

The Ingleside Hotel
Pewaukee, Wisconsin

November 7 - 9, 2018

16th Annual WAFSCM Conference



Wisconsin Association for Floodplain,
Stormwater, & Coastal Management



welcome



Welcome to the lovely Ingleside Hotel in Pewaukee, Wisconsin and thank you for joining us for the 16th annual conference of the Wisconsin Association for Floodplain, Stormwater, and Coastal Management (WAFSCM). We're excited about this year's line-up of workshops, speakers, and the field tour, which will highlight the work and knowledge of our membership and nationally-recognized technical experts. We are a dynamic group of professionals collaborating to share our experience in a variety of water-related issues from all sectors: local government leaders, community administrators, planning agencies, public works departments, developers, consultants, environmental groups, state and federal agencies, and students.

We extend a special welcome to those attending our conference for the first time. You are the newest of our group, as your membership for the next year is included with your conference registration. We hope you enjoy the experience and join us again next year with a colleague or friend. Our 2019 conference will be held in the Wausau area from October 23rd to 25th, at the Central Wisconsin Convention & Expo Center.

The WAFSCM conference always serves as a great opportunity for us to get together for networking and sharing knowledge with our peers. Enjoy the experience and your time at the Ingleside and the beautiful Pewaukee area!

2018 Conference Planning Committee

Wednesday, November 7th

XPSWMM Workshop

XPSWMM Training: Best Practices for Floodplain Management & 2D Analysis

Anthony Kuch, PE CFM, Innovyze

Hardware and software advances now allow engineers to simulate Integrated 1D/2D Hydrologic and Hydraulic simulations with reasonable simulation times. XPSWMM is a nationally FEMA approved model for 1D and 2D hydraulics used extensively nationwide. Recent enhancements to XPSWMM now take advantage of multiple core processors and GPU cards in a new highly parallelized scheme.

Join this 4-hour training class to learn about the new advancements in floodplain modeling using XPSWMM. In this course, you will learn about XPSWMM, the benefits and best practices for floodplain management using XPSWMM, and have the opportunity to run the software to learn how to perform hydrology and hydraulics analysis. The hands-on portion of the training will provide an overview of 1D/2D Modeling. Sample models will be provided to explore how flood maps, hazard maps and evacuation routes can be developed in XPSWMM.

Attendees should bring their own laptop with the software pre-installed. Temporary license dongles and keys will be provided to users who do not have an active license. Administrative privileges are required for installation of the software, and attendees who plan to install the software during the training should have administrative privileges for their laptop.



general information



Engineering Ethics Workshop

Does Being Ethical Make Good
Visual Sense?

*Dr. Gaurav Bansal, University of Wisconsin
– Green Bay*

The session will focus on how misrepresentation of data, bad data, and/or wrong choice of visualization could lead to incorrect perception, wrong cognition, and thus erroneous action. Poor and misleading visualizations are not only often unethical, but also inefficient and ineffective. In this session we will assess how data and design work together, including how to choose the appropriate visual representation for your data, and the difference between effective and ineffective visuals. The workshop will cover design principles and theories based on the work of eminent data visualization scientists such as William S. Cleveland and Edward R. Tufte.

Evening Reception and Game Night

At the evening reception you will have a chance to meet and learn from the exhibitors and join in continued networking opportunities in an information setting over heavy appetizers (including gluten free options). Food will be served from 4pm to 7 pm with a cash bar from 4pm to 9pm. Come prepared to participate in game night, which continues until 9pm.

Thursday, November 8th

This is the main day of the conference. The day starts with a full breakfast and an early morning business meeting with the WAFSCM Board. Following the breakfast/business meeting are: Opening plenary session, concurrent breakout sessions, lunch with awards event and plenary speaker, and closing plenary session. Door prizes are the last part of the regularly scheduled day. Your full-day conference registration includes a 2019 WAFSCM membership. A more detailed conference schedule with speaker session topics is available later in this brochure.

Friday, November 9th

Susan Coyle of MMSD will lead a tour of three different Milwaukee area projects, including the South Shore Stormwater project, Re-imagining the Kinnickinnic River from 6th Street to Pulaski Park, and the Underwood Creek Rehabilitation project. Concrete removal and flood protections will be highlighted in two of the stops, and using fungi for water quality benefits will be highlighted at the South Shore Stormwater project.

Professional Development

Professional Development Hours (PDHs) and Continuing Education Credits (CECs) can be earned at the workshops, main conference, and tour. Up to 14 PDHs and 12.5 CECs may be credited for attendance of the entire conference. Forms to record your attendance will be made available at the end of each day.



