "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.
- (288) "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.
- (289) "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.
- (290) "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.
- (291) "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.
- (292) "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.
- (293) "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.

- (294) “Pefluorinated 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.
- (295) “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***
- (296) “Activation of AH Receptor by Hunic Substances”. With M. Bittner, J. Janošek, L Bláha, K. Hilscherová, I. Holoubek. To: World SECOTOX Conference, September 5-7, 2005, Brno, Czech Republic.
- (297) “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.
- (298) “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, Sandy, 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) “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.
- (310) “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.
- (311) “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.

- (312) “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.
- (313) “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.
- (314) “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.
- (315) “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.
- (316) “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.
- (317) “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.
- (318) “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.

- (319) "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.
- (320) "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***
- (321) "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***
- (322) "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***
- (323) "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.
- (324) "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.
- (325) "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***
- (326) "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.
- (327) "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.***
- (328) "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.***

- (329) “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.***
- (330) “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.***
- (331) “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.
- (332) “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.***
- (333) “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.***
- (334) “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.***
- (335) “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.***
- (336) “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.
- (337) “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.

- (338) “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.
- (339) “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.
- (340) “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.
- (341) “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.
- (342) “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.
- (343) “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.
- (344) “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.
- (345) “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.

- (346) “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.
- (347) “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.
- (348) “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.
- (349) “Sensitivity of early white sturgeon (*Acipenser transmontana*) 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.
- (350) “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.
- (351) “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.
- (352) “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.
- (353) “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.
- (354) “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.
- (355) “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.

- (356) "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.
- (357) "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.
- (358) "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***
- (359) "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.
- (360) "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.
- (361) "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.
- (362) "Development of the medaka HPG model for molecular toxicology" With D. Au, X. Zhang, A. Tomsett, 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***
- (363) "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
- (364) "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.
- (365) "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, Barcelona, Spain.

- (366) "Anthropogenic and Naturally Occuring 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*
- (367) "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.
- (368) "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.
- (369) "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.
- (370) "Construction of a Suppression Subtractive Hybridization (SSH) Library for the Marine *Medaka Oryzias melastigma* Challenged with *Vibri parahaemolyticus*." With J. Bo, G. Claireaux and D.W. Au. To: 6th International Conference on Marine Pollution, May 31 – June 3, 2010, Hong Kong.
- (371) "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.

INVITED LECTURES:

- (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, Rujer Boskovic 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) (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 Lufthygiene 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 Sprodowiska 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 Polychlorodiaromatic 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, Palmerson 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 Napthalenes (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 Ocean ography, 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 Pocheftroom, Pocheftroom, 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: Honk 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, Masarek University, Brno, Czech Republic, October 8, 2003.

- (171) “Endocrine Disruptors in the Environment-Bioanalytical Tools for Assessment”, To: Department of Environmental Toxicology, Masarek 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 Perfluorooctane Sulfonate”. 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. ***Invited***
- (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, Hon 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, March 12, 2010, University of Saskatchewan.
- (222) “Eco-Toxicological Evaluation of Perfluorooctane Sulfonate (PFOS) in the Environment”. To: Department of Biology, University of Regina, September 10, 2010.
- (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.

