

# iFAST: The International Forum on Advanced Environmental Sciences and Technology

*A series of distinguished seminars by eminent scientists*

**8 a.m. CDT, 9 a.m. EDT, 1 p.m. GMT, 9 p.m. China**

**Wednesday, March 26, 2025**



**SARAH HOBBIE**  
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Sarah Hobbie is Regents Professor and Distinguished McKnight University Professor in the Department of Ecology, Evolution and Behavior, at University of Minnesota. Hobbie's research focuses on the influence of changes in atmospheric composition, climate and land use on communities and ecosystems, and of urbanization on biodiversity and water quality. She leads the new Minneapolis-St. Paul Metropolitan Area Long Term Ecological Research program, focused on understanding interactions between people and nature in the Twin Cities, and is an active researcher with the Cedar Creek Long Term Ecological Research program. She is a member of the National Academy of Sciences and a Fellow of the American Academy of Arts and Sciences.

## **Managing Pollution of Urban Waters: Sources and Solutions**

**Abstract** Managing excess nutrients remains a major obstacle to improving ecosystem service benefits of urban waters. In this talk, I will describe research we are doing to understand the sources of nutrient pollution to urban lakes and streams in the Twin Cities Metropolitan Area in Minnesota. I will place the work in the context of a relatively new urban Long Term Ecological Research program. I will further describe our work with regulators to target one source of nutrient pollution, tree litterfall into streets. Our work shows that advancing ecosystem-level understanding of urban watersheds can generate insights that promote novel solutions to solving urban water quality challenges. However, implementing these solutions requires close partnerships with local regulators and resource managers.



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