



# 2016 National Watershed & Stormwater Conference

## PRELIMINARY CONFERENCE PROGRAM

Last update: March 18, 2016





---

# Thank you to our sponsors...

## Platinum

---



**S T R A U G H A N**  
**E N V I R O N M E N T A L**

## Gold

---



## Silver

---



Connecting Nonprofit Organizations  
to Policymakers and the Media

[www.thehatchergroup.com](http://www.thehatchergroup.com)





# Welcome to the Center for Watershed Protection's 2016 National Watershed & Stormwater Webcast Conference!

This unique format allows us to connect a much broader audience and give attendees a chance to network with each other and with a variety of professionals around the country.

As the issue of water continues to grow in prominence, this event is designed to communicate the state-of-the-art tools and practices in use around the country and begin dialogue about regional differences in application. The conference aims to encourage a more rapid pace of implementation of the best practices in watershed and stormwater management.

The major conference themes include areas where municipalities are often faced with regulatory challenges and questions. Sessions include pollution prevention, post-construction stormwater management, illicit discharge detection and elimination, and special MS4s.

Registrants can choose the on-line format or the special hub locations that include Baltimore/ Washington; Omaha, Nebraska; Connecticut; Atlanta, Georgia; Sacramento, California; and Coeur D'Alene, Idaho. Every participant will hear the nationally broadcasted information while registrants of the local hub locations will hear about special regional topics and network with attendees of the respective locations.

Please take advantage of the opportunities offered by the conference and enjoy the hand-picked presentations that distinguish the Center's conferences from others, engage in facilitated interactive sessions, and don't forget to have fun!

As always, your feedback and comments are welcome to help us improve our future events. We look forward to engaging with you throughout the event.



**Chris Swann**  
*Project Manager for the  
2016 National Watershed and  
Stormwater Conference*



**Hye Yeong Kwon**  
*Executive Director, Center for  
Watershed Protection*



**Dave Hirschman**  
*Technical Content Lead for the  
2016 National Watershed and  
Stormwater Conference*



# Table of Contents

About the Center .....	5
How the Conference Works .....	6
CEUs .....	6
Online Conference Information .....	7
Eastern Time Agenda.....	8
Central Time Agenda.....	10
Pacific Time Agenda.....	12
In Person Conference Information.....	14
East Hartford, CT Information .....	15
East Hartford, CT Agenda.....	16
Baltimore, MD Information .....	19
Baltimore, MD Agenda .....	20
Atlanta, GA Information.....	23
Atlanta, GA Agenda .....	24
Omaha, NE Information .....	27
Omaha, NE Agenda.....	28
Coeur D'Alene, ID Information.....	31
Coeur D'Alene, ID Agenda.....	32
Sacramento, CA Information .....	35
Sacramento CA Agenda .....	37



## About The Center

### Mission

The Center for Watershed Protection works to protect, restore, and enhance our streams, rivers, lakes, wetlands, and bays. We create viable solutions and partnerships for responsible land and water management so that every community has clean water and healthy natural resources to sustain diverse life.

#### Vision

The Center for Watershed Protection's vision is a nation that has significantly improved the ecological and hydrologic condition of its degraded water bodies and has stemmed further degradation of clean water and healthy watersheds. We believe clean water and healthy natural resources are essential to life on earth.

### We envision:

- A network of watershed practitioners building a national movement towards a watershed approach
- Communities investing in infrastructure changes that are reflective of the environmental, economic, and social benefits of watershed protection, restoration, and enhancement
- Land development occurring with minimal impacts to water resources
- Individuals taking tangible steps to improve their local watersheds

So that every community has clean drinking water, and fishable, swimmable waters that support diverse life.

Our vision is built upon our unique ability to advance, synthesize and widely disseminate watershed science by translating this knowledge into practical tools and techniques. Through our collaborative spirit and ability to integrate multiple disciplines, jurisdictions, and issues into a comprehensive watershed approach we endeavor to lead the nation in the development and implementation of the most effective stormwater and watershed management practices.

## Center for Watershed Protection Association

The Center for Watershed Protection Association (CWPA) is a national network of professionals dedicated to advancing the state-of-the-art in watershed and stormwater management. CWPA is a forum for sharing ideas, resources, expertise, and information pertinent to watershed and stormwater professionals. CWPA provides training, education and professional development and fosters collaboration among its members.

When you need targeted, easy to understand resources and access to other professionals experienced in this area, the CWPA should be your first choice.



---

## How the Conference works

### Two Ways to Attend the Conference...

#### OPTION A: ONLINE

As an on-line registrant, you will be able to:

- Watch the nationally broadcast portions of the website from your computer
- Ask questions online through a chat

Please go to the Online Conference Information on page 7 and find your appropriate time zone agenda.

#### Connecting online:

The webcast will be broadcast via Adobe Connect. You will receive login information to the conference one week before the conference. The email will come from [cps@cwpp.org](mailto:cps@cwpp.org) with the subject line “2016 Center for Watershed Protection Online Conference Link “- so keep an eye out for it!

#### OPTION B: IN PERSON AT ONE OF OUR 6 HUB LOCATIONS

If you register at one of the six hub locations, you will be able to:

- Watch the nationally broadcast portions of the website with your peers and other registrants
- Be part of local discussions or presentations of how these issues relate locally or regionally
- Network live with local speakers and peers and sponsors
- Ask questions live
- Receive complimentary lunch (the most important part of the day).

Please go to the In Person Conference Information on page 14 and find the agenda for your preferred hub location.

More than 500 registrants are expected to “attend” the conference either in person or on-line. All registrants will listen to the nationally broadcast portions of the webcast. In-person registrants will have the opportunity to listen to local presentations and participate in discussions about how the topics affect their community, locality, and/ or region.

## Professional Development Hours/CEUs

The Center for Watershed Protection will offer .8 continuing education units (CEUs) for this conference if attending at a hub location (8 contact hours, each earning 0.10 of a CEU). Attendance at all conference technical sessions is required to obtain the CEUs. A sign in/sign out sheet will be provided at each hub location to track attendance. The Center will provide a certificate to any attendee that requests one detailing the number of Professional Development Hours (PDHs) earned at the conference.

