

Becky A. Schwab

Curriculum Vitae

Education

2002- present Southern Illinois University Carbondale, IL
M.S., Zoology, Advisor: Dr. Michael J. Lydy.

1999-2002 Wright State University Dayton, OH
B.S., Environmental Health Science, Summa Cum Laude.

1997-1999 Sinclair Community College Dayton, OH
A.S., Liberal Arts and Sciences, Chemistry Emphasis, Honors.

Research Experience

2002-present Southern Illinois University Carbondale, IL
Graduate Research Fellow, Aquatic Toxicology Laboratory of Dr. Michael J. Lydy.
-Performed waterborne ¹⁴C-TNT bioconcentration and toxicokinetics experiments with Channel Catfish (*Ictalurus Punctatus*).
-Developed and performed methods for HPLC detection and fraction collection of TNT and metabolites.
-Collected sediments, benthic and emergent aquatic invertebrates, and tree swallow eggs and chicks (*Tachycineta bicolor*) for PCB analysis.
-Analyzed collected sediments, aquatic invertebrates, and tree swallows for 41 specific PCB congeners and total PCBs as Aroclor 1254.
-Conducted laboratory sediment exposures using *C. tentans* and analyzed bioaccumulated PCBs.

1998- 2002 Wright State University Dayton, OH
Laboratory Assistant, Aquatic Toxicology Laboratory of Dr. G. Allen Burton, Jr.
-Conducted reference toxicity tests, acute and chronic toxicity tests with water and sediment using *P. promelas*, *D. magna*, *C. dubia*, *H. azteca*, *C. tentans*, and *L. variegatus*.
-Conducted research experiments using field-based (*in situ*) toxicity testing examining various exposure compartments and contaminants.
-Maintained cultures of *P. promelas*, *D. magna*, *C. dubia*, *H. azteca*, *C. tentans*, *C. riparius*, and *L. variegatus*.
-Conducted Toxicity Identification Evaluation (TIE) tests and assisted in the development of an *in situ* TIE.
-Contributed to *H.a.* and *L.v.* toxicokinetics (uptake and metabolism) experiments using radiolabeled compounds.
-Co-authored a technical report for RMT, Inc. Madison, WI.
-Co-authored presentations at 22nd and 23rd North American Annual Meetings of SETAC and at 12th Annual Meeting of SETAC Europe.

Scholarships

Delyte and Dorothy Morris Doctoral Fellowship, 2002-2005.
Wright State University Salutatorian Full-Tuition Scholarship, 1999-2002.
Ohio Academic Scholarship, 1999-2002.