

Curriculum Vita

DEBORAH L. SWACKHAMER

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EDUCATION

- 1976 A.B. in Chemistry, Grinnell College, Grinnell, Iowa.
1981 M.S. in Water Chemistry, University of Wisconsin, Madison, Wisconsin.
1985 Ph.D. in Oceanography and Limnology, University of Wisconsin, Madison, Wisconsin.

POSITIONS HELD

- 9-76 to 8-78 Research Technician III, Immunology Program, University of Texas Health Science Center, Dallas, Texas.
8-78 to 2-85 Research Assistant, Water Chemistry Program, University of Wisconsin, Madison, Wisconsin.
3-85 to 11-86 Postdoctoral Research Associate, School of Public and Environmental Affairs and Department of Chemistry, Indiana University, Bloomington, Indiana.
12-86 to 6-92 Assistant Professor, Environmental and Occupational Health, School of Public Health, University of Minnesota, Minneapolis, Minnesota.
7-92 to 7-00 Associate Professor, Environmental and Occupational Health, School of Public Health, University of Minnesota, Minneapolis, Minnesota.
7-98 to 7-02 Director, Midwest Ecological Risk Assessment Center (MERAC)
7-00 to present Professor, Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota.
9-02 to 8-03 Research Scientist Associate, Division of Science and Collections, Science Museum of Minnesota. Stationed at the St. Croix Watershed Research Station, Marine-on-St Croix, MN.
9-03 to present Co-Director, Water Resources Center, University of Minnesota, St. Paul, MN. (currently on leave)
10-06 to present Interim Director, Institute on the Environment, University of Minnesota, Minneapolis, MN.

PROFESSIONAL ASSOCIATIONS

American Chemical Society
Royal Society of Chemistry
American Society of Limnology and Oceanography
Society of Environmental Toxicology and Chemistry
International Association for Great Lakes Research
Sigma Xi

HONORS AND AWARDS

Grinnell College Younkers Honor Scholarship 1972-76; ACS Junior Analytical Chemistry Award 1975; Grinnell College Senior Woman Alumni Award 1976; Mortar Board Society 1975-76, President Grinnell Chapter 1976; University of Wisconsin Anna Grant Birge Summer Scholarship 1984; Clean Air Award, American Lung Association of Minnesota, 1989; Faculty Excellence Award in Environmental Health, 1988-1989; Outstanding Young Women of America, 1989, Faculty Excellence Award in Environmental Health, 1999-2000; Harvey G. Rogers Environmental Leadership Award from the Minnesota Public Health Association 2007; Fellow, Royal Society of Chemistry (UK) 2007.

RECENT PROFESSIONAL ACTIVITIES

1998-2002	Chair, Committee on Drinking Water Contaminants, Water Science and Technology Board, National Research Council, National Academy of Sciences.
2000-present	Member, Science Advisory Board of the International Joint Commission of the US and Canada
2002-2007	Member and Chair, Great Lakes Environmental and Molecular Sciences Center Technical Advisory Board, Western Michigan University, Kalamazoo, MI.
2003-present	Member, Science Advisory Board of the National Undersea Research Program for the North Atlantic and Great Lakes, NOAA.
2003-2004	Fellow, Academic Leadership Program of the Commission on Institutional Cooperation.
2003-present	Member, Science Advisory Board, US Environmental Protection Agency.
2005-present	North American Editor, and Chair, Editorial Advisory Board. <i>Journal of Environmental Monitoring</i> , published by the Royal Society of Chemistry.
2005-present	Member, Editorial Advisory Board, <i>Environmental Science & Technology</i> , published by the American Chemical Society.
2006-present	Member, Board of Scientific Councilors, US Environmental Protection Agency.

- 2007-present Member, Clean Water Council for the State of Minnesota (Governor appointment).
- 2007-present Chair, US EPA Science Advisory Board review panel for the EPA's *Report on the Environment 2007*.
- 2007-present Chair, US EPA Board of Scientific Counselors subcommittee for the Mid-cycle review of the Endocrine Disruptors Research Program in the Office of Research and Development at EPA.
- 2007-present Co-Chair, Subcommittee on Exposures, Society of Environmental Toxicology and Chemistry Bioaccumulation of PBTs workshop.
- 2006-2008 Chair, Gordon Research Conference, "Environmental Sciences: Water", New Hampton, NH, June 22-27, 2008.

PEER REVIEWER:

ACS Advances in Chemistry Book Series
Aquatic Toxicology
Canadian Journal of Fisheries and Aquatic Sciences
Environmental Science & Technology
Environmental Toxicology & Chemistry
Journal of Environmental Monitoring
Journal for Great Lakes Research
Journal of the American Society for Mass Spectrometry
Journal of Microbial Ecology
Proceedings of the National Academy of Science (PNAS) – Guest Editor
Science
Science of the Total Environment

RECENT UNIVERSITY SERVICE (Campus-wide)

Chair, Search Committee for University Institutional Compliance Officer
 Member, Steering Committee for the Network of Interdisciplinary Initiatives
 Chair, Stormwater Linkage Committee
 Co-Chair, UMore Park Environment and Sustainability Task Force
 Co-Chair, Provost's Advisory Committee for the Blueprint for the Institute on the Environment
 Member, Stadium Sustainability Committee
 Instructor, Responsible Conduct of Research I module on Data Management
 Co-Chair, Academic Task for the Colleges of Agriculture, Food, and Environmental Sciences; Natural Resources; and Human Ecology

GRADUATE STUDENT MENTORING ACTIVITY

Graduated Advisees: 8 PhD, 25 MS

Current Advisees: 4 MS

Graduate Faculty Appointments: Full Member, Environmental Health, 1987-
Full Member, Water Resources Science, 1990-

Service on Graduate Student Examining Committees: 31 PhD, 51 MS

RESEARCH INTERESTS

Dr. Swackhamer has studied the processes affecting the behavior and fate of persistent organic compounds including PCBs, dioxins, and pesticides in the Great Lakes for the past 20 years, including sediment accumulation, source determinations, water column processes, and foodweb bioaccumulation. Her current research has expanded to include exposures and impacts of endocrine disruptors in aquatic systems.

GRANTS AND CONTRACTS

"Role of Physical Chemical Properties in Controlling PCB Uptake by Algae," University of Minnesota Graduate School, 12/1/86-6/30/87, \$12,000.

"Role of Physical Chemical Properties in Controlling PCB Uptake by Algae," Biomedical Research Support Grant, National Institutes of Health, 12/15/86-12/15/87, \$8,900.

"Quality Assurance Program for Sample Collection and Analyses: Green Bay Study," U.S. Environmental Protection Agency, 12/1/86-11/30/89, \$93,000.

"Role of Physical Chemical Properties in Controlling PCB Bioaccumulation in Algae," Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 10/1/86-9/30/88, \$15,000.