For those attending online, the software can only track the actual person who signs on, so a sign in/sign out sheet will be required if more than one person is attending to get a certificate. That sign in/sign out sheet will need to be provided to the Center at [webcast@cwpp.org](mailto:webcast@cwpp.org) in order to meet document retention policies. The Center will provide a certificate to any attendee that requests one detailing the number of Professional Development Hours (PDHs) earned at the conference.

While our training programs are developed with the International Association for Continuing Education and Training criteria in mind, the varying nature of certification requirements for each state means that we cannot guarantee that CEUs will be awarded. Upon request, the Center can provide some documentation to help participants obtain credit for attending the conference, but participants are responsible for determining whether CEUs will be awarded based on the policies of their local certifying boards. Information on obtaining a CEU certificate for this conference will be provided on the first day of the conference at registration.

# Online Conference Information



---

# Eastern Time Online Agenda

**11:00 AM – 12:00 PM**

## **Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...**

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Capiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager – Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

**1:00 PM – 1:30 PM**

## **Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

**1:30 PM – 2:40 PM**

## **IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side**

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager – City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist – Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)

**2:40 PM – 3:00 PM**

## **Breaking down barriers – Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO's have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist – Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist – City of Durham, NC (Municipal Programs Case Study)





**4:00 PM – 4:30 PM**

### **Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist – Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager – Alan Plummer Associates, Inc.

**4:30 PM – 5:10 PM**

### **Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist – Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist – Herrera Environmental Consultants

**5:30 PM – 6:00PM**

### **Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker

Ted Brown, PE, Water Resources Engineer- Biohabitats

**6:00 PM – 6:30 P**

### **Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer – University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability & Lean Consultant – Haley & Aldrich, Inc.



# Central Time Online Agenda

**10:00 AM – 11:00 AM**

## **Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...**

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Capiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager – Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

**12:00 PM – 12:30 PM**

## **Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

**12:30 PM – 1:40 PM**

## **IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side**

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager – City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist – Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)

**1:40 PM – 2:00 PM**

## **Breaking down barriers – Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO's have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist – Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist – City of Durham, NC (Municipal Programs Case Study)



**3:00 PM – 3:30 PM**

### **Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist – Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager – Alan Plummer Associates, Inc.

**3:30 PM – 4:10 PM**

### **Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist – Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist – Herrera Environmental Consultants

**4:30 PM – 5:00PM**

### **Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats

**5:00 PM – 5:30 PM**

### **Master Planning and Avoiding a Thousand Cut**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer – University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability & Lean Consultant – Haley & Aldrich, Inc.

**5:30 PM – 6:15 PM**

### **Keeping it Clean: Top tips for facility SWPPPs**

Speaker:

Laurel Wardrip, Industrial and Construction Storm Water Unit Chief – California State Water Resources Control Board



# Pacific Time Online Agenda

**8:00 AM – 9:00 AM**

## **Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...**

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Capiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager – Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

**10:00 AM – 10:30 AM**

## **Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

**10:30 AM – 11:40 AM**

## **IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side**

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager – City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist – Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)

**11:40 AM – 12:00 PM**

## **Breaking down barriers – Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO's have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist – Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist – City of Durham, NC (Municipal Programs Case Study)



**1:00 PM – 1:30 PM**

### **Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist – Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager – Alan Plummer Associates, Inc.

**1:30 PM – 2:10 PM**

### **Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist – Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist – Herrera Environmental Consultants

**2:30 PM – 3:00PM**

### **Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats

**3:00 PM – 3:30 PM**

### **Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer – University of North Carolina at Chapel Hill

**3:30 PM – 4:15 PM**

### **Keeping it Clean: Top tips for facility SWPPPs**

Speaker:

Laurel Warddrip, Industrial and Construction Storm Water Unit Chief - California State Water Resources Control Board

# In Person Conference Information

Special Thanks to our Hub Partners:



# Connecticut Hub Information

## About Hartford/E. Hartford, CT

Hartford is the capital of Connecticut and home to 125,000 residents. The city has opportunities for fine dining, numerous cultural attractions and entertainment venues and some of the largest corporations in the nation. East Hartford is located on the east bank of the Connecticut River, directly across from Hartford, Connecticut. Goodwin College is ideally located on Route 2 with easy access to both I-91 and I-84.

Special Features of this Conference

The major sponsor for the Center for Watershed Protection's 2016 National Watershed/ Stormwater Conference in Connecticut is the NEMO program at the University of Connecticut's Center for Land Use Education and Research (CLEAR). Because the Connecticut Department of Energy and Environmental Protection (DEEP) issued a new MS4 General Permit in January 2016, attendees should expect special sessions focused on the new requirements of that permit and resources to help them meet those requirements. However, there will also be some discussion of what nearby states are doing to address stormwater issues.

## Address

### Goodwin College

1 Riverside Dr,  
East Hartford, CT 06118.  
Phone: 404-407-6017  
Website: <http://www.goodwin.edu/>  
Point of Contact

David Dickson  
Extension Educator & National Program Coordinator  
Center for Land Use Education And Research (CLEAR)  
University of Connecticut  
(860) 345-5228  
[David.dickson@uconn.edu](mailto:David.dickson@uconn.edu)

## Getting There

### By Car

The Goodwin College River campus is located at:  
One Riverside Drive, East Hartford, CT 06118

GPS should be set to: 211 Riverside Drive

Free visitor parking is available.

### By Air

The closest airport to the Goodwin College location is the Bradley International Airport (BDL). The airport is approximately 18 miles from the college.

### By Train

The closest station is at the Amtrak Station Building  
(with waiting room)  
One Union Place, Hartford, CT 06103

## Hotels

The following hotels are within a short distance from the conference. There are many other hotels within the region and we encourage participants to search for best rates and their preferred hotels.

