

CURRICULUM VITAE

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EDUCATION

University	Degree	Year Conferred
School of Public Health, University of Michigan	M.S., Environmental Health Sciences	2002
Lyman Briggs School, Michigan State University	B.S., Microbiology and Public Health	1991

PROFESSIONAL EXPERIENCE

MICROBIOLOGY INSTRUCTOR, WASHTENAW COMMUNITY COLLEGE, ANN ARBOR, MI (MAY – JULY, 2004; JAN. – MAY, 2005). Taught a 200 level science course. Students gained knowledge and laboratory experience in introductory Microbiology. Fundamentals, including microbe observations, anatomy, metabolism, growth, and genetics were covered. They also learned about interactions between microbes and the environment and the human host. Finally, the course looked into various microbial sources of human disease.

RESEARCH LABORATORY SPECIALIST, COOPERATIVE INSTITUTE FOR LIMNOLOGY AND ECOSYSTEMS RESEARCH, SCHOOL OF NATURAL RESOURCES AND ENVIRONMENT, UNIVERSITY OF MICHIGAN (JANUARY, 2003 – PRESENT). Manager of organic contaminants and toxics (PCBs, polycyclic aromatic hydrocarbons, pesticides, benzenes; microcystin) labs and experimental analyst for ecology lab in collaboration with the Great Lakes Environmental Research Laboratory, Ann Arbor, MI. In addition to QA and QC analytical oversight, responsibilities include instrument operation and maintenance, method development, supply budgeting, culture maintenance, training, and supervision.

RESEARCH ASSISTANT II, COOPERATIVE INSTITUTE FOR LIMNOLOGY AND ECOSYSTEMS RESEARCH, UNIVERSITY OF MICHIGAN (1996 - 2002). In charge of bench chemistry at the above lab, with duties involving sedimentary, water, and benthic invertebrate field sample collection, extraction, clean-up, and analysis by gas chromatography with electron capture detection or mass spectrometry.

PROGRAM REPRESENTATIVE FOR DRINKING WATER TREATMENT UNITS, NSF INTERNATIONAL, ANN ARBOR, MI (1995 - 1996). Facilitated drinking water treatment unit certification for manufacturers by monitoring sample collection and testing to confirm compliance or identify and resolve non-compliance with standards.

RESEARCH ASSISTANT II, MENTAL HEALTH RESEARCH INSTITUTE, UNIVERSITY OF MICHIGAN (1992 - 1995). Ran radioimmunoassays and analyzed

neurochemical levels in blood plasma. Maintained tissue cultures, performed cellular transformations and transfections, and prepared and sequenced plasmid DNA.

RESEARCH ASSISTANT I, CROP AND SOIL SCIENCES DEPARTMENT, MICHIGAN STATE UNIVERSITY (MARCH, 1992 - OCTOBER, 1992). Performed chemotaxis studies on potential PAH-degrading soil microorganisms.

MICROBIOLOGY LABORATORIES TEACHING ASSISTANT, DEPARTMENT OF MICROBIOLOGY AND PUBLIC HEALTH, MICHIGAN STATE UNIVERSITY (1990 – 1991). Instructed students on microscopy, aseptic technique, safe handling, and microbial genetics. Also taught microbe isolation, identification, quantitation, and data interpretation.

INDEPENDENT STUDY, DEPARTMENT OF MICROBIOLOGY AND PUBLIC HEALTH, MICHIGAN STATE UNIVERSITY (1990-1991). The concentration, purification, immunoassays, and SDS-PAGE of enzymes from pathogenic bacteria in fermentation cultures were performed. Plasmid DNA preparations and restriction digests were also completed.

ANAEROBIC FERMENTATION LABORATORY AIDE, MICHIGAN BIOTECHNOLOGY INSTITUTE, LANSING, MI (1989 – 1990). Operated anaerobic fermentation systems. Acid products from thermophilic soil and water bacteria growing in these reactors were analyzed by using HPLC and YSI.

PUBLICATIONS

Robinson, S.D., P.F. Landrum, P.L. Van Hoof, and B.J. Eadie. Seasonal Variation of PCB Congeners in Surficial Sediment, Settling Detritus, and Suspended Particles in Lake Michigan. *Environmental Toxicology and Chemistry*. (In Press.)

Landrum, P.F., **S.D. Robinson**, D.C. Gossiaux, J. You, M. Lydy, and S. Mitra. Desorption as a measure of Bioavailability for Sediment-Associated Organic Contaminants for *Diporeia* spp. *Environmental Science and Technology*. (In Press.)

Landrum, P. F., J. A. Steevens, M. McElroy, D. C. Gossiaux, J. S. Lewis, and **S. D. Robinson**. 2005. Time-dependent toxicity of Dichlorodiphenyldichloroethylene (DDE) to *Hyalella azteca*. *Environmental Toxicology and Chemistry* 24(1):211-218.

Landrum, P. F., J. A. Steevens, D. C. Gossiaux, M. McElroy, **S. Robinson**, L. Begnoche, S. Chernyak, and J. Hickey. 2004. Time-dependent lethal body residues for the toxicity of pentachlorobenzene to *Hyalella azteca*. *Environmental Toxicology and Chemistry* 23(5):1335-1343.

Landrum P.F., M. Leppanen, **S.D. Robinson**, D.C. Gossiaux, G.A. Burton, M. Greenburg, J.V.K. Kukkonen, B.J. Eadie, M.B. Lansing. 2004. Effect of 3,4,3',4'-tetrachlorobiphenyl on the reworking behavior of *Lumbriculus variegatus* exposed to contaminated sediment. *Environ. Toxicol. Chem.* 23(1): 178-186.