"Bioaccumulation of PCB and PCDF in Lake Superior Phytoplankton," Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 10/1/87-9/30/89, \$57,800.

"Concentration and Toxicity of Pesticide Metabolites in Minnesota Drinking Water," with J.B. Stevens, Biomedical Research Support Grant, National Institutes of Health, 3/1/87-3/1/88, \$26,280.

"Identification and Characterization of DNA- and Glutathione-Hydroxyquinone Adducts," Biomedical Research Support Grant, National Institutes of Health, 6/1/87-6/1/88, \$4,984.

"Comparison of Methodologies for Measuring PCBs in Particulate and Dissolved Phases in Green Bay Water," with S.J. Eisenreich, U.S. Environmental Protection Agency, 7/15/87-4/15/88, \$72,900.

"Contaminant Recycling in Lake Superior Bottom Waters by Bacteria," University of Minnesota Graduate School, 12/1/87-6/30/89, \$5,000.

"Organochlorine Compounds and Metabolites in Human Milk," Biomedical Research Support Grant, National Institutes of Health, 2/1/88-2/1/89, \$6,099.

"Pesticide Metabolites in Minnesota Groundwater," Minnesota Water Resources Research Center, U.S. Geological Survey, 7/1/88-6/30/90, \$36,246.

"Microbial Recycling of Hydrophobic Organic Compounds and Organic Carbon," National Undersea Research Program, National Oceanic and Atmospheric Administration, 6/1/88-12/31/88, \$5,019 plus ship and submersible time.

"Role of Phytoplankton in Bioaccumulation of PCBs in the Green Bay Foodchain," U.S. Environmental Protection Agency, 7/1/88-6/30/91, \$158,065.

Midwest Cooperative Park Studies Unit, Co-investigator with 37 University of Minnesota investigators, National Park Service.

"Pesticide Breakdown Products Survey," Principal Investigator, Minnesota Department of Health and Legislative Commission on Minnesota Resources, 7/1/89-6/30/91, \$330,000.

"Dioxin from Incinerator Emissions," Co-investigator with Professor S.J. Eisenreich, Minnesota Pollution Control Agency and Legislative Commission on Minnesota Resources, 7/1/89-6/30/91, \$296,000.

"Role of Phytoplankton in Contaminant Behavior in Lakes," Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 1/1/90-12/31/91, \$55,450.

"Processes Controlling HOC Recycling and Fate at the Sediment-Water Interface," Principal Investigator, National Undersea Research Program, National Oceanic and Atmospheric Administration, 4/1/90-3/31/91, \$14,984 plus ship and submersible time.

"Data Certification and Interpretation for Green Bay Mass Balance Study," Principal Investigator, U.S. Environmental Protection Agency, 7/1/90-5/30/92, \$106,074.

"PCB Sediment Trap Fluxes in Green Bay," Co-investigator with Professor S.J. Eisenreich, U.S. Environmental Protection Agency, 7/1/90-6/30/91, \$71,970.

"Microbial Recycling of Contaminants at the Sediment Water Interface in Freshwater," Principal Investigator, with Professor Randall Hicks (UM-Duluth), EPA Exploratory Research Program, 1/91-1/93, \$224,337.

"Atmospheric Deposition of Toxic Contaminants to the Great Lakes," Co-Investigator with Professors Steven J. Eisenreich and David T. Long (Michigan State University), Great Lakes Protection Fund, 1/91-1/94, \$460,354.

"Organic and Inorganic Contaminants in the Sediments and Waters of Lakes Michigan and Ontario," Co-Investigator with S.J. Eisenreich, US Environmental Protection Agency, 8/15/91-8/14/94, \$500,700.

"PCB Congener Analysis of Five Lakes in the Area of the Apostle Islands, Lake Superior," Principal Investigator, US Geological Survey, 7/1/91-6/30/92, \$22,084.

"HOC Recycling within Lake Michigan, the Role of Microbial Activity," Principal Investigator, U.S. Environmental Protection Agency, 9/1/91-8/31/93, \$105,200.

- "Dynamics of PCB Bioaccumulation and Removal by Phytoplankton," Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 2/1/92-1/31/94, \$69,600.
- "Role of Algal Lipids in Bioaccumulation in Aquatic Foodwebs", Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 2/1/94-1/31/96, \$70,470.
- "Uptake and Loss of PCBs by Phytoplankton," Principal Investigator, U.S. Environmental Protection Agency, 9/1/93 - 8/31/95, \$173,070.
- "The Role of the Benthic Nepheloid Layer in Foodchain Exposure to Toxic Chemicals," Principal Investigator with David DeVault (U.S. EPA), National Undersea Research Program, National Oceanic and Atmospheric Administration, 2/94-7/95, \$35,899 plus ship and submersible time.
- "PCB Concentrations in Algae from the Milwaukee and Manitowoc Rivers", Principal Investigator, U.S. Department of the Interior, 9/1/94 to 9/30/95, \$15,500.
- "Contaminant Transfer in the Lake Michigan Lower Pelagic Foodweb", Principal Investigator, with Prof. Ed Nater (UMN), U.S. Environmental Protection Agency, 6/13/94 to 7/13/97, \$450,000.
- "Bioavailability, Trophic Transfer and Fate of Pollutants in the Aquatic Environment," Principal Investigator (part of Consortium funded by U.S. EPA headed by Prof. Herb Allen (University of Delaware), University of Delaware, 9/15/94 to 9/15/99, \$59,768.
- "PCBs and Toxaphene in Lake Superior Fishes", Principal Investigator, MN Pollution Control Agency, 9/94-9/96, \$110,000.
- "The Role of Algal Lipids in Bioaccumulation in Aquatic Foodwebs", Principal Investigator, U.S. Department of Commerce/NOAA/Sea Grant, 2/1/95-1/31/96, \$41,071.
- "PCB Congeners in Marsh Birds in Green Bay Coastal Wetlands," Principal Investigator, U.S. Department of the Interior, National Biological Service, 7/15/95-7/14/97.
- "Effect of *Bythotrephes* on PCB Biomagnification in Salmonids," Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 2/96-1/98, \$60,140.
- "Toxaphene in the Lower Foodweb of Lake Michigan," Principal Investigator, U.S. Environmental Protection Agency, 8/97 - 8/99, \$138,867.
- "Origin of Particulate Matter and Distribution of HOC in Benthic Nepheloid Layer of Large Lakes," Co-Investigator, with Profs. Joseph Atkinson and Joseph DePinto (SUNY-Buffalo), National Undersea Research Program, National Oceanic and Atmospheric Administration, 2/96-1/97, \$28,389 plus ship and submersible time.
- "Interdisciplinary Center for Ecological Risk Assessment," Co-Principal Investigator with Prof. Ken Sexton (UMN), University of Minnesota Graduate School, 7/96-6/98, \$20,000.

