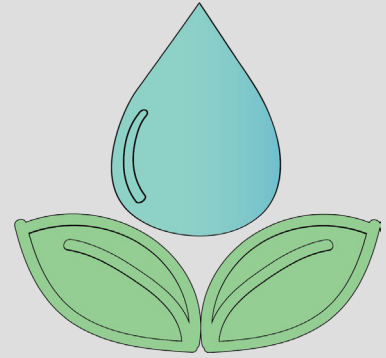


# REIMAGINING URBAN WATER



INTERDISCIPLINARY WORKSHOP | JULY 25-27 2019 | MILWAUKEE, WI

Reimagining Water: Linking Sustainable Urban Water

Systems in the Great Lakes Basin

## Workshop Goals, Process, and Agenda

### Workshop Coordinators:

James Wasley, Professor, School of Architecture and Urban Planning, Co-Director, Institute for Ecological Design, University of Wisconsin-Milwaukee

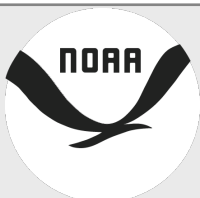
Carol Miller, Professor, Civil and Environmental Engineering, Director, Healthy Urban Waters, Wayne State University

### Location:

All meetings will be held at the  
University of Wisconsin-Milwaukee School of Freshwater Sciences  
600 E Greenfield Avenue, Milwaukee, WI 53204

### This workshop made possible by the following sponsors:

National Science Foundation (NSF)  
National Oceanic and Atmospheric Administration (NOAA)  
Milwaukee Metropolitan Sewerage District  
City of Milwaukee Environmental Collaboration Office  
Fund for Lake Michigan  
Wisconsin Coastal Management Program  
SmithGroup



## Purpose

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To create a shared vision and agenda for collaborative research and actions to sustain the life and livelihoods of Great Lakes waterfront cities and waters.

## Goals

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1. Identify the most pressing needs and compelling opportunities relating to the interaction of Great Lakes cities and their near shore environments; and
2. Craft an interdisciplinary vision for future integrative work that advances the sustainability of these linkages.

## Process

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### **About the workshop process...**

All attending are participants in the workshop.

- **CASE STUDIES:** All participants are invited to submit short case studies to describe actual projects, challenges and barriers in applying green infrastructure projects to urban coast environments, and how the challenges were met.
- **ANNOTATED BIBLIOGRAPHY:** An annotated bibliography of selected references related to Great Lakes research, sustainability, climate action agendas, and green infrastructure references will be distributed to workshop attendees before the workshop. The bibliography will be expanded following the workshop to include references recommended by speakers and workshop participants.
- **PRESENTATIONS:** will provide examples that address the workshop goals and, in turn, suggest avenues for further research, development, and innovation.
- **BREAKOUT GROUPS:** Two rounds of breakout group discussions, each with a facilitator and recorder, give all participants opportunities to contribute to the discussions, to be summarized and recorded as part of the Workshop Proceedings.
- **NETWORKING:** All participants will be listed in a printed “attendee” list with e-mails, for contacts and referrals. On Friday evening, a joint dinner will be scheduled (optional) for those who want to continue in one of Milwaukee’s famous restaurants (and beer halls).
- **WORKSHOP PROCEEDINGS:** Workshop presentations, break-out group notes, key findings and recommendations will be completed after the workshop, as a record of proceedings and shared resource for next steps.

## Breakout Discussion Questions:

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**FIRST DISCUSSION (Friday) – Desired Outcome:** Identify opportunities for and barriers to improving integrative practices for creating sustainable urban water systems; How do we address those barriers to best protect and utilize resources? Target systems could include:

- URBAN RIVER MOUTH
- URBAN WATERSHEDS
- NEAR SHORE AQUATIC SYSTEMS
- LAND-WATER INTERFACE
- MUNICIPAL WATER INFRASTRUCTURE

**SECOND DISCUSSION (Friday) – Desired Outcome:** Envision pathways based on identified opportunities and needs; what new research or collaborations could link sustainable practices for greater effectiveness? Target pathways could include:

- KNOWLEDGE CO-PRODUCTION BETWEEN INDUSTRY, ACADEMIA, GOVERNMENT, PRACTITIONERS AND COMMUNITY
- INNOVATIVE PRACTICES THAT REQUIRE BENCH TESTING, PROOF-OF-CONCEPT, OR SCALING
- REFINEMENTS IN DATA AND ANALYTIC TOOLS
- SCIENTIFIC UNDERSTANDING OF CO-BENEFITS, TRADE-OFFS, SPATIAL AND TEMPORAL SCALES, LEVERAGE POINTS, SOCIO-ECOLOGICAL-TECHNICAL SYSTEMS
- INTEGRATION TOOLS

**THIRD DISCUSSION (Saturday) – Desired Outcome:** Next Steps for crafting a future integrative network; How do we create a community of research and practice and keep it going? What are the funding opportunities?