Hilton Garden Inn Hartford South/Glastonbury  
85 Glastonbury Blvd, Glastonbury, CT 06033  
(860) 659-1025  
[hiltongardeninn3.hilton.com](http://hiltongardeninn3.hilton.com)

Homewood Suites by Hilton Hartford South-Glastonbury  
65 Glastonbury Blvd, Glastonbury, CT 06033  
[homewoodsuites3.hilton.com](http://homewoodsuites3.hilton.com)  
(860) 652-8111

Special Networking Sessions Pre and Post Conference  
TBD



---

## Hartford/East Hartford, CT Agenda (Draft)

8:00 AM – 9:00AM

### Registration

9:00 AM – 9:15 AM

### Introduction to the 2016 National Webcast Conference and the Local Hub

9:15 AM – 9:45 AM

### CT's New MS4 Permit

Overview of the new requirements and timelines of CT's MS4 General Permit

9:45 AM – 10:00 AM

### MS4 Q & A/Discussion

10:00 AM – 10:20 AM

### Why LID?

A brief overview of stormwater, impervious cover, and the use of Low Impact Development

10:20 AM – 10:40 AM

### Resources for MS4 Communities

10:40 AM – 10:50 AM

### Q & A/Discussion

10:50 AM – 11:00 AM

### Break

11:00 AM – 12:00 PM

### Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Cappiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager - Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

12:00 PM – 1:00 PM

### Lunch & Networking





**1:00 PM – 1:30 PM**

**Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

**1:30 PM – 2:40 PM**

**IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side**

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewer shed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager - City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist - Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)

**2:40 PM – 3:00 PM**

**Breaking down barriers - Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO’s have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist - Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist - City of Durham, NC (Municipal Programs Case Study)

**3:00 PM – 4:00 PM**

**Local Hub Discussion/ Break – Topic TBD**

**4:00 PM – 4:30 PM**

**Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist - Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager - Alan Plummer Associates, Inc.

**4:30 PM – 5:10 PM**

**Let’s Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist - Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist - Herrera Environmental Consultants



**5:10 – 5:30**

**Local Hub Discussion/ Final Remarks**

For the diehards

**5:30 PM – 6:00PM**

**Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats

**6:00 PM – 6:30 PM**

**Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer - University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability



# Baltimore, MD Hub Information

## About Baltimore, MD

The Loyola University Graduate Center – Timonium Campus is located just north of Baltimore City and is ideally situated for enjoying many of the cultural and recreational offerings throughout the Greater Baltimore area, such as maritime and marine history, Baltimore sports teams, museums and galleries, theaters, and much more. Attendees may consider an extended visit to see all the area has to offer.

### Special Features of this Conference

This unique conference unites in-person discussion with online participation that concurrently addresses local and national watershed issues and tools. All attendees will have the opportunity to watch the nationally broadcast portions of the webcast focused on the major conference topics of pollution prevention, Illicit Discharge Detection and Elimination (IDDE), post-construction stormwater management, and special MS4s. In addition to the national webcast, the Baltimore Hub will feature special sessions focused on the Chesapeake Bay TMDL, including an overview of the status of the TMDL and Chesapeake Bay Watershed Model, update on BMP crediting, perspectives from MDE (invited), and discussion of localities' experience with development of implementation plans.

A total of 0.8 continuing education units (CEUs) are available for those who attend all technical sessions and there will be plenty of time to network and discuss local issues. Attending and hosting the Baltimore Hub will be Lisa Fraley-McNeal, Research Specialist at the Center for Watershed Protection. An extended happy hour will follow the conference and will be hosted by Bill Stack, Deputy Director of Programs at the Center for Watershed Protection.

## Address

Loyola University Graduate Center – Timonium Campus  
2034 Greenspring Drive  
Timonium, MD 21093  
<http://www.loyola.edu/department/timonium>

## Getting There

### By Air

The Timonium Campus is approximately a 40 minute drive from the Baltimore/Washington International Thurgood Marshall Airport.

### By Car

From Philadelphia & New York: Follow I-95 south to 695 (Baltimore beltway) West toward Towson. Take Exit 24 I-83 North to the Timonium 16A Exit and make a right at the first traffic light, Greenspring Drive. The Loyola Graduate Center – Timonium Campus is the second building on the right.

From Washington D.C. & Western Points: Follow I-95 North or 70 East to 695 (Baltimore beltway) West toward Towson. Take Exit 24 I-83 North to the Timonium 16A Exit and make a right at the first traffic light, Greenspring Drive. The Loyola Graduate Center – Timonium Campus is the second building on the right.

From Pennsylvania I-83: Take the Timonium Exit 16 and make a left onto Timonium Road at the traffic light. At the first traffic light, turn right onto Greenspring Drive. The Loyola Graduate Center – Timonium Campus is the second building on the right.

From Baltimore City: Follow I-83 North to 695 (Baltimore beltway) East toward Towson. Remain on I-83 North as it first joins and then splits from 695. The first exit beyond the beltway (695) will be the Timonium Exit 16A. Take Exit 16A and make a right at the first traffic light, Greenspring Drive. The Loyola Graduate Center – Timonium Campus is the second building on the right.

## Parking

There is free parking on the Timonium Campus.



## Hotels

Hotels located within walking distance to the Timonium Campus include:

Radisson Hotel North Baltimore

<http://www.radisson.com/timonium-hotel-md-21093/usatmmd>

Red Roof Inn

<https://www.redroof.com/property/Lutherville-Timonium/MD/21093/Hotels-close-to-Maryland-State-Fairgrounds-Goucher-College-I-83/RR1209/>

## Baltimore, MD Agenda (Draft)

8:00 AM – 9:00AM

### Registration

9:00 AM – 9:30 AM

### Introduction to the 2016 National Webcast Conference and the Local Hub – Icebreaker

9:30 AM – 10:45 AM

### The Next Generation Chesapeake Bay Watershed Model: How It Could Affect Bay TMDL Implementation

Speaker:

Rich Batiuk, Associate Director for Science, Analysis and Implementation, U.S. Environmental Protection Agency, Chesapeake Bay Program

### What You Should Know About TMDL Implementation

Speaker:

Robert Summers, Environmental Science Practice Leader, KCI Technologies, Inc.

