

A newsletter for people concerned with water management issues.

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2018 WAFSCM Award Winners

**2019 WAFSCM
Conference will be held
October 23rd – 25th at**

**Central Wisconsin
Convention & Expo Center
10101 Market St
Rothschild, WI 54474**

Message from the Editor

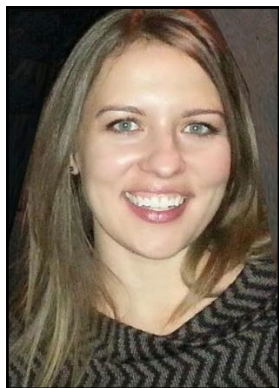
The WAFSCM newsletter is published twice a year to update members on chapter activities and to provide information on publications, seminars, etc. that may be beneficial to our water community. If you have articles, announcements, or other information that you would like us to include in future newsletters, please forward it to me at BPowers@scsengineers.com.

Thank you to all the newsletter contributors and to Rhonda Janos for the newsletter preparation.

Betsy Powers, P.E.

Newsletter Editor

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Message from the Chair

Laura Rozumalski, PE

Hello WAFSCM Members,

Welcome to WAFSCM 2019! We have another exciting year ahead of us.

I'm happy to announce we have a new chair for our education committee. Thanks very much to Terry Tavera of Ruekert Mielke for filling the position. We are thrilled to have his participation and look forward to the committee getting up to full speed again. If anyone would like to join the committee to assist Terry, please reach out to him at ttavera@ruekert-mielke.com.

ASFPM is looking for feedback on ways they can be more supportive of members and provide additional value to water resources professionals. Katie Sommers of Wisconsin Emergency Management is compiling feedback on behalf of ASFPM. Feel free to reach out to her at Katie.Sommers@wisconsin.gov if you have any recommendations on ways ASFPM can provide assistance, resources, or services to WAFSCM that would be beneficial.

Speaking of ASFPM, don't forget their 43rd annual conference is being held in Cleveland, Ohio this year from May 19th-23rd. The theme for this year's conference is Flood Fest 2019: The Mitigation and Resilience Tour. As usual, they have put together an engaging and educational agenda, which is sure to include some very interesting presentations covering topics related to the many record flood events last year. Additional information can be found at their website: <http://www.asfpmconference.org/2019/>.

Lastly, thanks very much to everyone who participated in our annual conference. We are grateful you were able to take the time to attend and we'll look forward to seeing you again at our events throughout the year. Please be sure to save the date for the WAFSCM annual conference. This year we will be in Wausau, WI from October 23rd-25th. We are just starting on the detailed planning efforts, so if you'd like to get involved with the planning process, or any other WAFSCM function, please get in touch!

All the best,

Laura Rozumalski, PE
FreshWater Engineering
WAFSCM Chair
lrozumalski@freshwatereng.com



2018 WAFSCM Conference Recap

The Wisconsin Association for Floodplain, Stormwater, and Coastal Management (WAFSCM) held its 16th annual conference on November 7 – 9th at the Ingleside Hotel in Pewaukee. The lineup included the certified floodplain manager (CFM) exam and two workshops to choose from on the first day, including an Engineering Ethics workshop put on by Dr. Gaurav Bansal of UW – Green Bay on ethical presentation of data and a workshop put on by Innovyze on 2D analysis in XPSWMM software.

The main conference day included opening remarks by Bill Brown, the Flood Science Center Director of the Association of State Floodplain Managers (ASFPM). The first set of breakout sessions focused on managing storm water through various means, hazard mitigation planning in the State of Wisconsin, and National Flood Insurance Program requirements for coastal construction.

The lunchtime plenary session was a riveting presentation by Katie Sommers of Wisconsin Emergency Management on record flooding in the state of Wisconsin for 2018. Following lunch, the first set of afternoon breakout sessions included discussions on digital elevation mapping, building coastal resilience, Computation Fluid Dynamics (CFD) modeling, and the Community Rating System.

The last set of breakout sessions of the day included methods for removing pollutants from storm water runoff, a discussion of FEMA's levee guidance, additional green infrastructure topics, and urban stream restoration. The closing plenary session was presented by Kevin Shafer of the Milwaukee Metropolitan Sewerage District (MMSD) and covered MMSD's Integrated Watershed Management Programs.

To close out the day, Paul Osman from Illinois Department of Natural Resources (DNR) and Michelle Staff from Wisconsin DNR gave a memorable presentation on a new program that the Illinois chapter has initiated to help flooded communities called [Rapid Assistance Flood Team \(RAFT\)](#), in which a mobile task team would be deployed during disaster events to provide shared resources, reporting, etc.

The field trip on Friday was to the Ecosystem Restoration and Kilbourn Dam Tour. Susan Coyle of MMSD led the 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. The main focus of the tour was flood protection and stream naturalization.