A special thanks to SEWRPC for their
continued support!

general information



awards

WAFSCM accepted nominations for awards to be presented at the 2018 conference. Members were asked to nominate deserving parties for any of the four categories below. Self-nominations were accepted for the Excellence in Project Design or Implementation award.

award categories:

- Chapter Service Award
- Local Award for Excellence
- Excellence in Project Design or Implementation Award
- Lifetime Achievement Award

See WAFSCM.org for additional information.

sponsors and exhibitors

Every great conference needs wonderful sponsors and exhibitors and we are no different. We have a wide range of opportunities to support next year's conference. Details are available on the WAFSCM website or contact Heather Schwar at 414-617-7891 or heather.schwar@cardno.com.

sponsors

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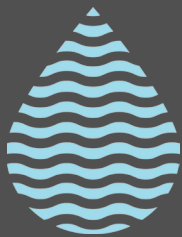
Any conference questions can be directed to Conference Co-Chairs:



Laura Rozumalski | lrozumalski@freshwatereng.com | 608-616-0128

Megan Bender | megan.bender@jacobs.com | 414-847-0208

schedule of events



Wednesday, November 7			
9 am - 2 pm	XPSWMM Training: Best Practices for Floodplain Management and 2D Analysis		
9 am - noon	CFM Exam		
2 pm - 4 pm	Engineering Ethics Presentation: Does Being Ethical Make Good Visual Sense? Dr. Gaurav Bansal, University of Wisconsin - Green Bay		
4 pm - 9 pm	Evening Reception (4 pm - 7 pm, appetizers & cash bar; 7 pm - 9 pm, game night open to all)		
Thursday, November 8			
7:30 am	Registration, Exhibits, and Breakfast Buffet		
8 am	Business Meeting		
9 am	Opening Remarks / Plenary Session News from ASFPM, Flood Science Center Director, Bill Brown		
10 am	Break and Exhibits		
10:30 am	Concurrent Sessions		
	Woodfield A	Woodfield B	Woodfield C
Moderator	Jake Brunoehler	Peter Shedivy	Dan Cook
	The Stormwater Benefits of Creating High Performance Urban Trees , <i>Jeremy Bailey</i>	Historic Mitchell Street Green Parking Lot , <i>Cassandra Bence</i>	County Hazard Mitigation Planning in Wisconsin , <i>Angela Kowalzek-Adrians</i>
	Calculating Stormwater Volume and Total Suspended Solids Reduction under Urban Tree Canopy in Wisconsin Using Available Research , <i>Steve Gaffield & Dane Wudel</i>	Watershed Scale Underground Storage and Advanced Treatment Applications , <i>Matt Kamenick</i>	Coastal Floodplain Management , <i>Michelle Staff</i>
11:30 am	Lunch and Awards: Plenary speaker, Statewide Record Flooding, Katie Sommers, CFM, Wisconsin Emergency Management		
1 pm	Concurrent Sessions		
	Woodfield A	Woodfield B	Woodfield C
Moderator	Chris Goodwin	Michelle Staff	Lou Ann Patellaro
	Navigating the Floodplain Study Approval Process with WI DNR , <i>Chris Olds</i>	Building Coastal Resilience in Southeastern Wisconsin through Research, Education, and Collaboration , <i>Adam Bechle</i>	The Community Rating System (CRS) Credits and Documentation , <i>Lou Ann Patellaro</i>
	Wisconsin Elevation Mapping: Statewide Completion of Lidar, Development of Hydro-enforced Products and Planning for Future Needs , <i>Jim Giglierano</i>	Using Computational Fluid Dynamics (CFD) Modeling Effectively: Weighing the Advantages and Disadvantages of CFD Modeling , <i>Brent Teske</i>	
2 pm	Break and Exhibits		

schedule of events



2:30 pm	Concurrent Sessions		
	Woodfield A	Woodfield B	Woodfield C
Moderator	Elizabeth Marks	Ginny Plumeau	Nick Jordan
	Using Air-Cooled Blast Furnace Slag to Remove Ortho Phosphorus from Stormwater, <i>Todd Weik</i>	Green Infrastructure Planning on a Watershed Scale, <i>Carrie Bristoll-Groll</i>	Midwest Urban Stream Restoration: Two Case Studies that Rehabilitate Ecological Function in a Developed Landscape, <i>Brent Brown</i>
	How the “Hanging Levee” Technique in FEMA’s 2018 Levee Guidance is Being Applied in the Milwaukee Area, <i>Rich Klein</i>	Neighborhood Outreach and Green Infrastructure Installation: Shorewood and Greenfield Neighborhoods, <i>Adrienne Cizek</i>	Floodplain Management Plans - Arcadia, WI Case Study, <i>Daniel Cook and Joe Waln</i>
3:30 pm	Break and Exhibits		
3:45 pm	Closing Plenary: Milwaukee Metropolitan Sewerage District’s Integrated Watershed Management Programs, Kevin Schafer, MMSD		
4:45 pm	Closing Remarks, Door Prizes and PDH Certificates		
Friday, November 9th			
9:30 pm - 1 pm	Field Trip: Tour of three different Milwaukee area projects, including the South Shore Stormwater Project, Re-imagining the Kinnickinnic River from 6th Street to Pulaski Park, and the Underwood Creek Rehabilitation Projects		

exhibitors

