

FINAL AGENDA

9th Annual Bay-Wide Stormwater Retreat

May 10 and 11, 2019

National Conservation Training Center
Shepherdstown, West Virginia



Agenda for 2019 Bay-wide Stormwater Retreat

RETREAT AGENDA AT A GLANCE		
DAY 1: May 10th		
10:00 – 10:30	A. Welcome, Orientation & Opening Remarks (Auditorium) (EPA, NFWF and CSN)	
	Track 1: Stormwater Strategy	Track 2: BMPs New and Old
10:45 – 12:00	B. Developing an MS4 Managers Academy (151 IW)	C. Stream Restoration Revisited (Auditorium)
12:00 - 1:30	LUNCH	
1:30 – 3:00	D. Stormwater Strategies in the Phase III WIPs (151 IW)	E. Envisioning the Next Generation of Stream Restoration (Auditorium)
3:00 – 3:15	BREAK	
3:15– 4:30	F. Scaling up BMP Delivery in Large MS4 Communities (151 IW)	G. Expanding Urban Forests Across the Bay (Auditorium)
4:30 – 5:00	BREAK	
5:00 – 6:00	H: Winners Project Showcase: Best Urban BMP in the Bay Awards (Auditorium) <ul style="list-style-type: none"> • Best Habitat Creation in an Urban BMP • Best Residential BMP • Best Stream Restoration Project • Best Ultra-urban BMP in the Bay • Best Stormwater Retrofit • Best Education and Outreach Program • Most Sustainable Facility 	
6:00 - 7:30	DINNER	
7:30 -8:00	Evening Reception and Informal Networking Event StoneRoller Award Ceremony <i>Roosevelt Room in the Commons</i>	
<i>IW= Instructional West</i>		

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DAY 2: May 11th		
7:30 – 8:30	BREAKFAST	
	Track 3: Next Gen Stormwater	Track 4: Building Capacity
8:30 - 8:45	I1. Recap and Opening Remarks (151 IW)	I2: Recap and Opening Remarks (201 IE)
8:45 – 10:15	J. Plastics and Urban Stormwater (151 IW)	K. Beyond the Homeowner: Delivering to Businesses, Churches and Institutions (201 IE)
10:15 - 10:30	BREAK	
10:30 - 12:00	L: Next Generation of Stormwater Design Criteria (151 IW)	M. Behavior Change 201: New Tools for Improving your Outreach (201 IE)
12:00 - 1:30	LUNCH	
1:30 – 3:00	N. Climate Change and Stormwater (151 IW)	O. Regional Collaboration, Circuit Riders and Small Communities (201 IE)
3:00 – 3:15	BREAK	
3:15 - 4:45	P. Advances in Stormwater Monitoring and Technology (151 IW)	Q. Making Urban BMP Inspection a Local Reality (201 IE)
5:00 – 5:30	BUBBA's Grand Prize Award Ceremony (Roosevelt Room in the Commons)	
5:30 – 7:30	DINNER	
7:30 --	<i>Informal Networking Roosevelt Room in the Commons</i>	
<i>IW = Instructional West IE = Instructional East</i>		

Day 3: May 12th	
7:30 – 8:30	BREAKFAST
8:30	Depart (Box Lunches Available for Pickup)

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Session Details

A. Welcome, Orientation & Opening Remarks (Auditorium). This general session will welcome and orient the participants to the retreat, provide some perspectives on the future of Bay stormwater, and recognize new NFWF grantees in attendance.

- Dana Aunkst, Director, EPA Chesapeake Bay Program
- Jake Reilly, NFWF
- Jennifer Missett, CSN President

B. Developing an MS4 Managers Academy (151 IW). The job description of the local municipal stormwater manager has become more complex as new MS4 permits become more prescriptive. The panelists in this session will explore the training and technical needs of modern stormwater managers and how they can answer the following questions.

- What sort of training resources are needed to fill this skills gap in the next two years?
- What technical knowledge is essential to be mastered to become an effective local MS4 manager?
- What are the critical management and communication skills good MS4 managers need to learn?
- What are the primary regional hubs to focus on in the Bay watershed where the small community needs are most acute?

This session will give stormwater stakeholders a chance to provide feedback on the design of support systems for these critical stormwater professionals.

