

SUSAN W. FISHER



Professional Preparation

University of Illinois Botany B.S.
University of Illinois Biology M.S.
University of Illinois Entomology Ph.D.

Appointments

1993-present: Professor of Entomology, Environmental Sciences Graduate Program, Veterinary Biosciences, Center for Molecular Environmental Toxicology, OSU
2000-present: Secretary of the University Senate, Office of Academic Affairs, OSU
1987-1993: Associate Professor of Entomology, OSU
1981-1987: Assistant Professor of Entomology, OSU

Top Honors and Awards

Nemzer Award for Academic Freedom, American Assoc. of Univ. Profs (OSU chapter), 1998
Faculty Award for Distinguished University Service, 2000
College of Biological Sciences Dean's Award for Classroom Teaching for Faculty, 2004

Program capsules

Research: Control of nonindigenous aquatic nuisance species; factors affecting food chain transfer of persistent organic contaminants, critical body residues for contaminants with a narcotic mode of action.

Teaching: Graduate courses in insecticide toxicology and environmental toxicology and chemicals; undergraduate instruction of Biology 101(700 nonmajors per quarter).

Service: Reappointment as Secretary of the University Senate, responsibility for the legislative agenda of the university and governance matters related to academic and educational policy.

Three Most Important Scholarly Accomplishments, Last Five Years

-Established the validity of using critical body residues in invertebrates as the dose metric in toxicity assessments of nonpolar narcotics.

-Substantive contributions to understanding of food chain transfer of chlorinated organics in aquatic food chains.

-Development of a proposal for an institute for experimental teaching focused on teaching methods necessary for success in a 21st century university.

Five Selected Publications (70 total)

Hwang, H., S.W. Fisher, K.Kim, P.F. Landrum, R.J. Larson and D.J. Versteeg (2003). Assessing the toxicity of dodecylbenzene sulfonate to the midge, *Chironomus riparius* using body residues as the dose metric. *Environmental Toxicology and Chemistry* 22: 232-251.

Hwang, H., S.W. Fisher, K.Kim and P.F. Landrum (2001). Identifying body residues of HCBP associated with 10-d mortality and partial life cycle effects I the midge, *Chironomus riparius*. *Aquatic Toxicology* 57: 251-267.

Dabrowska, H.D. and S.W. Fisher (1999). Dietary uptake efficiency of HCBP in yellow perch and rainbow trout: the role of dietary and body lipids. *Environ. Toxicol. Chem.* 18: 938-945.

- Fisher, S.W., S.W. Chordas III and P.F. Landrum (1999). Lethal and sublethal body residues for PCB intoxication in the oligochaete, *Lumbriculus variegates*. *Aquatic Toxicology*. 45: 115-126.
- O'Donnell, J.M., M.E. Durand, P.-M.L. Robataille, S.W. Fisher and P.C. Stromberg (1996). ³¹P-NMR analysis of lethal and sublethal lesions produced by KCl-intoxication I the zebra mussel, *Dreissena polymorpha* . *J. Expt. Biology*. 276: 53-62.

Five Selected Grants (2,419,274 total; 2,218,644 as PI)

- “Laboratory and field studies in support of the critical body residue hypothesis.” Funded by NOAA for \$97,000 3/00-2/02, S. Fisher PI.
- “Critical body residues for aquatic risk assessment of surfactants.” Funded by NOAA and Procter and Gamble Co., \$177,000, 7/97-6/00, S.Fisher, PI.
- “Turtles as environmental monitors of priority pollutants and significance to human consumers.” Funded by Lake Erie Protection Fund, \$117,000, 1/97-1/98, S. Fisher and J Estenik, PIs.
- “The use of potassium in control of the zebra mussel, PALLAS.” Funded by NOAA for \$115,000, 9/91-9/93, S. Fisher, PI.
- “Evaluation of molluscicides for zebra mussel control.” Funded by US Fish and Wildlife Service for \$725,000, 4/91-10/95, S. Fisher PI.

Professional Service Highlights, Last 5 years

- Search Committee for Executive Dean of the Arts and Sciences (2004-present)
- Faculty Career Enhancement Committee (2004-present)
- Faculty Work Life Integration Committee (2002-2003)
- Career Services Advisory Committee (2002-2003)
- IMPACT II Committee (2002-2003)
- Rhodes and Mac Arthur award selection committees (2002)
- Presidential Search Committee (2002)
- Panelist on Outreach and Engagement, Board of Trustees Leadership Retreat (1999)
- Selection Committee for distinguished service awards (1998-present)
- Diversity Action Committee (1999-2000)

Key Collaborations:

- Project on critical body residues for surfactants with Procter & Gamble Co.
- Critical body residues, food chain transfer and environmental behavior of persistent chlorinated organics with Great Lakes Environmental Research Lab, Ann Arbor
- Ohio EPA on use of snapping turtles as biomonitors
- Multiple South Korean universities primarily in the area of critical body residues
- US Fish and Wildlife Service and several industries on zebra mussel control.

Additional Synergistic Activities

- Science fair judge for K-12 students and multiple presentations on insects for elementary schools in the Delaware City School District.
- Extensive outreach in using the arts to illustrate scientific principles at the undergraduate and K-12 levels.