Ed Dunne
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OBJECTIVE

I am an applied watershed ecologist who focuses on interdisciplinary science-based approaches to improve the understanding and management of natural resources

EXPERIENCE

June 2017 – Present
Branch Chief, *Water Quality Division, Department of Energy and Environment, Washington, D.C.*
Lead the District's water quality standards, total maximum daily loads, and water quality certification programs. Supervise and manage a team of scientists, engineers, and program analysts. Lead science-based projects to improve surface water, soil, and groundwater resources to fill critical science needs. Chair DOEE's agency-wide Research Task Force that helps align science needs and Co-Chair the Water Quality Goal Implementation Team of the Chesapeake Bay Program, which includes developing a strategic science adaptive management plan to achieve restoration outcomes.

September 2014–June 2017
Program Officer, *Water Science and Technology Board, Division on Earth and Life Studies, National Academies of Science, Engineering, and Medicine, Washington, D.C.*
Drafted task statement and assembled committee to undertake a USGS sponsored study entitled "Future Water Priorities for the Nation: Directions for the U.S. Geological Survey Water Mission Area." Lead an academic team of volunteers on a Global Hydrological Cycles and Water Resources panel to produce report sections in a NASA, NOAA, and USGS sponsored study entitled "Thriving on Our Changing Planet: A Decadal Strategy for Earth Observation from Space."

November 2007 - August 2014
Supervising Environmental Scientist and Environmental Scientist V, *Bureau of Environmental Sciences, St. Johns River Water Management District, Florida*
Lead, managed, and supervised a multidisciplinary science team to manage a large-scale treatment wetland, which resulted in improving program efficiencies. Reviewed proposal and projects to improve management of lake water quality. Lead the development of watershed nutrient budgets. Undertook contract review and provided operating budget oversight. Produced and reviewed technical documents and peer-reviewed papers.

January 2005 – November 2007
Assistant Research Scientist and Postdoctoral Research Associated, *Soil and Water Science Department, University of Florida, Gainesville*
Co-principle investigator on successfully grant funded (local, state, and federal) wetland restoration, ecological engineering, and water quality improvement projects. Coordinated laboratory and field scale tasks. Analyzed complex datasets of water, soil, and vegetation. Wrote interim and final reports for sponsoring agencies. Published ecological research in peer-reviewed journals.

RELATED SKILLS

Lead, manage, and supervise scientists	Leadership and guidance in science programs
Planning, coordinating and executing science-based plans	Verbal and written communication
Enabling and empowering employees	Computing skills and quantitative analyses

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EDUCATION

2004
Ph.D. in Environmental Resource Management, *University College Dublin, Ireland*
Use of wetland systems to mitigate contaminant and nutrient loss. Research helped to develop recommendations for a national protocol in Ireland and evaluate management practices to improve watershed water quality in Florida, USA.
2001
M.Sc. in Environmental Resource Management. *University College Dublin, Ireland*
Thesis—International approaches to environmental assessment. Coursework included water resources, resource planning, land use, and environmental management.
1999
B.Sc. in Biology. *Bangor University, Wales, U.K.*
Minor Thesis—Use of constructed wetlands to treat industry wastewaters. Coursework included botany, microbial plant interactions, plant form and function, ecosystems and communities, taxonomy, ecology, plant ecophysiology, and environmental management.

ADDITIONAL EDUCATION/TRAINING

2020
Certified Public Manager and Certificate in Strategic Project Management, *The George Washington University, Washington DC*
This nationally accredited program to enhance the skills of managers and provide them with tools to become more effective leaders.
2007
Graduate of the Florida Natural Resources Leadership Institute, *University of Florida, Gainesville*
Completed training in collaborative leadership on natural resource issues.

EXAMPLE PUBLICATIONS (Full list available)

Peer-reviewed manuscript
Dunne, E.J., M. F. Coveney, V. R. Hoge, R. Conrow, R. Naleway, E. F. Lowe, L. E. Battoe, and Y. Wang. 2015. Phosphorus removal performance of a large-scale constructed treatment wetland receiving eutrophic lake water. Ecological Engineering. 79:132-142.
Other publication
National Academies of Sciences, Engineering, and Medicine. 2017. Proceedings of a Workshop. Flowback and Produced Waters: Opportunities and Challenges for Innovation. Washington, DC: The National Academies Press.
Book chapter
Dunne, E.J., and K.R. Reddy. 2005. Phosphorus biogeochemistry of wetlands in agricultural watersheds. Chapter in Dunne, E.J., K.R. Reddy and O.T. Carton. (eds.). 2005. Nutrient management in agricultural watersheds: A wetlands solution. Wageningen Academic Publishers. pp. 105-119.

SELECT PRESENTATIONS (Full list available)

Dunne, Ed. J., Michael F. Coveney, Erich R. Marzolf, Victoria R. Hoge, Roxanne Conrow, Robert Naleway, Edgar F. Lowe and Lawrence E. Battoe. 2012. Long-term Phosphorus Removal Performance by a Large-Scale Constructed Wetland Treating Lake Water. Presented at the 9th INTECOL International Wetlands Conference: Wetlands in a Complex World. Meeting in Orlando, Florida, June 3-8, 2012.

Dunne, E.J., M.W. Clark, J. Mitchell, J.W. Jawitz, and K.R. Reddy. 2009. Legacy phosphorus in isolated wetlands of dairy, improved and unimproved grazing pasture. Presented at the 2009 Society of Wetland Scientists Annual Meeting in Madison, Wisconsin, June 21-26, 2009.