- "Reducing Uncertainty in Estimating Toxaphene Loading to the Great Lakes", Principal Investigator with Prof. Ronald Hites (Indiana University), U.S. Environmental Protection Agency, 9/96-8/99, \$650,151.
- "Atmospheric and NonPoint Pollution Trends in Minnesota Lakes," Co-Investigator with Drs. Edward Swain (MN Pollution Control Agency) and Daniel Engstrom (Science Museum of Minnesota), State Legislative Commission on Minnesota Resources, 7/97-6/00, \$325,000.
- "Midwest Ecological Risk Assessment Center", Principal Investigator, University of Minnesota Graduate School, 7/98-6/00, \$100,000.
- "Effects of Environmental Estrogens on Fish in the Vicinity of Metro Treatment Plant, St. Paul", Principal Investigator with Drs. Ira Aldelman and Peter Sorensen (UMN), Metropolitan Council Environmental Services, 3/99 - 3/02, \$200,381.
- "Bioaccumulation of Hydrophobic Organic Compounds by Phytoplankton", Principal Investigator, National Science Foundation, 7/99-7/01, \$200,000.
- "The Analyses of Toxaphene and Total Organic Carbon in River Sediments", Principal Investigator, Minnesota Pollution Control Agency, 7/99-9/01, \$55,528.
- "Assessing the Validity of Vitellogenin as a Biomarker of Endocrine Disruption in Populations of Fish", Principal Investigator with Drs. Peter Sorenson, Heiko Schoenfuss, and Ira Adelman (UMN), National Sea Grant College Program, National Oceanic and Atmospheric Administration, 7/00 - 6/02, \$298,000.
- "Trends in Great Lakes Fish Contaminants", Principal Investigator, U.S. EPA Great Lakes National Program Office, 7/00 - 6/03, \$305,994.
- "Bioaccumulation of Emerging Contaminants in Lake Superior Fish", Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 2/01 - 1/03, \$37,072.
- "Microbial Facilitation of Organic Carbon and Contaminant Transfers into the Lake Superior Foodweb", Co-principal Investigator with Dr. James Cotner (UMN), Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 2/01 - 1/03, \$46,458.
- "Funding for the Gordon Research Conference in Environmental Sciences"; Principal Investigator, National Science Foundation, 4/02-3/03, \$25,000.
- "Development and Evaluation of Chemical Indicators for Monitoring Ecological Risk", Principal Investigator with Matt Simcik (UMN), a subproject for "Development of Environmental Indicators of Condition, Integrity, and Sustainability in the Great Lakes", Gerald Niemi, Principal Investigator (UMN-Duluth), U.S. EPA Star Grant, 2/01 - 1/05, \$737,853 (\$6 million total).
- "Trends in Great Lakes Fish Contaminants", Principal Investigator, U.S. EPA Great Lakes National Program Office, 9/03 - 8/05, \$299,194.
- "Postdoctoral Fellowship Program in Environmental Chemistry", Principal Investigator with Drs. Bill Arnold and Kris McNeill (UMN), Dreyfus Foundation, 7/03-6/05, \$97,000.

- “Photochemistry of Pharmaceuticals and Estrogens in Surface Waters: Persistence and Potency”, Co-principal Investigator with Drs. Kris McNeill (PI) and Bill Arnold, National Institute of Water Resources, US Geological Survey, 9/03-8/05, \$134,070.
- “Hydrophobic Organic Contaminants in Lake Michigan Water”, Co-principal Investigator with Dr. Matt Simcik (PI), U.S. EPA Great Lakes National Program Office, 9/03 - 8/06, \$400,000.
- “Environmental Estrogens: Assessing their Identity and Exposure Pathways to Fish”, Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 4/1/04-3/31/06, \$86,897.
- “Immunoaffinity: A Novel Approach for Identifying Biologically Active Environmental Estrogens in Great Lakes Coastal Estuaries”, Principal Investigator, Minnesota Sea Grant Program, National Oceanic and Atmospheric Administration, 7/05-6/07; \$75,444.
- “Estrogenic Compounds: Tracking the Generation and Partitioning in Wastewater Treatment Plants”, Co-investigator with Paige J. Novak (PI) and Michael J. Semmens, Legislative Commission on Minnesota Resources, 7/05-6/07, \$300,000.
- “Development of a Great Lakes Basin Screening Model for Emerging Chemicals”, Principal Investigator, Great Lakes Commission, 5/06-7/08, \$201,680.
- “Collaborative Research: Formation of Polyhalogenated Dioxins and Furans from Triclosan and PBDEs in Rivers”, Co-investigator with William Arnold (PI) and Kris McNeill, National Science Foundation, 5/06 – 5/08, \$260,000.
- “Statewide Conservation and Preservation Plan”, Principal Investigator, Legislative and Citizens Commission on Minnesota Resources, 1/107 – 6/30/08, \$539,000.

THESIS AND DISSERTATION

- The Recovery of PCBs in Sediments by Steam Distillation. M.S. Thesis, University of Wisconsin, Madison, Wisconsin, 1981.
- The Role of Water-particle Partitioning and Sedimentation in Controlling the Transport and Fate of PCBs in Lakes. Ph.D. Dissertation, University of Wisconsin, Madison, Wisconsin, 1985.

PUBLICATIONS

- Armstrong, D.E. and D.L. Swackhamer. 1982. Sources of PCBs to Wisconsin lakes. Water Resources Center Technical Report 82-04, University of Wisconsin, Madison, Wisconsin.
- Armstrong, D.E. and D.L. Swackhamer. 1983. PCB accumulation in southern Lake Michigan sediments: evaluation from core analysis. In: Physical Behavior of PCBs in the Great Lakes, D. Mackay, S. Patterson, S.J. Eisenreich, M.S. Simmons, eds. Ann Arbor Science Publishers, Ann Arbor, Michigan.
- Weininger, D., D.E. Armstrong, and D.L. Swackhamer. 1983. Application of a sediment dynamics model for estimation of vertical burial rates of PCBs in southern Lake Michigan. In: Physical Behavior of PCBs in the Great Lakes, D. Mackay, S.

