BMP Case Studies
Green Infrastructure
Stormwater Program Management
Advanced Research Topics
Industrial Stormwater Management
Water-Quality Monitoring
It is my pleasure to welcome you to the 16th annual StormCon conference in Washington State. We are grateful to the Meydenbauer Center and the Hyatt Regency Bellevue for their fantastic venues they have provided as hosts and to the beautiful City of Bellevue, the gateway to the Puget Sound.

I would like to express my appreciation to the conference sponsors and exhibitors for their recurring support. Also to Boeing Environment, Health and Safety Organization (thank you, Lori Blair), who is providing scholarship support to the many local stormwater programs working behind the scenes in the Seattle area and beyond.

From an educational standpoint, our six-track course curriculum will cover an extensive range of material that strongly focuses on BMP case studies, green infrastructure, stormwater program management, water-quality monitoring, industrial stormwater, and advanced research topics. Our presenters come from diverse geographic regions that will significantly contribute to the depth and breadth of the courses that we are offering you in Bellevue.

If you prefer to further enhance your stormwater credentials, you may want to arrive early and take one of the many accredited pre-conference workshops or certifications. This year we have eight pre-conference workshops and six certifications offering CEUs on a variety of topics. We cover everything from developing SWPPPs for different projects, to the fundamentals of MS4 management, to industrial stormwater planning, to water modeling techniques and regulatory compliance.

The most of your time in Washington, and don’t forget, find me and say hello!

Sincerely,

Brigette Burich
StormCon Director

With this program you now have the opportunity to view the educational aspect of our conference as well as what its other components have to offer. Please take time to review this program. Each day brings something special that directly addresses your needs in the workplace, offering insight, common-sense knowledge, creative ideas, and innovation. Thursday features a stormwater tour and sessions that will offer slightly longer formats, presented and attended by the innovators and leaders in the stormwater industry from throughout the country. These sessions are intended to be forward looking and highly interactive. Come prepared. Engage them. Challenge them.

If this is the first time you are considering joining us at StormCon, you’ll find that StormCon’s schedule will allow you the time to do and see everything you want. The exhibit hall will be the networking hub of the event. Exhibitors will be here to answer your questions, to demonstrate products, and to be of help. Take advantage of this. Spend time with them, and get hands on with their products and learn about their services.

Make the most of your time in Washington, and don’t forget, find me and say hello!

Sincerely,

Brigette Burich
StormCon Director

Space is limited, so register early!
### Schedule at a Glance

#### Sunday, August 27

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**Pre-Conference Courses**
- Fundamentals of an MS4 Stormwater Management Program
- Developing Effective Stormwater Pollution Management Plans

**Pre-Conference Certification Courses and Exams**
- CESSWI™ Review Course
- CPESC® Review Course
- CPISM™ Review Course
- CPISM™ Review Course
- CPEWQ® Review Course
- CISEC® Exam
- CISEC® Training Modules

#### Monday, August 28

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**Pre-Conference Courses**
- BMP Selection to Improve Your Watershed
- Construction Site SWMP Compliance: Tools, Tricks, and Tips
- Fundamentals of Industrial Stormwater Management
- Repairing Entrenched, Incised, and Degraded Channels and Streams
- Stormwater Pollution Modeling for TMDL, Non-Stormwater, and Retrofitting Analysis—An Overview of WILDLAND
- Biotic Ligand Model—An Overview
- Developing Effective Stormwater Pollution Management Plans

**Pre-Conference Certification Courses and Exams**
- CESSWI™ Exam
- CPESC® Exam
- CPISM™ Exam
- CPISM™ Exam
- CPWSWQ® Exam
- CISEC® Training Modules
- CISEC® Exam

#### Tuesday, August 29

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**Exhibit Hall Hours**
- Noon – 4:30

**Course Schedule**
- 2:00 – 3:30

**Lunch Break**
- 12:00 – 1:15

**Afternoon Refreshment Break**
- 2:00 – 3:00

**Gala Reception (Hyatt Regency Bellevue)**
- 5:30 – 8:30

#### Wednesday, August 30

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**Exhibit Hall Hours**
- 9:00 – 4:30

**Course Schedule**
- 2:00 – 3:30

**Lunch Break**
- 12:00 – 1:15

**Exhibit Hall Closing**
- 5:00 – 8:00

#### Thursday, August 31

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**Urban Floods: Learning to Walk on Water**
- 8:00 – 12:00

**Stormwater Infrastructure Policies—A Management Perspective**
- 8:00 – 12:00

**Special Session: DPR—An update on DNR stormwater program**
- 8:00 – 12:00

**Special Session: Rethinking Urban Water Management: Integrating Natural and Engineered Systems**
- 8:00 – 12:00

**Stormwater Bus Tour:**
- City of Tacoma—Point Defiance Park and Port of Tacoma Waste Hydrolics
- 8:00 – 12:00

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This is a preliminary schedule and is subject to change.
Amenities & Special Events

Exhibit Hall Opening Reception
MONDAY 8/28
4:00 PM – 7:00 PM
Meydenbauer Convention Center
Join us for the opening of the Exhibit Hall for complimentary food, drink, and to kick off the conference. It’s a great way to meet colleagues, network, and visit with vendors in a casual atmosphere. You will have complete access to vendor representatives who will be offering all the services and technologies that you need for your community’s stormwater plan.
Hosted by Suntree Technologies Inc.