### Crediting Stormwater Practices in the Chesapeake Bay Watershed

Speaker:

Tom Schueler, Executive Director, Chesapeake Stormwater Network

Cecilia Lane, Stormwater Coordinator, Chesapeake Stormwater Network

10:45 AM – 11:00 AM

### Break & Networking

11:00 AM – 12:00 PM

### Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.



**Speakers:**

Karen Cappiella, Program Director, Research – Center for Watershed Protection  
 Neely Law, Senior Research Analyst – Center for Watershed Protection  
 Kara Pennino, Assistant Program Manager - Trash Free Potomac Watershed Initiative  
 Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

**12:00 PM – 1:00 PM**

**Lunch & Networking**

**1:00 PM – 1:30 PM**

**Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

**Speakers:**

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

Your choice of two concurrent sessions			
<b>1:30 PM – 2:40 PM</b>	<p><b>IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side</b>            Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.</p> <p>Speakers:            John Cox, Water Quality Manager - City of Durham, NC (Municipal Programs Case Study)            Andres Torrizo, Principal, Hydrologist - Watershed Consulting Associates (Consultant Case Study)            Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)</p>	<b>1:30 PM – 3:30 PM</b>	<p><b>MDE’s Perspective on Bay TMDL Implementation</b>            Invited Speaker, Ray Bahr</p> <p>Speaker:            Rosanna LaPlante, Section Chief, Baltimore City Department of Public Works</p>
<b>2:40 PM – 3:00 PM</b>	<p><b>Breaking down barriers - Key Programmatic Issues</b>            What does it take to integrate the waste water/stormwater programs. What role do NGO’s have? What are other key issues: enforcement, accounting, funding.</p> <p>Panel discussion:            All previous IDDE speakers            Dana Allen, Water Quality Specialist - Watershed Consulting Associates (Consultant Case Study)            Jonathan Baker, Water Quality Specialist - City of Durham, NC (Municipal Programs Case Study)</p>		<p><b>Developing Bay TMDL Implementation Plans –</b>            Major Issues Localities are Having</p> <p>Speakers: Erik Michelsen (Anne Arundel County), Roseanna (Baltimore City), Bill Wolinski (Talbot County), Bill Frost (KCI)</p>
<b>3:00 PM – 4:00 PM</b>	<b>Break &amp; Networking</b>	<b>3:30 PM – 4:00 PM</b>	<b>Break &amp; Networking</b>

4:00 PM – 4:30 PM

**Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist - Center for Watershed Protection  
Tom Hegemeier, PE, Senior Project Manager - Alan Plummer Associates, Inc.

4:30 PM – 5:10 PM

**Let’s Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist - Washington State University – Extension (ANR Prog. Unit)  
Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist - Herrera Environmental Consultants

5:10 – 5:30

**Local Hub Discussion/ Final Remarks**

For the diehards choose from either

<p>5:30 PM – 6:00PM</p> <p><b>Overview of Special MS4s- Prisons, Campuses, Etc.</b></p> <p>How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?</p> <p>Speaker: Ted Brown, PE, Water Resources Engineer- Biohabitats</p>	<p><b>HAPPY HOUR</b> hosted by Bill Stack (CWP) Location: TBD</p>
<p>6:00 PM – 6:30 PM</p> <p><b>Master Planning and Avoiding a Thousand Cuts</b></p> <p>How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?</p> <p>Speakers: Sally Hoyt, Stormwater Engineer - University of North Carolina at Chapel Hill Ben Chandler, Vice President &amp; Senior Sustainability &amp; Lean Consultant - Haley &amp; Aldrich, Inc.</p>	<p><b>HAPPY HOUR</b> hosted by Bill Stack (CWP) Location: TBD</p>

6:30 PM – 7:30 PM

**HAPPY HOUR hosted by Bill Stack (CWP)**



# Choosing Atlanta, GA as Your Conference Location

## About Atlanta, GA

The capital city of the Southeast, Atlanta, Georgia sits along the Chattahoochee River which is part of the Apalachicola River Basin, and offers a wonderful mixture of historical, cultural, and natural wonders. Attendees may consider an extended visit to see the sights such as the region's historic monuments, midtown arts, and nearby lakes and parks. Stay an extra day to visit the Georgia Aquarium across from Centennial Olympic Park in downtown.

### Special Features of this Conference

The major sponsor for the Center for Watershed Protection's 2016 National Watershed/ Stormwater Conference in Atlanta is the Georgia Tech Research Institute. Attendees should expect special sessions focused on the issues of Georgia and the southeast with plenty of time to network and discuss local issues. Attending and hosting the Atlanta Hub will be Bill Hodgins, P.E., Senior Engineer at the Center for Watershed Protection.

## Address

Georgia Tech Research Institute (at the Conference Center)  
250 14th Street, NW  
Atlanta, Georgia 30318  
Phone: 404-407-6017  
meetings@gtri.gatech.edu  
Website: <http://gtri.gatech.edu/conference-center>

## Getting There

### By Air

The closest airport to the Georgia Tech Research Institute is the Hartsfield-Jackson Atlanta International Airport (ATL). The airport is approximately 13 miles from the Georgia Tech Research Institute.

Super Shuttle Atlanta is another transportation option to and from the Atlanta Hartsfield International Airport.

ATL Reservations: (800) BLUE VAN  
(800) 258-3826 FREE  
TDD Reservations: (877) 215-9262 FREE  
Customer Care: (888) 888-6025 FREE  
Online booking: [www.supershuttle.com/locations/atairportshuttleatlanta.aspx](http://www.supershuttle.com/locations/atairportshuttleatlanta.aspx)

On site ticket purchase is available from uniformed Customer Service Representatives at the SuperShuttle ticket counter located in the Domestic Terminal's south side baggage claim area. The ticket counter is staffed from 6:00am daily.

### By Train

Hartsfield-Jackson Atlanta has a convenient MARTA station on site. To get to Georgia Tech Research Institute by MARTA take the red (north-south) line to the Arts Center Station. From the Station it's about a 15 minute walk to GTRI at 250 14th St. NW.