Moderator: Joe Battiata, Hopewell, VA

Panelists:

- Matt Pennington, Region 9 West Virginia
- Dave Hirschman, Hirschman Water and Environment
- Ruth Minich-Hobson, VA DEQ
- Andy Yench, Penn State Extension

C. Stream Restoration Revisited (Auditorium): Over the past year, a collection of over 65 stream restoration practitioners from the public and private sector have been working to revisit the stream restoration expert panel report and recommend new guidance to improve how the protocols are applied in the field. David Wood from CSN will provide an update of the progress from all four groups:

Stream Restoration Verification
Outfall Restoration Practices
Prevented Sediment Protocol

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Floodplain and Stream Reconnection

The remainder of the session will be devoted to an audience discussion on how the new guidance can be effectively disseminated across the Bay stream restoration community.

Moderator: Jeremy Hanson, Virginia Tech

D. Stormwater Strategies in the Phase III WIPs (151W). The draft Phase III Watershed Implementation Plans (WIPs) were released in April 2019. This session will focus on the strategies to address the remaining urban loads from the perspective of local and regional partners:

Co-Moderators:

- Norm Goulet, Northern Virginia Regional Commission
- Lucinda Power, EPA Chesapeake Bay Program Office

Panelists:

- Michelle Edwards, Rappahannock-Rapidan Regional Commission
- Karl Berger, Metro Washington Council of Governments
- Ruth Hocker, City of Lancaster

E: Stream Restoration Revisited Part 2: envisioning the next generation of urban stream corridor restoration projects (Auditorium): This session looks beyond our current stream protocols and design to share a future vision for the urban stream restoration practice. Our stream gurus will explore topics such as:

- What will the next generation of stream restoration projects look like and how will they be designed?
- What will be needed to reconnect floodplains, create wetland complexes and establish robust floodplain plant communities?
- How can we make our projects more resilient to both climate change and invasive plants?
- How will we improve functional uplift and ecosystem services provided by the next generation of stream projects?

Moderator: Sadie Drescher, Chesapeake Bay Trust

Panelists:

- Shannon Lucas, KCI
- Kip Mumaw, Ecosystem Services
- Josh Running, Stantec
- Joe Berg, Biohabitats
- Chris Becraft, Underwood and Associates

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F. Scaling up BMP Delivery in Large MS4 Communities (151 IW): Our larger Phase 1 MS4 communities are no strangers to increased BMP delivery. This panel will share their experience so far, and tackle key questions such as:

- What has worked in terms of cost-effective local project delivery, what has not, and for what contracting experiments is it too soon to tell?
- What could state and federal agencies do to streamline the delivery process and provide more certainty?
- Is there still a future for the P3 model to deliver projects or is there something better coming down the road?

The audience will get a chance to provide their feedback on what works best and what can be best transferred to their communities.

Moderator: Jen Missett, Team Leader, Biohabitats

Panelists:

- Erik Michelsen, Anne Arundel County, MD
- Frank Dawson, Montgomery County, MD
- Jesse Maines, City of Alexandria, VA

G. Expanding Urban Forests (Auditorium): The urban sector is lagging when it comes to planting trees, forests and buffer BMPs to meet pollutant reduction goals for the Bay pollution diet, especially in the ex-urban areas. This session will discuss new (and old) strategies for taking this green approach to a higher level throughout the watershed.

Moderator: Sally Claggett, Chesapeake Bay Forestry Coordinator, U.S. Forest Service

Panelists:

- Brian Keightley, Fairfax County
- Robert Corletta, DDOT - Urban Forestry Division
- Mark Conway, Baltimore Tree Trust
- Randy Greer, DE DNREC

H. The Best of the BUBBAs Showcase (Auditorium): Project winners within each BUBBA category will get a chance to showcase the unique design and implementation challenges they overcame to win their awards.

- Best Habitat Creation in an Urban BMP
- Best Residential BMP
- Best Stream Restoration Project
- Best Ultra-urban BMP in the Bay
- Best Stormwater Retrofit
- Best Education and Outreach Program
- Most Sustainable Facility

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I. Morning Recap and Opening Remarks (151 IW and 201 IE)

J. Plastics in Stormwater (151 IW): This session will focus on recent research to characterize the types of plastics that are impacting urban watersheds and showcase programs aimed at working with local communities to reduce them.

Moderator: David Wood, CSN

Panel:

- Julie Lawson, D.C. Mayor's Office
- Zach Rybarczyk, DOEE

K. Beyond the Homeowner: Delivering BMPs for Businesses, Churches and Institutions (201 IE). This session will focus on the challenges and rewards to working with institutional properties on stormwater issues and the public/private partnerships that lead to success in this area.