- Patterson, S.J. Eisenreich, M.S. Simmons, eds. Ann Arbor Science Publishers, Ann Arbor, Michigan.
- Swackhamer, D.L. and D.E. Armstrong. 1986. Estimation of the atmospheric and non-atmospheric contributions and losses of PCBs to Lake Michigan based on sediment records of remote lakes. *Environ. Sci. Technol.* 20, 879-883.
- Armstrong, D.E., J.P. Hurley, D.L. Swackhamer, and M.M. Shafer. 1987. Role of particle-mediated processes in controlling the chemical composition of Crystal Lake. In: Sources and Fates of Aquatic Pollutants, Advances in Chemistry Series 216, R.A. Hites and S.J. Eisenreich, eds.
- Swackhamer, D.L. and D.E. Armstrong. 1987. The distribution and characterization of PCBs in Lake Michigan water. *J. Great Lakes Res.* 13, 24-36.
- Swackhamer, D.L. M.J. Charles, and R.A. Hites. 1987. The quantitation of toxaphene in environmental samples using negative ion chemical ionization mass spectrometry. *Anal. Chem.* 59, 913-917.
- Swackhamer, D.L. and D.E. Armstrong. 1988. The horizontal and vertical distribution of PCBs in Lake Michigan sediments and the effect of Waukegan Harbor as a point source. *J. Great Lakes Res.* 14, 277-290.
- Swackhamer, D.L. and R.A. Hites. 1988. Occurrence and bioaccumulation of organochlorine compounds in fishes from Siskiwit Lake, Isle Royale. *Environ. Sci. Technol.* 22, 543-548.
- Swackhamer, D.L., B.V. McVeety, and R.A. Hites. 1988. Deposition and evaporation of PCB congeners to and from Siskiwit Lake, Isle Royale. *Environ. Sci. Technol.* 22, 664-672.
- Stevens, J.B. and D.L. Swackhamer. 1989. Environmental pollution: a multimedia approach to modeling human exposure. *Environ. Sci. Technol.* 23, 1180-1186.
- Perry, J. and D.L. Swackhamer. 1989. It's a nice place to visit but don't drink the water. Proceedings, Managing America's Enduring Wilderness Resource.
- Swackhamer, D.L. 1990. Bioaccumulation of Toxic Hydrophobic Organic Compounds at the Primary Trophic Level. In Proceedings of the 2nd International Symposium on Fish Physiology, Toxicology, and Water Quality Management, U.S. EPA and People's Republic of China, Sacramento, CA.
- Swackhamer, D.L. 1990. Bioaccumulation of PCB in Lake Superior Plankton. Final Project Report to Minnesota Sea Grant, National Oceanic and Atmospheric Administration, Project R/CL-23.
- Swackhamer, D.L. and S.J. Eisenreich. 1991. Processing of organic contaminants in lakes. In: Organic Contaminants in the Environment: Sources, Environmental Pathways and Effects. K.C. Jones, ed. Elsevier Applied Science Publishers.
- Swackhamer, D.L. and R.S. Skoglund. 1991. The role of phytoplankton in the partitioning of hydrophobic organic contaminants in water. In: Organic Substances and Sediments in Water, R.A. Baker, ed. ACS Symposia Series, Lewis Publishers.

- Baker, J.E., S.J. Eisenreich, and D.L. Swackhamer. 1991. Field-measured associations between polychlorinated biphenyls and suspended solids in natural waters: an evaluation of the partitioning paradigm. In: Organic Substances and Sediments in Water, R.A. Baker, ed. ACS Symposia Series, Lewis Publishers.
- Swackhamer, D.L. 1991. Bioaccumulation of toxic hydrophobic compounds at the primary trophic level. *J. Environ. Sci. China* 3: 15-21.
- Swackhamer, D.L. Quality Assurance Program and Data Certification for Green Bay Mass Balance Study. 1992. Final Project Report to U.S. Environmental Protection Agency, Great Lakes National Program Office, Chicago, IL.
- Swackhamer, D.L. 1992. Pesticide Breakdown Products Survey. Final Project Report to the Minnesota Department of Health and the Legislative Commission on Minnesota Resources.
- Swackhamer, D.L. and J.P. Hassett. 1992. Partitioning of chemicals in the water column. In: Great Lakes Mass Balance Workshop Proceedings, D. Mackay and M. Diamond, ed. University of Toronto, Ontario, Canada.
- Gobas, F.A.P.C., M. Servos, D.L. Swackhamer, and D. Mackay. 1992. A Steady State Mass Balance Model for the management of toxic organic chemicals in aquatic foodchains. In: Great Lakes Mass Balance Workshop Proceedings, D. Mackay and M. Diamond, ed. University of Toronto, Ontario, Canada.
- Swain, W.R., T. Colborn, C. Bason, R. Howarth, L. Lamey, B. Palmer, and D.L. Swackhamer. 1992. Exposure and Effects of Airborne Contamination of the Great Waters of the U.S. Technical Support Document for Report to Congress, U.S. EPA, Office of Air Quality Planning and Standards.
- Swackhamer, D.L. 1992. Chemical and biological controls on the bioaccumulation of hydrophobic organic compounds in foodwebs. In Proceedings of the 3rd International Symposium on Fish Physiology, Toxicology, and Water Quality Management, U.S. EPA and People's Republic of China, University of Nanjing, China.
- Swackhamer, D.L. and R.A. Hicks. 1993. Microbial Recycling of Contaminants at the Sediment Water Interface in Freshwater. Final Project Report, U.S. Environmental Protection Agency, Exploratory Research Program, Washington, D.C.
- Eisenreich, S.J., D.L. Swackhamer, K.L. Lodge, O.E. Kawka, P. King, D.R. Achman, and G.A. Johnson. 1993. Evaluation of Bioaccumulation Models for Hydrophobic Organic Chemicals in Fish for Exposure Assessment. Final Project Report to the Minnesota Pollution Control Agency and the Legislative Commission on Minnesota Resources. 97 pp.
- Swackhamer, D.L. 1993. PCB Congener Analysis of Five Lake Cores in the Area of the Apostle Islands, Lake Superior. Final Project Report, U.S. Geological Survey, Madison, WI.
- Swackhamer, D.L., L.L. McConnell, and D.J. Gregor. 1993. Workgroup report on environmental transport and fate of toxaphene. *Chemosphere*. 27, 1835-1840.