# Agenda

<b>Thursday, July 25th</b> 1:00pm-8:30pm <i>Defining the Context</i>	<b>Friday, July 26th</b> 8:30am-4:30pm <i>Best Practices</i>	<b>Saturday, July 27th</b> 9:00am-12:00pm <i>Building a SUWS Network</i>
<p><b>1:00pm-5:00pm:</b> <b>PRE-WORKSHOP ACTIVITIES</b></p> <p><b>Arrivals</b> Participants should secure their own transportation from the airport to the Saint Kate Arts Hotel or SFS. For people driving and staying at the hotel, hotel parking is \$28/night. Alternately, you can park at the SFS and take a van to the hotel.</p> <p><b>1:00pm</b> Optional tour of Milwaukee as a Water-Centric City. <u>Van will leave from the SFS and stop at the Saint Kate at 1:05pm.</u></p> <p><b>4:00pm</b> Optional harbor tour on the UWM research vessel Neeskay (The boat will depart from the SFS. <u>A van will leave from the hotel at 3:45pm to SFS.</u></p> <p><b>5:00pm-8:00pm:</b> <b>DEFINING THE CONTEXT: CHALLENGES &amp; OPPORTUNITIES</b></p> <p><b>5:00pm-6:00pm</b> <b>Reception/ salmon boil</b> at UWM School of Freshwater Sciences <u>A van will leave from the hotel at 4:45pm to SFS.</u></p> <p><b>6:15-7:00pm:</b> <b>Welcome &amp; Opening Remarks</b> Jim Wasley, Carol Miller, John Janssen, Drew Gronewold, Don Watson, Michele Adams</p> <p><b>7:00pm-7:15pm: Q&amp;A Panel Discussion</b></p> <p><b>7:15pm-8:00pm:</b> <b>ADVANCING THE STATE-OF-ART OF SUSTAINABLE URBAN WATER SYSTEMS</b> Don Watson, FAIA &amp; Michele Adams, PE</p> <p><b>8:00pm-8:20pm:</b> <b>Audience Discussion &amp; Feedback</b></p> <p><b>8:20pm: Adjourn. Vans to hotel.</b></p>	<p><b>Breakfast not provided. Coffee &amp; pastries at SFS.</b></p> <p><b>8:00am-8:20am:</b> Shuttles from hotel to School of Freshwater Sciences</p> <p><b>8:30am-9:45am</b> <b>PART 1: LINKING G.I. &amp; AQUATIC HABITAT</b> Carol Miller, Emily McKinnon, Sean Burkholder, Chris Glaisek, Jim Wasley</p> <p><b>9:45am-10:00am: 15 minute BREAK</b></p> <p><b>10:00am-12:00pm:</b> <b>Breakout Groups - Round 1</b> (per topics defined - see 'Discussion Questions' pg. 2)</p> <p><b>12:00pm-1:00pm: LUNCH BREAK</b> (box lunch provided) <b>12:50pm: Guest Speaker</b> David Rankin, GLPF</p> <p><b>1:00pm-2:15pm:</b> <b>PART 2: THE EXPANDED FIELD - SUSTAINABLE URBAN SYSTEMS INTEGRATION THROUGH THE MEDIUM OF WATER</b> Patrick Lucey, Jeffrey Nesbit, Steve Apfelbaum, Robert Zimmerman</p> <p><b>2:15pm-2:30pm: 15 minute BREAK</b></p> <p><b>2:30pm-2:45pm:</b> <b>Panel &amp; Audience Discussion</b> <i>Focusing the workshop challenge: the leading questions to pursue.</i></p> <p><b>2:45pm-3:45pm:</b> <b>Breakout Groups - Round 2</b> (per topics defined - see 'Discussion Questions' pg. 2)</p> <p><b>4:15pm-4:30pm: Session Summary</b> <i>What do you recommend as the most promising research and development initiatives to protect and sustain Lake Michigan waters and urban communities around this goal of Sustainable Urban Systems Integration?</i></p> <p><b>4:30pm: Adjourn. Vans to hotel available.</b></p> <p><b>5:00pm: Informal cocktails in the neighborhood. Options TBA.</b></p> <p><b>6:30pm: GROUP DINNER</b> at Braise Restaurant, 1101 South 2nd Street, next door to Rockwell Clocktower. <u>A van will depart hotel at 6:15pm if needed.</u></p>	<p><b>Breakfast on your own. Coffee &amp; pastries at SFS.</b></p> <p><b>8:00-8:30am:</b> Shuttles from hotel to SFS.</p> <p><b>9:00am-9:50am: Speakers</b> Jim Wasley, Brenda Coley, Margaret Noodin, Carol Miller</p> <p><b>9:50am-10:00am: 10 minute BREAK</b></p> <p><b>10:00am-11:15am: Facilitated Discussions, Plenary &amp; Breakout</b> <i>Next Steps to creating a Sustainable Urban Water Systems Research Network for the Great Lakes Basin.</i></p> <p><b>11:15am-11:45am</b> <b>Workshop Summary &amp; Awards</b></p> <p><b>11:45am: Adjourn.</b></p> <p><b>12:00pm: Informal Lunch (options TBA) or Vans to airport.</b></p> <div data-bbox="1110 1150 1516 1541" data-label="Image"> </div> <p><i>This work is supported by NSF Grant Award No. 1929916 through the 2019 Sustainable Urban Systems Conference &amp; Workshop Awards.</i></p> <p><b>Coordinator Contact information:</b> Lara Treemore-Spears: (734) 223-1224 Carol Miller: (313) 706-9060 Jim Wasley: (414) 306-1242</p>