Landrum P.F., M. Leppanen, **S.D. Robinson**, D.C. Gossiaux, G.A. Burton, M. Greenburg, J.V.K. Kukkonen, B.J. Eadie, M.B. Lansing. 2004. Comparing behavioral and chronic endpoints to evaluate the response of *Lumbriculus variegatus* to 3,4,3',4'-tetrachlorobiphenyl sediment exposures. *Environ. Toxicol. Chem.* 23(1): 187-194.

Leppanen, M. T., P. F. Landrum, J. V. K. Kukkonen, M. S. Greener, G. A. Burton Jr., **S. D. Robinson**, and D. C. Gossiaux. 2003. Investigating the role of desorption on the bioavailability of sediment-associated 3,4,3',4'-tetrachlorobiphenyl in benthic invertebrates. *Environmental Toxicology and Chemistry* 22(12):2861-2871.

PRESENTATIONS

Wilson, A., E. Sedgman, D. Gossiaux, P. Landrum, S. Pothoven, J. Dyble, and **S. Robinson (presenter)**. Preliminary assessment of microcystin accumulation in Yellow Perch during the 2006 cyanobacterial bloom season in western Lake Erie. Presented at the 50th Annual meeting of the International Association for Great Lakes Research, University Park, Pennsylvania. May 28-June 1, 2007.

LANDRUM, P. F., **ROBINSON, S.**, GOSSIAUX, D. C., Lydy, M. J., You, J., and Mitra, A. Bioavailability from sediment of PCB and PAH in two invertebrate species. 27th Annual North American SETAC Conference, Montreal, Quebec, Canada, November 5-9, 2006 (2006)

Vanderploeg, H.A., M. Dionisio-Pires, J.R. Liebig, **S. Robinson**, N.R. Morehead, O. Sarnelle, and A.E. Wilson. Dreissenids and Great Lakes Toxic *Microcystis* Blooms — or a Zooplankton Ecologist Views Pictures at an Exhibition. Meeting of the American Society of Limnology and Oceanography, Victoria, B.C., Canada, June 4-9, 2006.

Vanderploeg, H.A., M. Dionisio-Pires, J.R. Liebig, **S. Robinson**, N.R. Morehead, O. Sarnelle, and A.E. Wilson. Dreissenids and Great Lakes Toxic *Microcystis* Blooms: Theory and Progress. 49th Annual meeting of the International Association for Great Lakes Research, University of Windsor, Ontario, Canada. May 22-26, 2006.

Gossiaux, D. C., P. F. Landrum, M.J. McElroy, **S. D. Robinson**, and J. A. Steevens. Sediment exposures to *Hyalella azteca* using a challenge exposure approach in varying light regimes. 24th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Austin, TX. November 8-13, 2003.

Landrum, P.F., J.A. Steevens, D.C. Gossiaux, M. McElroy, **S. Robinson**, S. Chernyak, L. Begnoche, and J. Hickey. Developing a bioassay approach for assessing the hazard of bioaccumulated residues for benthic organisms using pentachlorobenzene as a challenge compound. Society of Environmental Toxicology and Chemistry 12th annual meeting, Vienna, Austria. May 12-16, 2002.

Gossiaux, D. C., P. F. Landrum, J. S. Steevens, M. J. McElroy, **S. D. Robinson**, L. Begnoche, S. Chernyak, and J. Hickey. Comparison of the time-dependent toxicity of DDE and

pentachlorobenzene in the amphipod, *Hyalella azteca*. 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT. November 16-20, 2002.

Landrum, P. F., J. A. Steevens, D. C. Gossiaux, M. McElroy, **S. Robinson**, L. Begnoche, S. Chernyak, and J. Hickey. A challenge approach to assess bioaccumulated residue. 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT. November 16-20, 2002.

Robinson, S.D., P.F. Landrum, and P.L. Van Hoof. Seasonal Variation of Polychlorobiphenyl Partitioning in Lake Michigan. Society of Environmental Toxicology and Chemistry 21st annual meeting, Nashville, TN. November 12-16, 2000.

Robinson, S.D., P.F. Landrum, and P.L. Van Hoof. Seasonal Variation of Polychlorobiphenyl Accumulation in the amphipod, *Diporeia* spp. Society of Environmental Toxicology and Chemistry 21st annual meeting, Nashville, TN. November 12-16, 2000.

Gossiaux, D.C., Landrum, P.F., and **Robinson, S.D.** Examining the differences in bioaccumulation of PCBs from laboratory-dosed field sediments collected from northern Lake Michigan. Society of Environmental Toxicology and Chemistry 21st annual meeting, Nashville, TN. November 12-16, 2000.

MEMBERSHIP WITH ORGANIZATIONS AND COMMITTEES

- Member, International Association for Great Lakes Research (2006 -)
- Member, Great Lakes Environmental Research Laboratory Safety Committee (2005 - 2006)
- Member, Society for Environmental Toxicology and Chemistry (2000 – 2004)
- Member, American Society for Microbiology (1989 – 1991)
- Promotional Secretary, Lyman Briggs Student Advisory Council (1990 – 1991)
- Student Representative, Lyman Briggs Faculty Advisory Council (1990 – 1991)
- Student Representative, Microbiology Department Curriculum Committee (1990 – 1991)

HONORS AND RECOGNITION

- Great Lakes Environmental Research Laboratory Director's Award for Best Scientific Paper (2005)
- Great Lakes Environmental Research Laboratory Director's Award for Volunteerism ('04-'06)
- Cooperative Institute for Limnology and Ecosystems Research certificate for Outstanding Academic Achievement (2002)
- Dean's List, five terms (1988 – 1991)
- Nominated for USA Today All-USA Academic Team (1991)
- Nominated for tuition-paid Microbiology Department scholarship (1990)
- Nominated for the Michigan State University Chapter of Mortar Board (1990)