## Hotels

The following hotels are within walking distance from the conference. There are many other hotels within the region and we encourage participants to search for best rates and their preferred hotels. Atlanta Midtown hotels are closest to the Georgia Tech Research Institute.

Hilton Garden Inn Atlanta Midtown  
97 10th St NW  
Atlanta, GA 30309  
Phone: 404-524-4006

Homewood Suites  
97 10th St NW  
Atlanta, GA 30309  
Phone: 404-524-4076

Residence Inn Atlanta Midtown/Georgia Tech  
1041 West Peachtree Street NW  
Atlanta, GA 30309  
Phone: 404-872-8885



Four Seasons Hotel  
75 14th St NE  
Atlanta, GA 30309  
Phone: 404-881-9898

Regency Suites Hotel  
975 West Peachtree St NW  
Atlanta, GA 30309  
404-876-5003  
Phone: 404-876-5003

Courtyard Atlanta Midtown  
1132 Techwood Dr NW  
Atlanta, GA 30318  
Phone: 404-524-4006

Atlanta Marriott Suites Midtown  
35 14th Street NE  
Atlanta, GA 30309  
Phone: 404-876-8888

Regency Suites Hotel  
975 West Peachtree St NW  
Atlanta, GA 30309  
Phone: 800-642-3629

## Parking

Parking is available on site at the Conference Center in the Georgia Public Radio parking garage top floors. Special Networking Sessions Pre and Post Conference

For interested speakers and attendees, after the event, Bill Hodgins invites you to attend a post-conference happy hour. Spaces will be limited, but those interested should contact Bill directly by March 30 at [wh@cwpa.org](mailto:wh@cwpa.org). Participants are expected to pay for their own beer. Also, consider joining a group of conference speakers and attendees for lunch on April 11 (day before) or April 13 (day after). Again, contact Bill if you are available for any of these special events. Participants are expected to pay for their own lunches.

## Atlanta, GA Agenda (Draft)

8:00 AM – 9:00 AM

### Registration

9:00 AM – 9:30 AM

### Introduction to the 2016 National Webcast Conference and the Local Hub – Icebreaker

9:30 AM – 11:00 AM

### Local Hub Discussion - Georgia Stormwater Management Manual and MS4 permit

Speaker:

Glen Behrend – Georgia DNR

### Green roofs for the Southeast

Speakers:

Linda S. Velazquez, ASLA, GRP, LEED AP - Greenroofs.com Publisher & Design Consultant

Robby Jourdan, LiveRoof Project Manager - James Greenroofs

### Georgia Tech's Stormwater Master Plan

Speaker:

Jason Gregory, RLA, LEED AP, Landscape Architect, Georgia Institute of Technology





**11:00 AM – 12:00 PM**

**Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...**

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Capiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager - Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

**12:00 PM – 1:00 PM**

**Lunch & Networking**

Hurricane Joaquin’s impact on Columbia, SC

Dr. Hermann Fritz, Georgia Tech

**1:00 PM – 1:30 PM**

**Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

**1:30 PM – 2:40 PM**

**IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side**

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager - City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist - Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)

**2:40 PM – 3:00 PM**

**Breaking down barriers - Key Programmatic Issues**


What does it take to integrate the waste water/stormwater programs. What role do NGO’s have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist - Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist - City of Durham, NC (Municipal Programs Case Study)



---

**3:00 PM – 4:00 PM**

**Local Hub Discussion/ Break – Topic TBD**

**4:00 PM – 4:30 PM**

**Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist - Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager - Alan Plummer Associates, Inc.

**4:30 PM – 5:10 PM**

**Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist - Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist - Herrera Environmental Consultants

**5:10 – 5:30**

**Local Hub Discussion/ Final Remarks**

**Stormwater management and urban design: case studies in the Atlanta beltline**

Speakers:

Dr. Tom Debo P.E., PhD, Professor Emeritus - Georgia Institute of Technology

Richard Dagenhart, Professor Emeritus - College of Architecture, Georgia Institute of Technology

For the diehards

**5:30 PM – 6:00PM**

**Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats

**6:00 PM – 6:30 PM**

**Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer - University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability & Lean Consultant - Haley & Aldrich, Inc



# Omaha, NE Hub Information

## About Omaha, NE

Omaha is the largest city in the state of Nebraska, and is the county seat of Douglas County. Omaha has numerous tourist attractions and offers a wonderful mixture of historical, cultural, and natural wonders. Omaha plays host annually to the NCAA Men's College World Series at the new TD Ameritrade Park and is also home to the Old Market, Omaha's historic entertainment district, where boutiques, antique stores and restaurants line cobblestone streets.

Special Features of this Conference

Douglas County Environmental Services and the City of Omaha Stormwater Program are teaming up to sponsor the Center for Watershed Protection's 2016 National Watershed/ Stormwater Conference in Omaha. Attendees in Omaha will enjoy 3 special sessions focused on stormwater issues of concern for Nebraska and have ample time to network and discuss local issues.

Rebate incentive

As an added incentive the first 75 people that register to attend the Omaha hub location are eligible for a registration rebate of \$229, so your final cost to attend is just \$100! Just go to the CWP website and register at the General Admission rate to attend at the Omaha hub location. To qualify for the rebate you'll just need to bring your proof of registration to the conference on April 12th, complete a short form with your contact information (i.e. where you want us to send your rebate check), sign in, and enjoy the conference. Breakfast, lunch, and break refreshments are all included.

Hub Location Address

The Swanson Conference Center on Metropolitan Community College's Fort Omaha Campus will serve as our venue. It is a first rate conference facility and is co-located with Metro's Institute of Culinary Arts, with great food to complement your conference experience. The campus entrance is located at 32nd & Sorensen Pkwy in Omaha.

## Point of Contact

Karin Caldwell  
Administrative Assistant  
Douglas County Environmental Services  
3015 Menke Circle  
Omaha, NE 68134  
(402) 444-6181  
karin.caldwell@douglascounty-ne.gov

## Getting There

### By Car

The Fort Omaha Campus entrance is located at N. 32nd Street & Sorensen Pkwy. This is the closest entrance to the Swanson Conference Center. Parking is located adjacent to the building.