- Swackhamer, D.L. and R.S. Skoglund. 1993. Bioaccumulation of PCBs by phytoplankton: kinetics vs. equilibrium. *Environ. Toxicol. Chem.* 12, 831-838.
- Golden, K.A., C.S. Wong, J.D. Jeremiason, S.J. Eisenreich, G. Sanders, D.L. Swackhamer, D. R. Engstrom, D.T. Long. 1993. Accumulation and preliminary inventory of organic contaminants in Great Lakes sediment. *Water Sci. Technol.*, 28: 19-31.
- Eisenreich, S.J., D.L. Swackhamer, and D.T. Long. 1994. Atmospheric Deposition of Toxic Contaminants to the Great Lakes: Assessment and Importance. Final Project Report, Great Lakes Protection Fund, Chicago, IL.
- Skoglund, R.S. and D.L. Swackhamer. 1994. Processes affecting the uptake and fate of hydrophobic organic contaminants by phytoplankton. In: Environmental Chemistry of Lakes and Reservoirs. L.A. Baker, ed., Advances in Chemistry Series, American Chemical Society, Washington, D.C.
- Stange, K. and D.L. Swackhamer. 1994. Factors affecting phytoplankton species-specific differences in accumulation of 40 PCB congeners. *Environ. Toxicol. Chem.* 13:1849-1860.
- Hornbuckle, K.C., C.W. Sweet, R.F. Pearson, D.L. Swackhamer, and S.J. Eisenreich. 1995. Annual, seasonal, and instantaneous air-water fluxes of PCBs in Lake Michigan. *Environ. Sci. Technol.* 29, 869-877.
- Grigal, D.F., E.A. Nater, G. Oehlert, D.L. Swackhamer, and C. Twaroski. 1994. Environmental Monitoring Studies for Air Emission Facilities: Guidance Document. Minnesota Pollution Control Agency, St. Paul, MN.
- Swackhamer, D.L., R.F. Pearson, S.J. Eisenreich, and D.T. Long. 1995. Past and present accumulation of polychlorinated bornanes in Great Lakes sediments, *Organohalogen Compounds* 26: 319-322.
- Eisenreich, S.J., D.L. Swackhamer, and D.T. Long. 1995. Organic and Inorganic Contaminants in the Sediments and Waters of Lakes Michigan and Ontario. Final Project Report to U.S. Environmental Protection Agency, Great Lakes National Program Office, Chicago, IL.
- Jepsen, R., S. Borglin, W. Lick, and D.L. Swackhamer. 1995. Factors affecting the sorption of hexachlorobenzene to sediments. *Environ. Toxicol. Chem.* 14:1487-1497.
- Wong, C.S., G. Sanders, D.R. Engstrom, D.T. Long, D.L. Swackhamer and S.J. Eisenreich. 1995. Accumulation, inventory and diagenesis of chlorinated hydrocarbons in Lake Ontario sediments. *Environ. Sci. Technol.* 29, 2661-2672.
- Twaroski, C.J., D.S. Grigal, E.A. Nater, G.W. Oehlert and D.L. Swackhamer. 1995. Influence of the 3M Cottage Grove environmental monitoring study on a state agency's approach to multi-media environmental monitoring studies. Air and Waste Management Association Proceedings, San Antonio, TX, June 18-23, 1995.
- Pearson, R.F., K.C. Hornbuckle, K.A. Golden, S.J. Eisenreich, D.L. Swackhamer. 1996. PCBs in Lake Michigan water: comparison to 1980 and a mass budget for 1991. *Environ. Sci. Technol.*, 30:1429-1436.

- Skoglund, R.S., K. Stange and D.L. Swackhamer. 1996. A kinetics model for predicting the accumulation of PCBs in phytoplankton. *Environ. Sci. Technol.*, 30:2113-2120.
- Swackhamer, D.L., R.F. Pearson, S. Schottler. 1996. A mass balance of toxaphene in the Great Lakes of North America, *Organohalogen Compounds* 28: 395-398.
- Swackhamer, D.L. 1996. Studies of PCBs in the Great Lakes. *Issues Environ. Sci. Technol.*, Number 6, Royal Society of Chemistry, 137-153.
- Simcik, M.F., K.A. Golden, S.-P. Liu, S.J. Eisenreich, E. Lipiatou, D.L. Swackhamer and D.T. Long. 1996. Atmospheric loading of polycyclic aromatic hydrocarbons to Lake Michigan as recorded in the sediments. *Environ. Sci. Technol.*, 30:3039-3046.
- Swackhamer, D.L. 1996. PCB Concentrations in Algae from the Milwaukee and Manitowoc Rivers, WI. Final Project Report, U.S. Geological Survey, Madison, WI.
- Pearson, R.F., D.L. Swackhamer, S.J. Eisenreich, and D.T. Long. 1997. Concentrations, accumulations, and inventories of polychlorinated dibenzo-p-dioxins and dibenzofurans in sediments of the Great Lakes. *Environ. Sci. Technol.* 31:2903-2909.
- Pearson, R.F., D.L. Swackhamer, S.J. Eisenreich, and D.T. Long. 1997. Concentrations, accumulations, and inventories of toxaphene in sediments of the Great Lakes. *Environ. Sci. Technol.* 31:3523-3529.
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- Carlson, D. L. and D. L. Swackhamer. 2006. Bioaccumulative contaminants in Great Lakes fish: Effects of intra- and inter-lake processes. *J. Great Lakes Res.* 32: 370-385.
- Streets, S.S.; Henderson, S.A.; Stoner, A.D.; Carlson, D.L.; Simcik, M.F.; Swackhamer, D.L. 2006. Partitioning and bioaccumulation of PBDEs and PCBs in Lake Michigan. *Environ. Sci. Technol.* 40: 7263-7269.
- Barber, L.B., K.E. Lee, D.L. Swackhamer, H.L. Schoenfuss. 2007. Reproductive responses of male fathead minnows exposed to wastewater treatment plant effluent, effluent treated with XAD8 resin, and an environmentally relevant mixture of alkylphenol compounds. *Aquatic Toxicol.* 82:36-46.

INVITED PRESENTATIONS

- “QA/QC Plan for PCB Congener Analysis of Water and Sediments,” 9th Annual Midwest Conference on Environmental Laboratory Technology, Minneapolis, MN, December 1987.
- “Toxic Contaminants in Great Lakes Water and Human Health” Conference entitled The Great Lakes Basin: A Regional Focus on the Environment and Human Health, Great Lakes Coalition of Public Health Associations, Chicago, Illinois, October 1988.
- “Recycling of Hydrophobic Organic Compounds in Lakes,” American Society of Limnology and Oceanography, San Francisco, CA, December 1988.
- “Bioaccumulation of PCBs by Phytoplankton,” Limnology Seminar Series, University of Minnesota, January 11, 1989.
- “Recycling of PCBs in Lakes,” Environmental Chemistry Seminar Series, University of Minnesota, January 23, 1989.
- “PCBs and their Fate in Lakes,” Wisconsin Department of Natural Resources Annual Statewide Meeting, Eau Claire, WI, April 4, 1989.
- “Deposition of PCBs to Siskiwit Lake, Isle Royale, Lake Superior,” Lake Superior Section of the American Chemical Society, Superior, WI, May 11, 1989..
- “Sediment-Water Recycling of Hydrophobic Organic Compounds in Lakes,” American Society for Limnology and Oceanography, Fairbanks, AK, June 1989.
- “Green Bay Mass Balance Study: Special Considerations for QA/QC,” EPA Seminar Series, EPA Environmental Research Laboratory, Duluth, MN, August 17, 1989.
- “Seasonal Variations in PCB Congener Air and Precipitation Concentrations and Fluxes to Siskiwit Lake, Isle Royale, Lake Superior,” with R.A. Hites, Society of Environmental Toxicology and Chemistry, Toronto, Ontario, October 28 - November 2, 1989.