2018 WAFSCM Award Winners

The WAFSCM Board was pleased to present two awards at the 2018 conference. The first was for Excellence in Project Design and was jointly awarded to Milwaukee County Parks and Stormwater Solutions Engineering, LLC for their work on the South Shore Park Beach Project. This project improved a badly contaminated beach and swimming area by 1) replacing the existing parking lot and redirecting runoff, 2) installing bioretention cells with enhanced woodchips to treat runoff prior to discharge to the beach and Lake Michigan, 3) enhancing safety by realigning traffic flow, improving the bike path, and installing an accessible pedestrian promenade, and 4) adding interpretive signage for green infrastructure improvements. This project also won a [Top Project award](#) from Storm Water Solutions magazine.

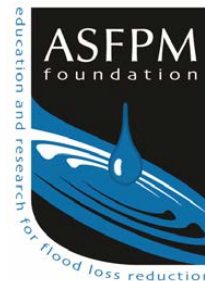


Design photo left to right – Laura Herrick (WAFSCM Awards Chair, SEWRPC), Sarah Toomsen (Milwaukee County Parks), Adrienne Cizek and Carrie Bristoll-Groll (Stormwater Solutions Engineering, LLC)



Laura Herrick (WAFSCM Awards Chair, SEWRPC), Mike Hahn (SEWRPC, now retired)

The second award presented was a Lifetime Achievement Award to Michael G. Hahn, Executive Director (now retired) of the Southeastern Wisconsin Regional Planning Commission (SEWRPC). Mr. Hahn has provided great leadership and service to southeastern Wisconsin, its communities and residents during his 32-year career at SEWRPC. He led many important water resource planning efforts, including floodplain mapping, a major water quality plan update, numerous watershed and local stormwater management plans, and initiating the Regional Chloride Impact Study.



Best Practices and Case Studies Compendium Library

Best practices and case studies are effective tools to highlight State and local initiatives to reduce flood risks at the local and regional level. The ASFPM Floodplain Management Best Practices and Case Studies Compendium catalogues best practices and case studies in a searchable format for online viewing; this will increase accessibility and usefulness to the reader. This project, funded by the ASFPM Foundation, was completed a few months ago and is now ready for prime-time use!

ASFPM's Flood Science Center collected twenty five best practices and case studies that comprise the compendium. This project created a typology that established the means to organize and index case studies associated with best practices. Sources included the ASFPM's No Adverse Impact (NAI) How-to-Guide; "The Nature Conservancy's Naturally Resilient Communities Project;" and the FEMA Cooperating Technical Partners (CTP) mentoring project.

- **NAI How-to-Guides:**

To further ASFPM's No Adverse Impact™ initiative, ASFPM developed a series of No Adverse Impact How-to-Guides. These How-to-Guides were developed for each of the Building Blocks in the publication entitled "No Adverse Impact: A Toolkit for Common Sense Floodplain Management."

- **Naturally Resilient Communities:**

The Nature Conservancy (TNC) contracted with ASFPM to assist in developing a guide and case studies for the mainstreaming of natural infrastructure, such as comprehensive planning, education of developers, relocation of property, the raising of infrastructure, and floodplain regulations, to address coastal and riverine flooding.

- **CTP Support:**

FEMA contracted with ASFPM to help support the Cooperating Technical Partners (CTP). The CTP Program is a partnership between FEMA and participating NFIP communities, regional agencies, state agencies, tribes, and universities that have the intent and capability to become a more active participant in FEMA's mapping program. The project involved documenting best practices and providing training, such as automatic engineering tasks.

These best practices and case studies can be important and very useful at the State and local levels in designing programs or projects to reduce their flood risks. The Best Practices and Case Studies Compendium can be found at the ASFPM Flood Science Center by [clicking here](#).

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SAVE THE DATE!!!!

We are pleased to announce the

17th Annual WAFSCM Conference - 2019

October 23rd – 25th, 2019

**Central WI Convention & Expo Center
10101 Market St, Rothschild, WI**

Details on registration, sponsorships, speakers and award submittals, scholarships, and conference content will be posted to the WAFSCM website. www.wafscm.org
We plan to fill 3 tracks for the breakout sessions – one each for stormwater, floodplains, and coastal projects/issues.

Plan your abstract submittals - a request will be sent soon!

Schedule:

Wednesday 10/23: Workshops and Networking

Thursday 10/24: Main Conference Day (plenary and breakout sessions)

Friday 10/25: Morning Field Tour

We will host the CFM exam this year!

Contact one of the Conference Co-Chairs:

Laura Rozumalski at lrozumalski@freshwatereng.com

or

Megan Bender at megan.bender@jacobs.com

for more information.

WAFSCM Conference Planning Help



Interested in joining a WAFSCM committee? Consider joining the 2019 WAFSCM Annual Conference Planning Committee. We would love your help! If interested, please reach out to Megan Bender, or any of the board members listed at the end of this newsletter.



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Job Postings

Did you know WAFSCM posts WAFSCM-relevant job postings on our website?

Check it out on our website at <http://www.wafscm.org/training-education/news-events/>!

Looking for HEC-RAS Training?