### By Air

Omaha's airport, Eppley Airfield, has more than 200 arrivals and departures daily and is located a quick drive from Omaha's downtown area.

### By Train

The Amtrak station can be found at 1003 South 9th Street, Omaha, NE 68108

### Hotels

For those attendees needing overnight accommodations Douglas County Environmental Services has coordinated a special \$89 rate at the Sonesta ES Suites Hotel, 6990 Dodge Street, that includes parking, WiFi, full breakfast buffet, and a Manager's Social, Monday-Wednesday. Attendees should make their own hotel arrangements.

<http://www.sonesta.com/omaha>  
T: 402-553-8898



---

## Omaha, NE Agenda (Draft)

7:30 AM – 8:30 AM

### Registration

8:30 AM – 9:00 AM

### Introduction to the 2016 National Webcast Conference and the Local Hub

9:00 AM – 10:00 AM

### Omaha presentation - Watershed Master Planning and potential impact on future 319 grant funding.

Speaker:

Sara Mechtenberg, FYRA Engineering

10:00 AM – 11:00 AM

### Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Capiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager - Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

11:00 AM – 12:00 PM

LUNCH, Local Hub Discussion & Networking (free time for participants - no presentation scheduled; Douglas County and City of Omaha Stormwater information on display)

12:00 PM – 12:30 PM

### Overview of IDDE: A recap of IDDE investigations by CWP across the country

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

12:30 PM – 1:40 PM

### IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager - City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist - Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)



**1:40 PM – 2:00 PM**

### **Breaking down barriers - Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO's have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist - Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist - City of Durham, NC (Municipal Programs Case Study)

**2:00 PM – 3:00 PM**

### **Local Omaha Presentations**

First topic: Nebraska H2O - Post-Construction Stormwater Standards for Phase II MS4s.

This presentation will cover the recommended standards for stormwater treatment volume and rate for Phase II MS4s in Nebraska. A development scenario will highlight the need for alternative ways to plan and manage permanent stormwater treatment in some of these communities.

Second topic: Municipal Maintenance Operations and Risk-Based Evaluation Methods

This presentation will highlight the risk-based approach to evaluate municipal maintenance operations for stormwater management and challenge good housekeeping/pollution prevention practitioners to clarify behaviors that create good stormwater protection habits.

Speaker:

Jesse Poore, Felsburg Holt & Ullevig

**3:00 PM – 3:30 PM**

### **Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist - Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager - Alan Plummer Associates, Inc.

**3:30 PM – 4:10 PM**

### **Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist - Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist - Herrera Environmental Consultants



**4:10-4:30**

**Local hub break time. No specific presentation scheduled.**

**4:30 PM – 5:00PM**

**Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats

**5:00 PM – 5:30 PM**

**Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer - University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability & Lean Consultant - Haley & Aldrich, Inc.

**5:30 PM – 6:15 PM**

**Keeping it Clean: Top tips for facility SWPPPs**

Speaker:

Laurel Warddrip, Industrial and Construction Storm Water Unit Chief - California State Water Resources Control Board



## Idaho Hub Information

### About The University of Idaho Research Park

The University of Idaho Research Park campus focus is on research and technology-based companies wanting to create or continue working relationships with the University of Idaho and other Northwest colleges and universities. The park is also a growing satellite campus for all University of Idaho colleges and institutes, effecting interaction among academia, research and economic development with the park's resident businesses.

The Research Park is located in Post Falls just outside Coeur d'Alene. Post Falls is located on I-90 only 8 miles west of Coeur d'Alene, Idaho and 20 miles east of Spokane, Washington. The area is near the North Idaho Centennial Trail, has waterfront activities along the Spokane River and Lake Coeur d'Alene, numerous eating and drinking establishments, premium lodging, and golf and shopping from Cabela's to specialty shops. The area is also an outdoor enthusiast's paradise with hunting, fishing, wildlife watching and many other activities.

### Special Features of this Conference

The major sponsor for the Center for Watershed Protection's 2016 National Watershed/ Stormwater Conference in Idaho is our friends at the Panhandle Stormwater and Erosion Education Program (SEEP). Attendees should expect special sessions focused on the issues of concern for Idaho and the northwest and plenty of time to network and discuss local issues.

### Address

University of Idaho Research Park  
721 S. Lochsa Street  
Post Falls, ID 83864  
Point of Contact

Eric Berntsen  
eberntsen@kalispeltribe.com  
(509)671-6466

### Getting There

#### By Car

<https://www.google.com/maps/place/721+S+Lochsa+St,+Post+Falls,+ID+83854/@47.6975371,-117.0112142,14.77z/data=!4m2!3m1!1s0x5361dcde22d3b015:0xd99b8d5880eef053>

#### By Air

The closest airport is Spokane International Airport. The Research Park is about 30 minutes from the airport.

#### By Train

The closest train station is in Spokane. The Research Park is about 30 minutes from the Amtrak station.

### Hotels

The following hotels are within a short distance from the conference. There are many other hotels within the region and we encourage participants to search for best rates and their preferred hotels.

SilverStone Inn and Suites Post Falls  
3647 W 5th Ave, Post Falls, ID 83854  
(208) 773-4541

Quality Inn  
3175 E Seltice Way, Post Falls, ID 83854  
(208) 773-8900  
<https://www.choicehotels.com/idaho/post-falls/quality-inn-hotels/id041?source=gglocalai>

Red Lion Hotel Post Falls  
414 E 1st Ave, Post Falls, ID 83854  
(208) 773-1611  
<http://www.redlion.com/templins>

Sleep Inn  
157 S Pleasant View Rd, Post Falls, ID 83854  
(208) 777-9394  
<https://www.choicehotels.com/idaho/post-falls/sleep-inn-hotels/id611?source=gglocalai>



## Idaho Agenda (Draft)

7:00 AM – 8:00 AM

### Registration

8:00 AM – 9:00 AM

### Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Capiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager - Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

9:00 AM – 9:15 AM

### Introduction to the 2016 National Webcast Conference and the Local Hub – Icebreaker

9:15 AM – 10:00 AM

### Stormwater Research in the Inland Northwest: Emerging Issues

Speakers:

Aimee Navickus-Brasch, PE – Gonzaga University, Spokane, Washington

Topics will include BMP effectiveness monitoring (bioinfiltration), bioretention (raingarden) soil mix development, permeable asphalt water quality evaluation, and using fungi for breaking down PCBs (in vacuum truck waste).