- “Atmospheric Deposition of Toxic Organic Chemicals to Regional Lake Waters,” Minnesota Water Conference, April 9-10, 1990.
- “The Uptake and Bioaccumulation of PCBs by Phytoplankton,” with R.S. Skoglund and K. Stange, American Chemical Society Meeting, Boston, Massachusetts, April 23-27, 1990.
- “Modeling the Bioaccumulation of HOCs at the Primary Trophic Level,” Gordon Research Conference on Environmental Sciences: Water, New Hampton, New Hampshire, June 18-22, 1990.
- “Bioaccumulation of Toxic Hydrophobic Organic Compounds at the Primary Trophic Level,” USA-People’s Republic of China International Symposium on Fish Physiology, Toxicology, and Water Quality Management, Sacramento, California, September 18-20, 1990.
- “Pollutants in Lakes: The Role of Environmental Chemistry,” Bowdoin College, Brunswick, Maine, October 18, 1990, Chemistry Department Seminar.
- “Modeling the Uptake of PCBs by Phytoplankton: Kinetic Considerations,” University of California at Santa Barbara, Guest Seminar Series, November 19, 1990.
- “The Internal Flux of PCBs in Lakes: Implications for Longer Residence Times,” California Institute of Technology, Pasadena, California, March 13, 1990, Guest Seminar Series.
- “Microbial Recycling of Hydrophobic Organic Compounds at the Sediment-Freshwater Interface,” with D.G. Olson, American Chemical Society Meeting, Atlanta, Georgia, April 14-19, 1991. Invited speaker for Symposium for Creative Advances in Environmental Science and Technology Award.
- “The Role of Phytoplankton in Controlling the Fate of Pollutants in Lakes,” with R.S. Skoglund and K. Stange, American Chemical Society Meeting, Atlanta, Georgia, April 14-19, 1991.
- “Bioaccumulation of PCBs in Lower Trophic Levels in Aquatic Systems,” Michigan State University, E. Lansing, Michigan, April 23, 1991, Student Seminar Series sponsored by the Pesticide Research Center and the USDA Water Sciences Fellowship Program.
- “Chemical and Biological Controls on Organic Contaminant Introduction into Aquatic Foodchains,” Spring Environmental Sciences Review, Gray Freshwater Biological Institute, University of Minnesota, May 11, 1991.
- "Analysis of Several Pesticides and Breakdown Products in Minnesota Groundwater by GCMS," Minnesota Mass Spectrometry Discussion Group, Minneapolis, Minnesota, December 4, 1991.
- "Role of Phytoplankton in Controlling PCB Uptake into Foodchains," Green Bay Metropolitan Sewerage District, Green Bay, Wisconsin, December 16, 1991.
- "Chemical and Biological Controls on the Bioaccumulation of Hydrophobic Contaminants in Foodwebs," 3rd International Symposium on Fish Physiology,

Toxicology, and Water Quality Management, Nanjing, People's Republic of China, November 2-5, 1992.

- "What Happens to PCBs When Engineers are Through With Them?", Department of Mechanical Engineering Graduate Seminar Series, University of Minnesota, February 24, 1993.
- "Chemical and Biological Controls on PCB Contamination in the Great Lakes," Minnesota Chromatography Forum, Bloomington, MN, May 4-5, 1993. Focus Address speaker.
- "Toxics Research in the Great Lakes," Toxics Research Workshop, NOAA Chesapeake Bay Environmental Effects Committee, Solomons, MD, May 5-6, 1993.
- "Congener-specific PCB Analysis: Monitoring or Research?", U.S. EPA National Technical Workshop on PCBs, Washington, DC, May 10-11, 1993.
- "Distribution Processes Affecting Contaminant Fate in the Great Lakes: The PCB Story," Great Lakes SETAC/SOT Meeting, E. Lansing, MI, May 14, 1993.
- "Toxaphene in the Great Lakes," with M. Holmes, Pittsburgh Conference, Chicago, IL, February 28-March 4, 1994.
- "Toxic Chemicals in the Great Lakes: What Are They, How Did They Get There, and What Will Happen to Them," Sigma Xi Lecture Series, Duluth, MN, April 10, 1994.
- "Exposure and Effects of Toxic Chemicals in the Great Lakes," Air Toxics in the Great Lakes Environment, Michigan Department of Natural Resources, Lansing, Michigan, April 28, 1994.
- "Toxaphene Inventories and Historical Accumulation in the Great Lakes: The Sediment Record," with M. Holmes, 24th International Symposium on Environmental Analytical Chemistry, Ottawa, Ontario, Canada, May 16-19, 1994.
- "Exposure and Effects of Toxic Chemicals in the Great Lakes," Great Waters Report to Congress, U.S. EPA, Region V, Chicago, IL, August 2, 1994.
- "Link Between Bioaccumulation and Algal Growth", Swedish Environmental Protection Agency, First International Workshop on Interactions between Eutrophication and Contaminants in the Aquatic Environment, Uto, Sweden, September 12-15, 1994.
- "Toxic Pollutants in the Great Lakes: A Report Card on Progress", Environmental Studies Lecturer, Grinnell College, Grinnell, IA, November 16, 1994.
- "Regional Air Deposition and Sediment Toxics", Lake Superior Educator's Symposium sponsored by the National Park Service, Marquette, MI, November 7-9, 1994.
- "Potential and Real Health Effects and Ecological Effects from Exposure to Airborne Contaminants in the Great Lakes", Michigan Society for Risk Analysis, University of Michigan, Ann Arbor, MI, November 21, 1994.
- "Bioaccumulative Compounds and Sediment Quality Criteria", Workshop on Sediment Quality Criteria, EPA Environmental Research Laboratory, Duluth, MN, January 30, 1995.

