

Daryl F. Dwyer

Director of the Stranahan Arboretum and Associate Professor of Ecology

Stranahan Arboretum, Lake Erie Center, and Department of Environmental Sciences,
University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606-3390
(419)530-2661/8365; daryl.dwyer@utoledo.edu; <http://www.utoledo.edu/as/lec/research/errl>

Professional Preparation

NSF Postdoctoral Scholar, Department of Biochemistry and Medicine, University of Geneva, 1986-1988
Ph.D., Department of Microbiology, Michigan State University, 1986
M.A., Department of Biology, State University of New York, Buffalo, 1981
B.S., Department of Biology, Wilkes University, 1978

Appointments

2001	Associate Professor, Department of Environmental Sciences, University of Toledo
1993	Associate Professor, Department of Civil Engineering, University of Minnesota
1988	Project Leader in Applied Microbial Ecology, Federal Institute for Biotechnological Research (GBF), Germany
1987	Maitre d'Assistant, University of Geneva, Switzerland
1986	Research Assistant, University of Geneva, Switzerland

Five recent relevant publications (of 42 total)

*=undergraduates, **graduate students, postdocs and technicians

- Barnswell, K. D.** and **D. F. Dwyer**. 2008. Vegetation survey of an inactive municipal solid waste landfill: implications for restoration and leachate control. Submitted to the Journal of Environmental Engineering.
- Barnswell, K. D.** and **D. F. Dwyer**. 2007. Vascular flora of the King Road landfill in northwest Ohio. Ohio Journal of Science. **107**:91-103.
- Rofkar, J.**, **D. F. Dwyer**, and J. Frantz. 2007. Analysis of arsenic uptake by plant species selected for growth in northwest Ohio by Inductively Coupled Plasma-Optical Emission Spectroscopy. Communications in Soil Science and Plant Analysis. **38**:2505-2517.
- Francy, D. S., P. Struffolino**, A. Brady**, and **D. F. Dwyer**. 2005. A spatial multivariable approach for identifying proximate sources of *Escherichia coli* to Maumee Bay, Lake Erie, Ohio. U.S.G.S. Open File Report 2005-1386.
- Richard D. E.** and **D. F. Dwyer**. 2002. Aerated biofiltration for simultaneous removal of iron and polycyclic aromatic hydrocarbons from groundwater. Water Environment Research. **36**:1539-1546.

Five other relevant publications

- Bankston, J. L.**, D. R. Sola**, A. K. Komort**, and D. F. Dwyer. 2002. Degradation of trichloroethylene in wetland microcosms containing broad-leaved cattail and eastern cottonwood. Water Research. **73**:673-679.
- Halden, R. U.**, E. G. Peters**, B. G. Halden**, and D. F. Dwyer. 2000. Transformation of mono- and dichlorinated phenoxybenzoates by phenoxybenzoate dioxygenase in *Pseudomonas pseudoalcaligenes* POB310 and a modified diarylether-metabolizing bacterium. Biotechnology and Bioengineering. **69**:107-112.
- Halden, R. U.**, B. G. Halden** and D. F. Dwyer. 1999. Removal of dibenzofuran, dibenzo-*p*-dioxin, and 2-chlorodibenzo-*p*-dioxin from soils inoculated with *Sphingomonas sp.* strain RW1. Applied and Environmental Microbiology. **65**:2246-2249.
- Heuer, H.**, D. F. Dwyer, K. N. Timmis, and I. Wagner-Döbler**. 1995. Efficacy in aquatic microcosms of a genetically engineered pseudomonad applicable for bioremediation. Microbial Ecology. **29**:203-220.

Krumme, M. L.**, R. L. Smith, J. Egestorff**, S. A. Thiem**, J. M. Tiedje, K. N. Timmis, and D. F. Dwyer. 1994. Behavior of pollutant-degrading microorganisms in aquifers; predictions for genetically engineered organisms. *Environmental Science and Technology*. **28**:1134-1138.

Synergistic Activities

- Advisory Board, Lake Erie Center**, University of Toledo (2004-present)
- Sigma Xi Student Research Symposium**, Director (2004-present), Division Chair (2002-2004)
- Maumee Bay State Park Restoration Plan**, Project Management Team (2006-present)
- Grant Review Panels**, US NSF and US EPA
- Journal Reviewer**: Water Research, Biotechnology and Bioengineering, Applied and Environmental Microbiology, Chemosphere, Trends in Biotechnology, Environmental Engineering

Scientific collaborations outside of the University of Toledo

R. L. Smith and R. Harvey (USGS, Loveland, CO), D. R. LeBlanc (USGS, Cape Cod, MA), D. Francy (USGS, Columbus, OH), R. Vincent (Bowling Green State University, OH)

Graduate and Post Doctoral Advisors

Kenneth N. Timmis, Post-doctoral Advisor (1986-1988, University of Geneva, Switzerland)
James M. Tiedje, PhD Advisor (1982-1986, Michigan State University, MI)
John Storr, MA Advisor (1979-1981, SUNY, Buffalo, NY)

Current Graduate Students

Ph.D. Dissertation Advisor (N = 2), MS Thesis Advisor (N = 7), all University of Toledo students

Jordan Rofkar, Ph.D. (2006-present), Kris Barnswell, Ph.D. (2006-present), Pam Struffolino, M.S. (2003-present), Joe Hickey, M.S. (2004-present), Joshua Saunders, M.S. (2005-present), Colin de Saint Victor (2005-present), Steven Choc, M.S. (2006-present), Matthew Gorr, M.S. (2008-present), Adam Waltz, M.S. (2009-present)

Completed Graduate Students

Ph.D. Dissertation Advisor (N = 6), M.S. Thesis Advisor (N = 20), Post-doctoral Sponsor (N = 2)

Post-doctoral advisees: Dr. Rudiger Pipke, 1988-1990 (GBF, Germany); Irene Wagner-Dobler, 1988-1990 (GBF, Germany). Ph.D. Advisees, GBF, Germany: Mary Lou Krumme (1989-1993); Jorg Egestorff (1989-1993); Uwe Dehmel (1990-1994). Ph.D. Advisees, University of Minnesota: Rolf Halden (1994-1997); Marc von Keitz (1994-2000); Don E. Richard (1997-2003). M.S. Advisees, GBF, Germany: Klaus Nuesslein (1988-2000); Maren Brunke (1989-1991). M.S. Advisees, University of Minnesota: Erik Peters (1993-1997); Gary Mundfrom (1993-1997); Keith Anderson (1993-1997); Sandra Tepp (1995-1998); Julie Sullivan (1996-1999); Jamie Bankston (1997-1999); Troy Twesme (1998-1999) and non-research theses students: Zelma Zieman (1993-1994); Rolf Halden (1993-1994); Scott Abrams (1996-1997); William Raatz (1994-1999); Dean Langenfeld (1998-2000); Jennifer Kersten (2000-2001). M.S. Advisees, University of Toledo: Jordan Rofkar (2003-2005); Kris Barnswell (2003-2005); Harrison Murbi (2004-2006); Sara Mierzwak (2005-2006); Jona Scarbro (2004-2006).