

**Daryl F. Dwyer**  
**Associate Professor, Department of Environmental Sciences and the Lake Erie Center**  
University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606-3390  
Tel: (419) 530-2661; email: daryl.dwyer@utoledo.edu

**Professional Preparation**

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

**Appointments**

2001 Associate Professor, Department of Environmental Sciences, and  
Director, the Stranahan Arboretum, the 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 relevant publications**

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

\*\*Rofkar, J.R., D.F. Dwyer and \*\*D.M. Bobak. 2013. Uptake and toxicity of arsenic, copper and silicon in *Azolla caroliniana* and *Lemna minor*. *International Journal of Phytoremediation*. In press.  
\*\*Barnswell, K. and Dwyer D. 2012. Two-year performance by evapotranspiration covers for municipal solid waste landfills in northwest Ohio. *Waste Management*. 32:2336-2341.  
\*\* Rofkar, J.R. and D.F. Dwyer. 2012. Irrigation of three wetland plant species and a hyperaccumulating fern with arsenic-laden solutions: observations of growth, arsenic uptake, nutrient status, and chlorophyll content. *International Journal of Phytoremediation*. 15:561-572.  
\*\*Barnswell, K.D. and D.F. Dwyer. 2011. Assessing the performance of evapotranspiration covers for municipal solid waste landfills in Northwest Ohio. *Journal of Environmental Engineering*. 137:301- 305.  
\*\*Rofkar, J.R. and D.F. Dwyer. 2010. Effects of light regime, temperature, and plant age on uptake of arsenic by *Spartina pectinata* and *Carex stricta*. *International Journal of Phytoremediation*. 13:528-537.

**Five other publications**

\*\*Awondo, S.N., K.J. Egan and D.F. Dwyer. 2011. Increasing Beach Recreation Benefits by Using Wetlands to Reduce Contamination. *Marine Resource Economics*. 26:1-15.  
\*\*Chowdhury, R., D. Apul, and D.F. Dwyer. 2009. Preliminary studies for designing a wetland for arsenic treatment. In: *Groundwater Modeling, Management, and Contamination*; L. F. Konig and J.L Weiss, eds. pp.187-202.  
\*\*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.  
\*\*Bankston, J. L., \*\*D. R. Sola, \*A. K. Komorr, and D. F. Dwyer. 2002. Degradation of trichloroethylene in wetland microcosms containing broad-leaved cattail and eastern cottonwood. *Water Research*. 73:673-679.

\*\*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.

### **Synergistic Activities**

-**Sigma Xi Student Research Symposium**, Director (2004-2010), Division Chair (2002-2004)

-**Maumee Bay State Park Restoration Plan**, Project Management Team (2006-present)

-**Advisor, biomass research team**, Boosting Ohio's Sustainable Energy Future (2011-present)

-**Grant Review Panels**, US NSF, Aus USDA, and US EPA

-**Journal Reviewer**: Water Research, Biotechnology and Bioengineering, Applied and Environmental Microbiology, Chemosphere, Trends in Biotechnology, Environmental Engineering, Waste Management, Science of the Total Environment, International Journal of Phytoremediation, International Journal of Physical Sciences

### **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 and Post-Doctoral Advisees**

**Post-Doctoral Sponsor (N = 2), Ph. D Dissertation Advisor (N=1), MS Thesis Advisor (N = 3), all University of Toledo students**

Advisees: Postdoctoral: Dr. Jordan Rofkar (Sponsor USDA, 2010-2014), Dr. Kristopher Barnswell (2010-2013); PhD: Lindsay Cain (2012-present), Ryan Jackwood (2013-Present); MS: Matthew Mayher (2014-Present)

### **Completed Graduate Students and Post-Doctoral Sponsorships**

**Ph.D. Dissertation Advisor (N = 8), M.S. Thesis Advisor (N = 21), 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). Ph.D. Advisees, UToledo: Kristopher Barnswell, (2005-2010); Jordan Rofkar (2005-2010). 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); Pamela Struffolino (2003-2008); Matthew Gorr (2009- 2011); Mary Lynn Muehleisen (2010-2012). Danielle Long (2011-2013), Ryan Jackwood (2011-2013), Candice Brothers (2012-2014);