- “The Great Lakes: the Greatest of Laboratories”, Midwest Environmental Laboratory Technology Conference, St. Paul, MN, February 8-9, 1995. Plenary Speaker.
- “Bioaccumulation in the Lake Michigan Foodchain”, LIMNI Symposium on Lake Research, Navarre, MN, February 24, 1995.
- "Accumulations and Inventories of Organochlorines in Great Lakes Sediments", with R. Pearson, S. Eisenreich, D. Long, American Society for Mass Spectrometry Annual Meeting, Atlanta, GA, May 21-26, 1995.
- “Present and Past Accumulation of Polychlorinated Bornanes in Great Lakes Sediments”, with R. Pearson, S.J. Eisenreich, and D.T. Long, 15th International Symposium on Chlorinated Dioxins and Related Compounds, Edmonton, Alberta, August 21-25, 1995.
- “Fate and Transport of Organic Compounds in Lakes”, MN Department of Health, St. Paul, MN, September 19, 1995.
- “Chemical and Biological Factors in Bioaccumulation of Toxic Compounds in Foodwebs”, University of Minnesota Department of Chemistry, Minneapolis, MN, October 5, 1995.
- “Processes Affecting Bioaccumulation of Toxic Compounds in Phytoplankton”, University of Minnesota Water Resources Program, St. Paul, MN, November 16, 1995.
- “Chemicals in our Air, Water, and Food: How Clean is Clean?” 50th Anniversary Symposium for the University of Minnesota School of Public Health, A 20/20 Vision for Public Health, Minneapolis, MN, April 26-27, 1995.
- “Toxic Chemicals and Endocrine Disruption”, Minnesota Pollution Control Agency, St. Paul, MN, February 2, 1996.
- “Understanding Bioaccumulation: What We Know and Don’t Know”, Rutgers University 75th Anniversary of Department of Environmental Sciences”, New Brunswick, NJ, April 24-26, 1996.
- “A Mass Balance of Toxaphene in the Great Lakes of North America”, with R.F. Pearson and S. Schottler, 16th Symposium of Chlorinated Dioxins and Related Compounds, Amsterdam, The Netherlands, August 12-16, 1996.
- “Atmospheric and Non-point Source Pollutants”, Workshop on Central North American Amphibian Deformities, U.S. EPA National Health and Environmental Effects Research Laboratory, Duluth, MN, September 25-26, 1996.
- “Gaining a Mechanistic Understanding of Bioaccumulation of HOCs by Phytoplankton”, Workshop on Interactions of Nutrients and Toxicants in the Foodchain of Aquatic Ecosystems, Netherlands National Institute of Public Health and the Environment, Woudschoten, The Netherlands, September 15-17, 1996.
- "Temporal Trends in Concentrations of Persistent Toxic Substances in Sediments of the Great Lakes," Workshop on Environmental Results: Monitoring and Trends of Effects Caused by Persistent Toxic Substances, International Joint Commission, Windsor, Ontario, Canada, September 12-13, 1996.

- "If Lake Superior is So Clean, Why Shouldn't We Eat the Fish?", Division of Environmental and Occupational Health, School of Public Health, University of Minnesota, MN, October 7, 1996.
- "Understanding the Mechanism of Bioaccumulation of PCBs in Phytoplankton", Lund University, Department of Ecotoxicology, Lund, Sweden, October 16, 1996.
- "PCB Bioaccumulation in the Lower Foodweb: Role of Lipids", Virginia Institute of Marine Sciences, College of William and Mary, Gloucester Point, VA, November 1, 1996.
- "Bioaccumulation in Great Lakes Foodwebs of PCBs, Chlordanes, and Toxaphene", Stockholm University, Stockholm, Sweden, May 22, 1997.
- "Biomagnification of Toxaphene in the Lower Lake Michigan Foodweb", with R.F. Pearson and S.P. Schottler, Dioxin '97 Conference, Indianapolis, IN, August 24-29, 1997. (Symposium Organizer).
- "Processes Affecting Contaminant Fate", Workshop on Interrelationship of Climate Change and Organic Contaminant Cycling in the Americas, Burlington, Ontario, Canada, September 8-10, 1997.
- "Tales of Toxaphene in the Great Lakes", Michigan Technological University, Houghton, MI, October 30, 1997.
- "Air-Water Exchange and Mass Balance of Toxaphene in the Great Lakes", University at Buffalo, State University of New York, Buffalo, NY, February 20, 1998.
- "Organic Contaminants in the Great Lakes: Effects on Ecosystem and Human Health", Symposium on Economic, Scientific, and Environmental Concerns in the Great Lakes, Water Policy Research Project, University of Minnesota, MN, March 13, 1998.
- "In-lake Processes of POPs in the Great Lakes", Workshop on Persistent Organic Pollutants, University of Lancaster, Lancaster, U.K., April 28-29, 1998.
- "Bioaccumulation of POPs in Foodwebs: Mechanisms and Modeling", Workshop on Assessment of Sources, Atmospheric Fluxes, Environmental Cycling, Effects and Sinks of POPs, Nordic Council of Ministers, Lancaster, U.K., April 30 - May 1, 1998.
- "Processing of Organic Contaminants by Large Lakes: Impacts and Fate", Societas Internationalis Limnologiae (SIL), Dublin, Ireland, August 8-14, 1998.
- "Tales of Toxaphene", Minnesota Chromatography Forum, St. Paul, MN, October 13, 1998.
- "The Great Lakes: One of Earth's Crown Jewels", Keynote Address for Earth Day Celebration, Gustavus Adolphus College, St. Peter, MN, April 26, 1999.
- "Persistent Organic Pollutants in the Great Lakes: A Legacy for the Next Century", Keynote Address, North American Benthological Society Annual Meeting, Duluth, MN, May 23-29, 1999.

- "Bioaccumulation and Cycling of POPs in the Great Lakes", International Society of Exposure Analysis/International Society for Environmental Epidemiology Meeting, Athens, Greece, September 5-8, 1999.
- "Environmental Chemistry of Organic Contaminants in the Great Lakes", Keynote Address, Midwest Environmental Chemistry Workshop, Michigan Technological University, Houghton, MI, October 1-3, 1999.
- "Evaluating Indicators of Endocrine Disruption in Fish", Duluth Aquarium, Duluth, MN, April, 2001.
- "What We Know and Do Not Know About the Bioaccumulation of POPs in Aquatic Foodwebs", Canadian Federation of Biological Sciences, Ottawa, Ontario, Canada, June 22, 2001. (Keynote Speaker).
- "Bioaccumulation of PCBs in Phytoplankton", presented by T. Jabusch, American Society of Limnology and Oceanography, Santa Fe, NM, February 2001.
- "Effects of Environmental Estrogens on Fish in the Vicinity of the Twin Cities Sewage Treatment Plant", with R.A. Lehr, I. Adelman, P. Sorenson, H. Schoenfuss, and J. Levitt, Friends of the Mississippi River Forum, St. Paul, MN, February 2001.
- "Effects of Environmental Estrogens on Fish in the Vicinity of the Twin Cities Sewage Treatment Plant", with R.A. Lehr, I. Adelman, P. Sorenson, H. Schoenfuss, and J. Levitt, Metropolitan Council, St. Paul, MN, February 2001.
- "Research, Industry, and Academic Freedom: A Personal Story", Carleton College, Northfield, MN, February 2001.
- "Developing Great Lakes Environmental Indicators", International Joint Commission Science Advisory Board, Windsor, Ontario, Canada, November 2001.
- "Environmental Estrogens and Feminized Fish: Is There a Link?", St. Croix Watershed Research Station of the Science Museum of Minnesota, February, 2002.
- "Environmental Estrogens: Assessing their Effects on Fish", University of Iowa, Iowa City, IA, February 2002.
- "Effects of Environmental Estrogens on Fish in the Vicinity of the Twin Cities Sewage Treatment Plant", with R.A. Lehr, I. Adelman, P. Sorenson, H. Schoenfuss, D. Martinovik, and J. Levitt, Metropolitan Council, St. Paul, MN, March 2002.
- "Understanding Bioaccumulation of Persistent Toxic Chemicals at the Bottom of the Foodweb", Bodega Marine Laboratory of the University of California at Davis, Bodega Bay, CA, March 2003.
- "Effects of Environmental Estrogens on Fish: Summary of Minnesota Studies", with R.A. Lehr, I. Adelman, P. Sorenson, H. Schoenfuss, D. Martinovik, and J. Levitt, MN Water, St. Cloud, MN, April 2002.
- "Understanding Bioaccumulation of Persistent Toxic Chemicals at the Bottom of the Foodweb", University of California at Santa Barbara, Santa Barbara, CA, May 2002.
- "Endocrine Disruptors: What Are They and How Are They Impacting Our Health and Environment?", Minnesota Pollution Control Agency, St Paul MN, August 29, 2002.