Café Central
MONDAY 8/28
4:00 PM – 7:00 PM
TUESDAY 8/29
10:00 AM – 4:30 PM
WEDNESDAY 8/30
9:00 AM – 4:30 PM
Meydenbauer Convention Center Exhibit Hall
Conveniently located in the exhibit hall and the center of conference activity. Have some coffee, catch up with colleagues, and enjoy the comfort of our spacious café.

Gala Reception
TUESDAY 8/29
5:30 pm. – 8:30 pm
The Hyatt Regency Ballroom
Enjoy a very pleasant evening of relaxed entertainment and terrific food! The night will include an inspired Pacific Northwest buffet, live music, passed hors d’oeuvres, and much more. Complimentary non-alcoholic beverages and cash bars are also provided. Admission is free with your conference badge. Please join us for this favorite StormCon tradition!
Hosted by CleanWay Environmental

Opening General Session
TUESDAY 8/29
8:00 AM – 8:45 AM
The Hyatt Regency Ballroom
The keynote address graciously sponsored by AbTech Industries will provide an important window into our world, the industry, and beyond. This address will take place Tuesday morning following some important special announcements. All attendees are invited. Bring your comments and questions, and participate! Be part of the national stormwater conversation.
Hosted by AbTech

Afternoon Refreshments
TUESDAY 8/29
3:30 pm – 4:00 pm
WEDNESDAY 8/30
3:00 pm – 3:30 pm
Meydenbauer Convention Center Exhibit Hall
Join us Tuesday and Wednesday for a complimentary refreshment and power snack. Use this break from your courses to catch up with colleagues, and explore the latest technologies and services available to address all of your surface and stormwater challenges.
Breaks hosted by Stormwater magazine

Hot Topic Sessions
THURSDAY 8/31
9:00 AM – 12 PM
Panel Discussions
Stormwater Infrastructure Policies — A Management Perspective
The topic will include interactive panel discussions focusing on a variety of topics related to stormwater and drainage infrastructure. Focus areas include national and regional perspectives on infrastructure conditions and needs, financial affordability/funding options, potential policy-shaping for the changing regulatory environment, and outreach/public relations strategies to address funding needs.
Would you like to be one of the key contributors to the discussion and join the panel? Email us at stormcon@forester.net for consideration.

Urban Flooding: Learning to Walk on Water
Special Sessions
EPA—An update on EPA stormwater program
Rethinking Urban Water Management: Integrating Natural and Engineered Systems
STORMWATER BUS TOUR

City of Tacoma—Point Defiance Park and Port of Tacoma West Hylebos Pier
Bus will pick up and drop off at the Hyatt Regency Bellevue. Registration required: $85

THURSDAY 8/31
8:00 AM – 12:00 PM
0.25 CONTINUING EDUCATION UNIT

The City of Tacoma and Port of Tacoma, located south of the Hyatt Regency, Bellevue in Washington, believe that sustainability and economic development go hand-in-hand and continually strive to enhance and minimize impacts on the environment. Both the Port and the City have incorporated outside-the-box stormwater management solutions at several of their facilities that are unique in the industry, providing a model for others to follow. The bus tour will showcase how green stormwater infrastructure and concepts have advanced to the next level with very small footprints to treat runoff from large industrial port facilities and vast impacted areas of the City, significantly improving the water quality of stormwater discharge to the Commencement Bay’s prime salmon habitat.

Tour attendees will board buses at the Hyatt Regency for a ride to Tacoma, hosted by members of the Port and the City that managed design and construction of two biofiltration systems to address very difficult pollutant removal challenges. We’ll begin at Point Defiance Park overlooking the South Puget Sound to see the unique multi-stage, cascading system that treats runoff from more than 750 acres of residential and commercial land, draining to an area of Commencement Bay, 303(d) listed for arsenic, copper, lead, and zinc.

From there, we’ll take a short ride to the West Hylebos Pier Log Yard, located in the heavily industrialized heart of the Port of Tacoma. We’ll tour a four-stage treatment system utilizing two stages of media filtration, followed by two more stages of biofiltration to treat runoff from a 25-acre log yard containing pollutants very difficult to remove. This project was the first of its kind and has been functioning near flawlessly for over three years with minimal required maintenance.