Moderator: Lou Etgen, Gunpowder Conservancy

Panelists:

- Ashley Traut, Blue Water Baltimore
- Stavros Calos, Ablemarle County, VA
- Kip Mumaw, Ecosystem Services

L. Next Generation of Stormwater Design Criteria (151 IW): This panel of notable stormwater design and research experts will be asked to share their insights on:

- what we have learned to improve the runoff reduction, pollutant removal and climate resilience of new stormwater practices built for new or redevelopment
- how we can efficiently incorporate this knowledge into Bay-wide design criteria to better manage new or redevelopment projects

The session will include a broader conversation on how these ideas can be implemented at the local and state level in the Bay watershed.

Moderator: Cecilia Lane, DOEE

Panelists:

- Kelly Lindow, CityScape Engineering
- Dave Hirschman, Hirschman Water and Environment, LLC
- Sarah Lane, MD DNR
- Dave Sample, Virginia Tech
- Grace Saunders, Elizabeth River Project

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M. Behavior Change 201: New Tools and Resources for Improving Your Outreach (201 IE). More than 18 million people live in the Chesapeake Bay Watershed. More than 18 million people make decisions and take actions each day that affect the health of the Bay. New data and resources exist to help all of us apply the principles of behavior change to engage this vast audience in our Bay restoration work.

This workshop offers a sneak peek at a new tool to assist with behavior change campaigns. We'll use the tool to dive into community based social marketing for behavior change, focusing on behavior and audience selection and campaign development. Bring your outreach ideas and observations and we'll show you how to apply the principles of behavior change to improve your outreach program.

Co-Moderators:

- Suzanne Etgen, Anne Arundel County Watershed Stewards Academy
- Steve Raabe, OpinionWorks

N. The Future of BMP Design in a Changing Climate (151 IW): This session will look at how we design and implement our stormwater practices to improve their climate resiliency. We will discuss potential changes to local precipitation regimes and the implications for local BMP design. We will also discuss future research and management priorities.

Moderator: KC Filipino, Hampton Roads Planning District Commission

Panelists:

- Tarig Omer, City of Virginia Beach
- Lewis Linker, U.S. EPA Chesapeake Bay Program Office
- Rebecca Stack, Design Green LLC

O. Regional Collaboration, Circuit Riders and Small Communities (201 IE): Small communities represent a majority of the developed land in the Bay watershed and pose unique challenges when it comes to managing stormwater. How might regional collaborations improve our capacity to serve these critical communities, and what do they really need from technical service providers? The session will explore new developments in funding and creating these regional partnerships, and provide stakeholders an opportunity to provide input on establishing sustainable hubs.

Moderator: Kristen Saacke-Blunk, Headwaters LLC

Panelists:

- Joe Rieger, Elizabeth River Project
- Tom Leigh, Eastern Shore, Chesapeake Bay Foundation
- Shawn Ralston, James River Association
- Allyson Gibson, Lancaster Clean Water Partners
- Donna Fisher, Blair County Soil Conservation District

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P. *Advances in Stormwater Monitoring and Technology (151 IW)*: In this rapid-fire session, notable experts will update you on the latest and greatest in stormwater technology and monitoring. These ten-minute presentations will let you need to know about:

Advances in biochar: Paul Imhoff will give a summary on his recent research findings on how biochar amendments can reduce runoff and trap pollutants

Your next industrial stormwater permit: Dr Shirley Clark will give you an early look on the National Academy of Science panel's recommendations on what should be in the next generation of industrial stormwater permits.

Recent improvements in smart BMPs. Victor Hlas will describe how recent research and demonstration work is influencing smart BMP technology

Prospects for very, very large retrofits: Tom Schueler will go over the future prospects for crediting pollutant removal in large bodies of urban waters, such as reservoirs, borrow pits and recreational impoundments

Moderator: Jeremy Hanson, Virginia Tech

Q. *Making Urban BMP Inspection a Local Reality (201 IE)*: This session will explore how we improve the quality and impact of our local inspection efforts. The panel will discuss how to better support BMP verification while minimizing paperwork and staff effort, how to simplify reporting and tracking efforts, and how to create a feedback loop so that maintenance problems encountered in the field are fixed/prevented in future designs

Moderator: Ted Scott, SMC

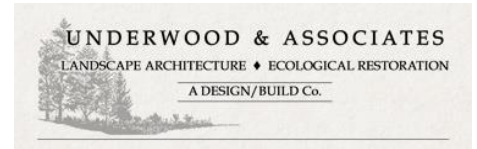
Panelists:

- Heather Gewandter, City of Rockville, MD
- Beth Ginter, Chesapeake Bay Landscaping Professionals
- Elaine Webb, State of Delaware

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