

## **Richard R. Rediske, Ph.D.**

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Annis Water Resources Institute  
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### **ACADEMIC DEGREES**

B.S., Biology, Bowling Green State University, 1974  
M.S., Water Resources Science, University of Michigan, 1975  
Ph.D., Environmental Health Sciences, University of Michigan, 1986

### **AREAS OF SPECIALIZATION**

Environmental chemistry, environmental toxicology, Great Lakes issues, watershed structure and function, environmental assessment, environmental indicators, environmental policy.

### **EMPLOYMENT HISTORY**

Research Assistant: Great Lakes Research Division, University of Michigan, 1975.  
General Manager: Anatech Services, Ann Arbor, MI., 1976-1977.  
Organic Laboratory Manager: Environmental Research Group, Ann Arbor, MI., 1978-1980.  
Chief Organic Research Chemist: Muskegon County Wastewater Management System, 1980-1982.  
Director of Laboratory and Environmental Science Services: WW Engineering and Science, Grand Rapids, MI., 1982-1991.  
Senior Vice President, Environmental Services: Earth Tech, Grand Rapids, MI., 1992-1995.  
Senior Research Scientist: Water Resources Institute, Grand Valley State University, 1995-Present.

### **HONORS AND SERVICE**

Research Fellow. Cooperative Institute for Limnological and Environmental Research. University of Michigan  
Visiting Scientist. Great Lakes Environmental Research Laboratory. Ann Arbor, MI.  
West Michigan American Chemical Society Distinguished Service Award.  
Muskegon Environmental Coordinating Council, Lifetime Achievement Award  
Governor's Environmental Monitoring Advisory Committee. State of Michigan  
Michigan Department of Environmental Quality Analytical Detection Limit Review Board  
Michigan Department of Environmental Quality Rule 57 Development and Advisory Board.  
Science Olympiad, 5 Year Service Award and National Event Supervisor  
Chairman, Muskegon Lake Public Advisory Council  
Planning Commissioner, Allendale Township  
Boy Scouts of America, Distinguished Service Award

### **GRADUATE STUDENT COMMITTEES (MS Biology)**

Royce Hughes (Chairman)  
Elaine Isely (Co-chairman)

## **Courses Taught**

Environmental Toxicology (Biology Department Winter 2005)  
Research Methods (Honors College scheduled for Fall 2005)  
Industrial Chemistry (Chemistry Department scheduled for Winter 2006)

## **PUBLICATIONS**

Meier, P.G. & **R. Rediske**, 1984 . Oil & PCB Interactions on the Uptake and Excretion in Midges. Bull. Environ. Contam. Toxicol. 33:225-232.

Demerjian, Y.A., T. Westman, and **R. Rediske**, 1983. Fate of Organic Pollutants in Wastewater Land Treatment System Using Lagoon Impoundment and Spray Irrigation. EPA-60012-83-077.

Pugh L.B., **R. Rediske**, D. Peden and D. Rodgers. Activated Carbon-Enhanced Biological Groundwater Treatment. in Biological Unit Processes for Hazardous Waste Treatment. R.E. Hinchee, R.S. Skeen, and G.D. Sayles ed. Battelle Press. 1995.

**Rediske, R.**, G. Fahnenstiel, P. Meier, T. Nalepa, and C. Schelske, 1998. Preliminary Investigation of the Extent and Effects of Sediment Contamination in White Lake, Michigan. EPA-905-R-98-004.

**Rediske, R.**, C. Bertin, J. Blunt, and M. Qi, 1999. Preliminary Investigation of the Extent of Sediment Contamination in the Lower Grand River. EPA-905-R-99-010.

MacDonald, N.W., **R.R. Rediske**, and J.E. Van Denend. 2001. Hydrologic events and water quality in the Pigeon River, Ottawa County, Michigan. Michigan Academician XXXIII:153-170

**Rediske, R.**, J. Gabrosek, C. Thompson, and P. Meier, 2001. Preliminary Investigation of the Extent of Sediment Contamination in Manistee Lake. EPA-905-R-01-004.

**Rediske, R.**, J. Gabrosek,, G. Peaslee, G. Carter and T. Nalepa, 2002. Preliminary Investigation of the Extent of Sediment Contamination in Muskegon Lake. EPA-905-R-02-004.

**Rediske, R.**, M. Chu,, D. Uzarski, G. Peaslee, J. Gabrosek. 2004. Phase II Investigation of Sediment Contamination in White Lake. EPA-905-R-04-001.

Madenjian, C.P., D.V. O'Connor, S.M. Chernyak, **R.R. Rediske**, and J.P. O'Keefe. 2004. Evaluation of a Chinook salmon (*Oncorhynchus tshawytscha*) bioenergetics model. Canadian Journal of Fisheries and Aquatic Sciences 61: 627-635.

Steinman, A.D., **R. Rediske**, and R. Remesh Reddy. 2004. The importance of internal phosphorus loading in Spring Lake, Michigan. J. Environ. Qual. 33:2040-2048

## **RECENT GRANT AWARDS**

\$20,000 Received from the EPA Great Lakes National Program Office, 2004. Development of Numerical Targets for the Delisting of Beneficial Use Impairments in the Muskegon Lake and White Lake Areas of Concern. (PI)

\$12,000 Received from the Fremont Area Community Foundation, 2004. The Development of Model Zoning Ordinances to Support the Michigan Natural River's Act in Newaygo County.

\$31,000 Received from the Michigan Department of Environmental Quality, 2004. Nutrient budget for White Lake, MI. 2004-05. (Co PI with M. Luttenton and A. Steinman)

\$38,000 Received from the Michigan Department of Environmental Quality, 2004 Assessment of internal phosphorus loading in Mona Lake, MI. (Co-PI with A. Steinman)

\$32,000 Received from the Michigan Department of Environmental Quality, 2004 Assessment of internal phosphorus loading in Lake Macatawa, MI. (Co-PI with G. Peaslee and A. Steinman)

\$65,000 The Cadmus Group (EPA Region IV and MDEQ) 2004 West Michigan Tributary Monitoring to Support the Development of Total Suspended Solids Total Daily Maximum Loads. (PI)

\$23,000 Received from the Michigan Department of Environmental Quality, 2004. Post Remediation Investigation of Sediment Contamination in Tannery Bay. (PI)

\$35,000 Received from Muskegon Health Department and District 10 Health Department. 2004 Beach Monitoring Program. (PI)

\$118,000 Received from EPA, 2003. "Assessment of Contaminated Sediments in the Mona Lake Watershed." (Co PI with D. Uzarski, M. Chu, and T. Burton)

\$12,000 Received from the Michigan Department of Environmental Quality, 2004. Sediment Toxicity Investigation of Lower Ryerson Creek. (PI)

\$25,000 Received from Muskegon Health Department. 2003 Beach Monitoring Program.

\$80,000 Received from Great Lakes Fisheries Trust (Mega Model U of M Project with Mike Wiley). 2003. Muskegon River Nutrient Loading and Tributary Monitoring.

\$100,000 Received from Mott Foundation, 2002. Watershed Assessment of Mona Lake Watershed. (Co PI with A. Steinman, D. Uzarski, J. Koches, M. Chu)

\$65,000 Received from the U of M CILER. PCB Congener Analysis to Support the Development of a Bioenergetics Model for Lake Michigan Whitefish. (NOAA and USGS)

\$40,000 Received from The Community Foundation for Muskegon County , Nov 2001. "White River Watershed Preliminary Habitat Study." (PI)

\$105,000 Received from EPA, October, 2001. Investigation of Contaminated Sediments in Lake Macatawa. (PI)