10:00 AM – 10:30 AM

### Overview of IDDE: A recap of IDDE investigations by CWP across the country

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection

10:30 AM – 11:40 AM

### IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager - City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist - Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)





**11:40 AM – 12:00 PM**

### **Breaking down barriers - Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO's have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist - Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist - City of Durham, NC (Municipal Programs Case Study)

**12:00 PM – 1:00 PM**

### **LUNCH, Local Hub Discussion & Networking**

**1:00 PM – 1:30 PM**

### **Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist - Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager - Alan Plummer Associates, Inc.

**1:30 PM – 2:10 PM**

### **Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist - Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist - Herrera Environmental Consultants

**2:10 PM – 2:30 PM**

### **Local Hub Discussion/Break**


**2:30 PM – 3:00PM**

### **Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats



---

**3:00 PM – 3:30 PM**

**Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer - University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability & Lean Consultant - Haley & Aldrich, Inc.

**3:30 PM – 4:15 PM**

**Keeping it Clean: Top tips for facility SWPPPs**

Speaker:

Laurel Warddrip, Industrial and Construction Storm Water Unit Chief - California State Water Resources Control Board

**4:15 PM – 4:50 PM**

**Local Hub Discussion: The Importance of Getting the Word Out – Local Stormwater and Watershed Education Programs.**

Keys to success and lessons learned

**4:50 PM – 5:00 PM**

**Concluding Remarks**



# Sacramento, CA Hub Information

## About Sacramento

The capital of California, Sacramento is a beautiful location in the Central Valley at the confluence of the Sacramento and American Rivers. With a wonderful mixture of historical, cultural, and natural wonders nearby, attendees may consider an extended visit to see the sights such as the region's scenic wine country, the gold tour, and the amazing farm-to-fork dining.

### Special Features of this Conference

The major sponsors for the Center for Watershed Protection's 2016 National Watershed/ Stormwater Conference in Sacramento are the California Water Board and the California Area Stormwater Quality Association (CASQA). Attendees should expect special sessions focused on the issues of California and plenty of time to network and discuss local issues. Attending and hosting the Sacramento Hub will be Hye Yeong Kwon, Executive Director of the Center for Watershed Protection.

Two additional networking opportunities will be provided the day before and after the event at local venues for lunch. Spaces will be limited, but those interested in joining a group of conference speakers and attendees for lunch on April 11 (day before) and April 13 (day after) should contact Hye Yeong Kwon by March 30 at [hyk@cwpa.org](mailto:hyk@cwpa.org). Participants are expected to pay for their own lunches.

## Address

California State Water Resources Control Board  
(at the California Environmental Protection Agency  
Building)  
1001 I Street  
Sacramento, CA 95814  
Website: <http://www.swrcb.ca.gov/>

**IMPORTANT!!!** The California State Water Resources Control Board is within the California Environmental Protection Agency in a secure building. Visitors must check-in at the guard station as they enter the building.

They must sign in and receive a temporary badge and must sign out as they leave the building. We ask participants to allow plenty of time for this process.

## Getting There

### By Air

The closest airport to the California Water Board is Sacramento International Airport (SMF).

YoloBus has a bus route leaving the airport every hour from Terminal A and Terminal B at approximately 10 minutes after the hour from 7 a.m. to 10 p.m. You stand at the Public Transportation Bus Stop. The route takes approximately 18 minutes to get from the airport to 9th and K Street. This is 2 blocks from. The return trip from 9th and K Street runs approximately 5 minutes after the hour and takes approximately 20 minutes to arrive at the airport. Phone: (800) 371-2877

SuperShuttle Sacramento is another transportation option to and or from the Sacramento Airport. Please provide them with a 24-hour notice to arrange for pick-up service from the CalEPABuilding. Phone: (800) 258-3826


Other airports include the San Francisco Airport (SFO) and Oakland Airport (OAK) which are further away, but still accessible should your plans include visits to other parts of California.

### By Bike

There are 25 bike parking spaces for visitors located at two sites in the courtyard of the CalEPA building.

### By Train

The Sacramento Amtrak train station is at 401 I Street, six blocks from the CalEPA Headquarters building. Amtrak's Capitol Corridor trains operate between the Bay Area and Sacramento with many trains daily. Amtrak California's San Joaquin trains and motor coaches connect the Central Valley from as far south as Bakersfield (and further with their motor coach system) to Sacramento. Other Amtrak trains



serving Sacramento include the Coast Starlight and the California Zephyr.

Regional Transit's light rail serves the train station every 15 minutes seven days a week. RT bus routes also link the Station to downtown government offices and the rest of Sacramento County.

### **By Car**

"Get Directions (Google maps)"

## **Hotels**

The following hotels are within walking distance from the conference. There are many other hotels within the region and we encourage participants to search for best rates and their preferred hotels.

### **Hyatt Regency Sacramento**

Address: 1209 L St, Sacramento, CA 95814

Phone: (916) 443-1234

### **The Citizen Hotel, Autograph Collection**

Address: 926 J St, Sacramento, CA 95814

Phone: (916) 447-2700

### **Best Western Plus Sutter House**

Address: 1100 H St, Sacramento, CA 95814

Phone: (916) 441-1314

## **Parking**

Metered Parking (1, 2, and 10-hour meters) available near the CalEPA building. Meter parking uses quarters (some meters may use special "debit cards").

Parking lots are also available in several nearby locations. The closest lot is across from the building on 10th & I Street.

There is a \$7.00 (credit card only) daily lot located on the corner of 12th and F street. Come early as it does fill up quick!

