



ENVIRONMENTAL &  
WATER RESOURCES  
INSTITUTE

St. Louis Chapter

THE ASCE ST. LOUIS SECTION AND EWRI PRESENT

*2018 Environmental & Water Resources Institute Spring Seminar*

# **WATER, WATER, EVERYWHERE**

Join us for an informative ASCE/EWRI-sponsored seminar addressing current and emerging water-related topics in our region including drinking water, stormwater, and wastewater.

**Seminar will be held at:**

The Engineering Center  
4359 Lindell Blvd. – St. Louis Missouri, MO 63108  
Friday, March 23, 2017

Registration 7:30 AM to 8:15 AM  
Program 8:15 AM to 3:45 PM  
6 PDHs provided  
Continental Breakfast and Lunch included

**Cost:**

\$60 for Members  
\$90 for Non-members  
\$30 for Students

Sponsorships available for \$150

**Online Registration and Sponsorship Commitment available at the link below:**

**[Register HERE](#)**

**Questions?**

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2018

## AGENDA

|                 |           |                 |   |
|-----------------|-----------|-----------------|---|
| <b>7:30 AM</b>  | <b>to</b> | <b>8:15 AM</b>  | <b>BREAKFAST/REGISTRATION</b>   |
| 8:15 AM         | to        | 8:25 AM         | <b>Welcome and Introductions</b><br><i>Speakers: Elise Ibendahl, P.E., C.F.M., Jacobs</i><br><i>Shirley Clark, Ph.D., P.E., D.WRE, Pennsylvania State University</i>  |
| 8:25 AM         | to        | 9:40 AM         | New MSD Online Plan Review, Permitting & Inspection Website<br><i>Speaker: John Grimm, P.E., Metropolitan St. Louis Sewer District</i>  |
| 9:40 AM         | to        | 10:15 AM        | GIS Project Delivery for Water Infrastructure Projects<br><i>Speakers: Laura Mwirigi Rightler, P.E., C.F.M., Civil Design, Inc.</i><br><i>Jeremy Linley, P.E., C.F.M., Civil Design, Inc.</i>   |
| <b>10:15 AM</b> | <b>to</b> | <b>10:25 AM</b> | <b>BREAK</b>  |
| 10:25 AM        | to        | 11:00 AM        | Retrofitting and Maintenance of Stormwater Treatment Ponds and Traditional Flood Detention Basins for Improved Water Quality, Flood Control and Reuse<br><i>Speaker: Steve Klein, P.E., P.H., Vice President, Barr Engineering Co.</i>  |
| 11:00 AM        | to        | 11:35 AM        | Green Infrastructure Module in SWMM/PCSWMM<br><i>Speaker: Azadeh Akhavan Bloorchian, Ph.D., Southern Illinois University Edwardsville</i>   |
| <b>11:35 AM</b> | <b>to</b> | <b>12:35 PM</b> | <b>LUNCH</b>  |
| 12:35 PM        | to        | 1:10 PM         | Quality Control and Analysis of Field Collected Data to Evaluate the Impact of Green Infrastructures on Stormwater Reduction in Combined Sewers: St. Louis Case Study<br><i>Speaker: Jianpeng (Jim) Zhou, Ph.D., P.E., BCEE, F.EWRI</i><br><i>Southern Illinois University Edwardsville</i> |
| 1:10 PM         | to        | 1:45 PM         | Low Impact Development Implementation in Combined Sewer Areas<br>A Summary of Initiatives Across the U.S.<br><i>Speaker: David Sample, Ph.D., P.E., D. WRE</i><br><i>Virginia Polytechnic Institute and State University</i>  |
| 1:45 PM         | to        | 2:20 PM         | St. Louis MSD's Green Infrastructure Program for CSO Reduction:<br>Overview and Grant Opportunities<br><i>Speaker: Susan McCrary, P.E., Metropolitan St. Louis Sewer District</i>   |
| <b>2:20 PM</b>  | <b>to</b> | <b>2:30 PM</b>  | <b>BREAK</b>  |
| 2:30 PM         | to        | 3:05 PM         | Maintaining Green Infrastructure — What are the Real Costs?<br><i>Speaker: Holly Piza, P.E., Urban Drainage and Flood Control District, Denver, Colorado</i>  |
| 3:05 PM         | to        | 3:40 PM         | The Good, The Bad, and The Ugly Truth About O&M<br><i>Speaker: Ruth Ayn Hocker, P.E., D.WRE, City of Lancaster, Pennsylvania</i>  |
| <b>3:40 PM</b>  | <b>to</b> | <b>3:45 PM</b>  | <b>Closing</b><br><i>Speaker: Jiaman Xu, E.I.T., Civil Design, Inc.</i>   |