University of Wisconsin-Madison HEC-RAS Classes – ASFPM Member Discounts Offered
The University of Wisconsin-Madison (UW-Madison) has an agreement with the Association of State Floodplain Managers (ASFPM) whereby ASFPM members can receive a discount to attend the UW-Madison's various HEC-RAS classes, which have been approved for CFM credit.

This Spring, the University of Wisconsin-Madison is offering two outstanding HEC-RAS classes, both in online and in-person format. Using the latest version of HEC-RAS 5.0.5., these classes provide individualized instruction, including direct contact with Vern Bonner, P.E., the course instructor.

Using HEC-RAS to Model Bridges, Culverts, and Flood Plains covers everything you need to be a confident HEC-RAS user.

Using the New HEC-RAS Mapper Applications is designed to help you import Terrain models, develop River-Reach data and generate output displays.

Both courses are offered online or in-person. Here is a link to the full course descriptions:
<https://epd.wisc.edu/hec-ras-training/>

Here is the link to the ASFPM member discount page: <https://epd.wisc.edu/asfpm>



Thank you to the 2018 WAFSCM Conference Sponsors and Exhibitors!

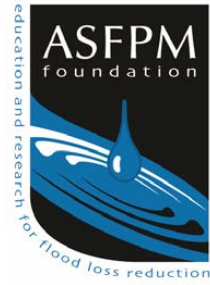
We had a great conference in Pewaukee last November, and a lot of that success is due to the wonderful Sponsor and Exhibitor support. The contributions from our Sponsors and Exhibitors helps WAFSCM provide a quality conference at a very reasonable cost, so please let them know you appreciate their support. In addition, they provided wonderful raffle prizes for our event. All the Sponsors and Exhibitors are acknowledged in this newsletter.

I loved working with all of our long-term Sponsors and Exhibitors prior to the 2018 conference. I also would like to thank Peter Shedivy (HNTB) and Karin Hollister (SEWRPC) for their assistance at the conference, ensuring the day ran smoothly for the sponsors and exhibitors. I will be reaching out to find some new supporters for the 2019 conference. If you are interested in being a sponsor or exhibitor at the 2019 conference, would be willing to provide a raffle item, or have any questions, please contact Heather at heather.schwar@cardno.com.

By Heather Schwar, 2018 Conference Sponsor and Exhibitor Coordinator

2018 SPONSORS	GOLD	JACOBS	FRESHWATER ENGINEERING
		AYRES ASSOCIATES	
		GRäEF	
SILVER		Ruekert • Mielke	
	BAXTER & WOODMAN Consulting Engineers	M² ENGINEERING	
	OAKCREEK — WISCONSIN —		
BRONZE		OMNI ASSOCIATES	
	CDM Smith	HNTB	Cardno
	Hey and Associates, Inc. Engineering, Ecology and Landscape Architecture		
A special THANKS to SEWRPC for their support.			

2018 EXHIBITORS	Innovyze	M² ENGINEERING	raSmith CREATIVITY BEYOND ENGINEERING
	COUNTY MATERIALS CORPORATION	StormTrap MODULAR CONCRETE STORMWATER MANAGEMENT	AYRES ASSOCIATES
	ISO	WISCONSIN DEPT. OF NATURAL RESOURCES	BLOCKSOM & CO. Storm Water Inlet Filter
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	WAFSCM Wisconsin Association for Floodplain, Stormwater, & Coastal Management		



Availability of NAI How-To-Guides to Achieve a Resilient Community

In 2013, The ASFPM Board of Directors approved the development of seven *No Adverse Impact (NAI) "How-To-Guides."* This was a direct result of feedback from ASFPM members who used the NAI Toolkit which provided examples of NAI techniques, but didn't go into detail about how these techniques could be implemented in a "real world" setting. The ASFPM Foundation provided funding for the development of these *How-To-Guides*.

The NAI Toolkit identified seven "building blocks" or areas of community involvement that can have an impact, and the *How-To-Guides* are in alignment with these seven areas:

1. Hazard identification and floodplain mapping
2. Education and outreach
3. Planning
4. Regulations and development standards
5. Mitigation
6. Infrastructure
7. Emergency Services

Six of the seven guides have been completed and are available on the ASFPM [website](#). Content for the seventh guide, *Emergency Services*, has been completed and is in its final design stage and will be posted to the website soon.

The *How-To-Guides'* ultimate goal is to encourage communities to take a different approach to managing development that results in reduced flood risk; this can be accomplished by incorporating NAI techniques into a community's flood risk reduction activities. The *How-To-Guides* break down the information by topic in a user-friendly way that is easily understood and that communities can apply to their own unique circumstances. The Foundation truly believes the more NAI techniques a community implements, the better prepared the community is for the next flood event – not if, but WHEN it occurs.

Communities striving for a more resilient future in the aftermath of a flood event should consider using these guides. The *How-To-Guides* can be found on the ASFPM website by [clicking here](#).



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WAFSCM Board Members—2019	
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