- “Regulating Drinking Water Contaminants”, National Drinking Water Advisory Committee, Washington, DC, September 17, 2002.
- "How Sustainable is the Great Lakes Ecosystem? Present and Future Challenges to Our Inland Seas", Environmental Science, Engineering, and Policy in the 21st Century Series, University of Michigan, Ann Arbor, MI, September 27, 2002.
- "From Endocrine Disruption to Lake Levels: Current Challenges to the Great Lakes Ecosystem", Water Environment Federation, Invited Speaker for Association of Engineering and Environmental Science Professors Luncheon, Chicago, IL, September 30, 2002.
- "From Endocrine Disruption to Lake Levels: Current Challenges to the Great Lakes Ecosystem", Water Resources Conference sponsored by ACSE, Bloomington, MN, October 30, 2002.
- “Dynamics of Toxaphene Behavior and Fate in the Upper Great Lakes”, NSF Workshop, Venice, Italy, November 13-14, 2002.
- "Assessing Impacts of Environmental Estrogens on Fish Populations", given by co-author Randy Lehr, Conference on the Environment, Bloomington, MN, November 14, 2002.
- "Endocrine Disruption in the Environment - How Can We Tell?", Water Resources Science seminar series, University of Minnesota, Minneapolis, MN, December 11, 2002..
- “Developing Ecological Indicators of Chemical Stress to Nearshore Environments of the Great Lakes”, Midwest Society of Environmental Toxicology and Chemistry, Stevens Point, WI, January 29, 2003 (Plenary Speaker).
- "Feminized Fish and Environmental Estrogens: Is There a Link?", Undergraduate Chemistry Lecture Series, University of Minnesota, Minneapolis, March 12, 2003.
- “Coffee Beans, Laundry Soap, and Fish Sexuality”, Superior Science for You Speakers Series, Minnesota Sea Grant, U.S. EPA Laboratory, Duluth, MN, April 9, 2003.
- “Coffee Beans, Laundry Soap, and Fish Sexuality”, Superior Science for You Speakers Series, Minnesota Sea Grant, North House Folk School, Grand Marais, MN, April 10, 2003.
- “Emerging Issues of the Great Lakes in the 21st Century”, Binational Toxics Strategy Committee of the US and Canada, Windsor, Ontario, Canada, February 25, 2003.
- “Emerging Issues of the Great Lakes in the 21st Century”, presented to the International Joint Commissioners of the United States and Canada, April 9, 2003, Washington D.C.
- “Getting Ahead of the Curve: Predicting Future Contaminants of Concern”, presented to the Water Reuse Research Conference, June 3, 2003, San Francisco, CA. (Plenary speaker).

- “Lake Superior and Inland Ecosystems: Contaminant Exposures”, presented to the Minnesota Sea Grant Program Assessment Team (5 year review of program), September 17, 2003, Duluth, MN.
- "Estrogen Mimics and Sex Education for Fishes", invited speaker as part of the Women and Science Seminar Series, SUNY Environmental Science and Forestry, Syracuse, NY, January 27, 2004.
- “Review of Annex 11 and 17 of the Great Lakes Water Quality Agreement of the US and Canada”, presentation to the Workshop on Scientific Review of the Water Quality Agreement, sponsored by the International Joint Commission, Ann Arbor, MI, February 5-6, 2004.
- “The North American Great Lakes: Challenges and Lessons for Human and Ecological Health”, invited plenary speaker for Ecological and Human Health Conference in Moscow State University, Moscow, Russia, October 23-26, 2004.
- “Great Lakes Fish Monitoring Program”, US EPA Great Lakes National Program Office, Chicago, IL, February 8, 2005.
- “Reflections on Serving on the USEPA Science Advisory Board”, seminar speaker for Minnesota Pollution Control Agency, January 27, 2005.
- “PCBs in the Great Lakes: Legacy Contaminant and Current Concern”, ‘Dioxin 2005’, Toronto, Canada, August 25, 2005.
- “Water Priorities in Minnesota”, Minnesota Legislative-Citizen Commission on Minnesota Resources, Minneapolis, MN, September 28, 2006.
- “The Link Between Atmospheric POPs and Foodwebs”, European Union Workshop, Stressa, Italy, October 17-19, 2006.
- “Great Conversations: Protecting Our Water Supply for Future Generations” with David Schindler, University of Minnesota, February 28, 2006.
- “Environmental Estrogens: What are they and Where to They Go?”, Audubon Society, St. Paul Chapter, March 22, 2007.
- “Positioning Academia to Address Environmental Issues in the 21st Century”, University of Winnipeg, campus-wide address sponsored by the US-Canadian Fulbright Program, March 29-30, 2007.
- “Estrogenicity of our Wastewater Treatment Plant Effluents – Sources, Fate, and Impacts”, St. Anthony Falls Hydraulics Laboratory, April 11, 2007.
- “Thursdays at 4 – The Future of the Mississippi River”, Institute of Advanced Study, University of Minnesota, April 12, 2007.
- “Fishing for Trouble – Eat Fish, but How Much?”, Classes Without Quizzes, CFANS alumni event, University of Minnesota, April 14, 2007.
- “Red Fish, Blue Fish, Confused Fish: Environmental Estrogens in Our Waste Waters”, Minnesota Watershed Partners Association meeting, St. Paul, MN, May 9, 2009.
- “Water and Health”, Bush Sustainability Program Journalist Workshop, University of Minnesota, May 21, 2007.

“Indiana Ron: The Halogenated Years”, American Society for Mass Spectrometry annual meeting, Indianapolis, IN, June 5, 2007 (plenary speaker).

“A Thirst for Tomorrow: the Future of Minnesota’s Waters”, Minnesota Community Foundation annual meeting, Brooklyn Park, MN, October 7, 2007 (luncheon speaker).

“Contaminants Past, Contaminants Future: The Unique Perspective of Lake Superior”, Making a Great Lake Superior conference of US and Canada, October 30, 2007, Duluth, MN (plenary speaker).

“Great Lessons from the Great Lakes”, annual conference of the Society of Toxicology and Chemistry, Milwaukee, WI, November 12-16, 2007 (plenary speaker).

Scheduled:

Featured School of Public Health faculty speaker at Alumni Event, Pensacola, FL, January 26, 2008.

Invited seminar, Indiana University, February, 2008.