

Project Manager Qualifications and Organization Description

Paige J. Novak

Associate Professor, Environmental Engineering, Department of Civil Engineering and Founding Fellow of the Institute on the Environment, University of Minnesota

B.S., Chemical Engineering, 1992, The University of Virginia, Charlottesville, VA.

M.S., Environmental Engineering, 1994, The University of Iowa, Iowa City, IA.

Ph.D., Environmental Engineering, 1997, The University of Iowa, Iowa City, IA.

Dr. Paige Novak will be responsible for overall project coordination. She has been studying the fate and biological transformation of micropollutants for over ten years. Recent work has focused on the presence and fate of estrogenic compounds in wastewater, including wastewater flows from industrial facilities. Phytoestrogens have received little attention, yet Dr. Novak has found that these compounds are present in high concentrations in industrial effluents and is currently studying their fate under a variety of conditions. Dr. Novak was the 2007 recipient of the Paul L. Busch Award (Water Environment Research Foundation) for her research on industrial phytoestrogens. She, Dr. Michael Semmens, and Dr. Deborah Swackhamer recently completed an LCCMR-funded project on the presence and fate of estrogenic compounds across two Minnesota wastewater treatment plants. Two manuscripts will be submitted for publication from this work.

Dr. William Arnold (University of Minnesota) is an expert on the chemical transformation of organic chemicals in aquatic systems. For the past seven years he has focused on the photolysis of a wide range of pharmaceuticals. His current efforts are focused on tracking wastewater-derived compounds and their reaction products in the environment.

Dr. Heiko Schoenfuss (St. Cloud State University) has been studying the biological effects of EEs for the past 10 years. His laboratory has pioneered exposure systems at environmentally relevant concentrations in the ng/L range and has integrated field and laboratory studies over multiple levels of organismal complexity.

Organization Description

The University of Minnesota is one of the largest, most comprehensive, and most prestigious public universities in the United States (http://www1.umn.edu/twincities/01_about.php). The laboratories and offices of the PI and co-PIs contain all of the necessary fixed and moveable equipment and facilities needed for the proposed studies.