

**KENNETH R. RYGWELSKI**

Environmental Engineer

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Education:

B.S., Chemistry, Michigan Tech. University, 1972

M.S., Chemical Engineering, Wayne State University, 1983

Graduate Certificate, Hazardous Waste Control, Wayne State University, 1995

Employment:

1995-Present Environmental Engineer, U.S. EPA, Grosse Ile, MI  
1995-1995 Data Coordinator/Modeler, Alpha Omega Chemical Corporation  
1993-1994 Coordinator/Modeler, ASCI Corporation Data  
1984-1993 Section Manager, Computer Sciences Corporation  
1973-1984 Technical Supervisor, Cranbrook Institute of Science

Research Interests and Skills:

Current research interests include mathematical modeling of atrazine and mercury in the Lake Michigan basin to predict environmental exposure concentrations for the purposes of predicting effects of the two chemicals on biota in the lake. For both chemicals, I am interested in including not only cycling within the lakes but also the impact that the surrounding watershed, including land-use practices, have on loadings of the two chemicals to Lake Michigan.

Professional Societies:

American Chemical Society

International Association of Great Lakes Research

Friends of the Detroit River

Selected Appointments/Honors/Major Awards:

Received NHEERL Goal 1 Award for support of the U.S. EPA Region 5 Great Lakes National Program Office by presenting results of the LMMBP. 10/2006  
Received EMS Coordinator Certificate of Accomplishment for EMS Implementation at LLRS by Assistant Administrator, Luis Luna. Fulfills requirements under Executive Order 13148. 10/2006  
Received cash NHEERL S-award for LLMBP presentation to the states. 10/2006  
Received cash award for successful SHEMD audit. 7/2005  
Received Superior Accomplishment Award for leadership in MED EMS program development and implementation. 4/2005  
Received an agency S-Award for efforts to bring 100% Green Power to both the MED Duluth and Grosse Ile operations at a substantial cost savings. 10/2004  
Superior Accomplishment Recognition Award - Group Cash Award for PCB peer review. 9/2004  
Superior Accomplishment Recognition Award - A presentation of an invited paper, An Update on Mercury Loadings, Transport, and Fate in Lake Michigan, to the International Joint Commission - International Air Quality Advisory Board. Las Vegas, NV in January 2004. 4/2004  
National Nominee for Gold/Silver Medal for Exceptional/Superior Service - Lake Michigan Mass Balance Group for the Development, Planning, and Implementation of the Lake Michigan Mass Balance Study. Received agency Bronze Medal. 2/2004  
Superior Accomplishment Award - FY 2001 Scientific and Technological Achievement Award (Level III) for journal article: A Screening-Level Model Evaluation of Atrazine in the Lake Michigan Basin. 3/2003  
Superior Accomplishment Award - laboratory contract support selection committee 10/2002  
On The Spot Award - LMMBP Modeling Poster at MED Science 2002 Peer Review, 2/2002  
Superior Accomplishment Award - Management of SHEM Program, 2001  
Superior Accomplishment Award - Lake Michigan Mass Balance Project Atrazine Modeling, 2001  
U.S. EPA /OARM Bronze Medal for Commendable Service - SHEM Program, 2000  
Superior Accomplishment Award - Lake Michigan Mass Balance Modeling QAPP, 1999  
Superior Accomplishment Award - Management of SHEM Program, 1999

U.S. EPA /ERL-Duluth Silver Certificate for Exceptional Service - Modeling, 1990  
Member of the Environmental Advisory Board (City of Trenton, MI), 2000-2004  
Certified Hazardous Materials Manager (CHMM) by Institute of Hazardous Materials Management, 1995-Present  
Chemistry degree certified by American Chemical Society, 1972  
Former On-Site Contract Manager, Computer Sciences Corporation  
Former Project Facilitator, Assessment and Remediation of Contaminated Sediments, Risk Assessment and Modeling Workgroup  
Former Project Facilitator, Trenton Channel Mass Balance Project, Upper Great Lakes Connecting Channels Study

Selected Publications:

Rygwelski, K.R., W.L. Richardson, and D.D. Endicott. 1999. A screening-level model evaluation of atrazine in the Lake Michigan Basin. *J. Great Lakes Res.* 25:94-106.

Zhang, X. and K.R. Rygwelski. 2000. A modeling framework for mercury cycling in Lake Michigan. In *11<sup>th</sup> Annual International Conference on Heavy Metals in the Environment*, J. Nriagu, Ed., Contribution # 1127, University of Michigan, School of Public Health, Ann Arbor, MI (CD-ROM).