There is also the Large Memorial Garage located at 14th and H Street with \$6.00 all day parking (in by 9:30 a.m. and out after 4:00 p.m.).

Special Networking Sessions Pre and Post Conference

For those speakers and attendees interested in a more informal setting to meet each other and the local speakers, the Center is organizing lunch on April 11 (day before) and April 13 (day after). Interested participants should contact Hye Yeong Kwon by March 30 at [hyk@cwpa.org](mailto:hyk@cwpa.org). Participants are expected to pay for their own lunches.



## Sacramento, CA Agenda (Draft)

7:00 AM – 8:00 AM

**Registration**

7:30 AM – 8:00 AM

**Introduction to the 2016 National Webcast Conference and the Local Hub – Icebreaker**

8:00 AM – 9:00 AM

**Overview of Pollution Prevention: An ounce of prevention is worth a pound of cure...**

“Be the solution to stormwater pollution” or it will cost you. From pet waste to leaf litter to dumpster juice, car wash water, plastic bags, and stormwater hotspots, learn what others are doing to educate, prevent, and enforce pollution prevention in their communities.

Speakers:

Karen Cappiella, Program Director, Research – Center for Watershed Protection

Neely Law, Senior Research Analyst – Center for Watershed Protection

Kara Pennino, Assistant Program Manager - Trash Free Potomac Watershed Initiative

Christopher Kibler, Environmental Protection Specialist - District of Columbia Department of Energy and Environment

9:00 AM – 9:15 AM

**Presentation Title and Description: TBD**

Speakers:

Geoff Brousseau, Executive Director, California Area Stormwater Quality Association (CONFIRMED)

9:15 AM – 9:30 AM

**California’s New Stormwater Strategy (Laurel Warddrip)**

Presentation Title and Description: TBD

9:30 AM – 9:45 AM

**Special Issues in Arid Climates.**

Presentation Title and Description: TBD

9:45 AM – 10:00 AM

**BREAK**


10:00 AM – 10:30 AM

**Overview of IDDE: A recap of IDDE investigations by CWP across the country**

How does IDDE stack-up against other tools for meeting TMDL goals? Is this a missed opportunity for low-cost pollutant reductions? What is the prevalence of these “hidden sources of pollution?”

Speakers:

Bill Stack, Deputy Director of Programs – Center for Watershed Protection



---

**10:30 AM – 11:40 AM**

**IDDE from 3 perspectives; the municipality, the consulting community and the wastewater side**

Types of discharges and characteristics, field screening techniques and equipment, parameters to screen for, measurable successes. Hear about sewage sniffing dogs, sewershed studies, laterals and exfiltration.

Speakers:

John Cox, Water Quality Manager - City of Durham, NC (Municipal Programs Case Study)

Andres Torrizo, Principal, Hydrologist - Watershed Consulting Associates (Consultant Case Study)

Steve Jepson, Principal, Dudek Engineering, Encinitas, CA (Wastewater Engineering Approach)

**11:40 AM – 12:00 PM**

**Breaking down barriers - Key Programmatic Issues**

What does it take to integrate the waste water/stormwater programs. What role do NGO's have? What are other key issues: enforcement, accounting, funding.

Panel discussion:

All previous IDDE speakers

Dana Allen, Water Quality Specialist - Watershed Consulting Associates (Consultant Case Study)

Jonathan Baker, Water Quality Specialist - City of Durham, NC (Municipal Programs Case Study)

**12:00 PM – 1:00 PM**

**Lunch & Networking**

**1:00 PM – 1:30 PM**

**Overview of Post-Construction Stormwater Management**

Current status of PC programs across the country, why is this the juggernaut of minimum measures? The terminology tug: BMPs, SMPs, LIDs, GI, etc. and overarching stormwater paradigms. Stormwater practices for new and redevelopment vs. retrofits of existing developed areas.

Speakers:

Dave Hirschman, Senior Water Resources Specialist - Center for Watershed Protection

Tom Hegemeier, PE, Senior Project Manager - Alan Plummer Associates, Inc.

**1:30 PM – 2:10 PM**

**Let's Start with Maintenance**

How considerations of long-term maintenance will influence your front-end program decisions—know what you are getting in to. Review of common maintenance issues with BMPs, with particular emphasis on vegetated BMPs.

Speakers:

Ani Jayakaran PhD, PE, Associate Professor & LID Specialist - Washington State University – Extension (ANR Prog. Unit)

Curtis Hinman, Senior Scientist and Green Stormwater Infrastructure Specialist - Herrera Environmental Consultants

**2:10 PM – 2:30 PM**

**Local Hub Discussion/Break**



**2:30 PM – 3:00PM**

**Overview of Special MS4s- Prisons, Campuses, Etc.**

How are these MS4s treated in the regulatory process? What are unique considerations for special MS4s?

Speaker:

Ted Brown, PE, Water Resources Engineer- Biohabitats

**3:00 PM – 3:30 PM**

**Master Planning and Avoiding a Thousand Cuts**

How facility master planning can lead to efficiencies and better BMPs. What are opportunities to collaborate with surrounding MS4s/ communities?

Speakers:

Sally Hoyt, Stormwater Engineer - University of North Carolina at Chapel Hill

Ben Chandler, Vice President & Senior Sustainability & Lean Consultant - Haley & Aldrich, Inc.

**3:30 PM – 4:15 PM**

**Keeping it Clean: Top tips for facility SWPPPs**

Speaker:

Laurel Warddrip, Industrial and Construction Storm Water Unit Chief - California State Water Resources Control Board

**4:15 PM – 4:30 PM**

**Local Perspectives City of Roseville**

Delyn Ellison-Lloyd (dellison-lloyd@roseville.ca.usw)

**4:30 PM – 4:45 PM**

**Regional Special Ms4s**

Rachael Keish, BART, VTA, and others rachael@keish-environmental.com

**4:45 PM- 5:00 PM**

Diane Heinze, Environmental Assessment Supervisor, Port of Oakland (dheinze@portoakland.com)

**5:00 – 5:10**

**Concluding Remarks**