The Ports’ and City’s innovative efforts strive to balance sustainable industrial activity and retrofit our urban environment with responsible waterway stewardship. Sign up for the bus tour to see some unique examples firsthand—you won’t be disappointed.

Sponsored by Kennedy/Jenks Consultants
Hosted by the Port of Tacoma & City of Tacoma, WA

Amenities & Special Events

SELFIE Challenge

During exhibit hours in the Exhibit Hall

AWARDS
First Place: $500
Second Place: $250
Third Place: $100

All attendees are welcome to participate in the photo contest, where the idea is to take selfies with exhibitors and fellow attendees all around the trade show floor. Exhibitors: it’s up to you to engage attendees at your booths so they’ll take photos with you.

How it all works: Each attendee receives a registration bag that contains the location of sponsoring exhibitor booths you must visit and other happenings that will take place in the Exhibit Hall. Use the list to find exhibitors and then use your registration badge to snap your selfie. All selfies must be posted on Twitter using the hashtag #STORMCON.

There are different ways to win: Take the most photos with exhibitor displays, take the most creative photos with exhibitor booths, or use props/objects from exhibitor booths in the most creative way. Remember to grab selfies with each of the sponsoring exhibitors. Winners will be announced between 3:00 PM and 3:30 PM on Wednesday.

There are only three rules:
1. Your exhibitor badge must be in every photo showing your name.
2. Photos must be emailed to selfie@forester.net.
3. Photos must include a representative or item from the booth, so be creative!

Bonus Points: We are inclined to give BONUS points to photos posted to Twitter using the hashtag #STORMCON.
**Fundamentals of an MS4 Stormwater Management Program**

This intermediate level course for designers and reviewers will be a "hands-on" presentation about developing effective and practical pollution management plans for different projects. This course will help participants learn about optimizing the use of temporary structures to minimize pollutant discharges due to runoff and wind. Erosion control methods will be presented and shown how their continued use can reduce construction costs during project development.

**Content includes:**
- Permit requirements and paradigm shifts in municipal stormwater management
- Identify necessary program elements for a complete MS4 program
- Fundamental program considerations for IDEE, private, and public infrastructure inspections
- Small works erosion and sediment controls
- Discussion on maintenance programs including LID infrastructure
- Considerations for sampling programs
- Group discussions on elements of a program and lessons learned

The content is designed to help municipalities develop a comprehensive stormwater management program and how to plan for meeting today’s permit requirements while looking towards the future.

**Instructor**

Nathan Hardebeck, CWT, LLC, Principal

Nathan Hardebeck has more than 16 years of experience in the environmental consulting field with an emphasis on best management practices (BMPs) and program management related to stormwater services. His professional experience and responsibilities include providing training and technical expertise for stormwater management for public agencies as well as working on behalf of private industries on their management and BMP sampling programs. A gifted educator, Nathan has the ability to communicate complex sediment and erosion control issues to clients and developers in ways that help them understand the nuances of these important topics. His knowledge in the field of stormwater management will certainly influence his ability to educate participants about the importance of managing stormwater effectively.

**Manual supplement material will be provided for participants.**

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**Developing Effective Storm Water Pollution Management Plans**

This comprehensive workshop guides program managers and engineers through the criteria necessary for selection of the most effective BMPs for a project. It begins with a discussion of pollutant types and their sources, moving into an overview of pollutant removal unit processes, followed by a discussion on regulations for impaired waters, NPS, SED, TMDLs, and numeric nutrient criteria. The next part of the course addresses the difference between new development BMP design and retrofitting existing development for TMDL compliance.

A detailed description of 33 BMPs is given—from ponds, alum injection systems, and constructed wetlands, to various types of media filters, inlet devices, sand filters, hydraulic control devices, and more. Low-impact development rainwater harvesting methods and applications will be demonstrated. A section on selection criteria gives participants a list of factors for making the best choices, including not only pollutant removal effectiveness, but also types of pollutants, available space, groundwater level, soil type, and maintenance costs. The course also includes an exploration of first flush monitoring, BMP, and BMP removal efficiency databases. Several computer models and case studies of pollutant loading calculations for TMDL compliance and pollutant removal calculations for BMPs and treatment trains are demonstrated. An in-depth look at BMP inspections and maintenance will also be given along with a method to track sediment removals from street sweeping and maintenance activities to achieve reductions in TMDL allocations.

**Instructor**

Tina Evans

Since earning her degrees in Civil and Mechanical Engineering from the Colorado School of Mines in 1999, Tina Evans has been working as a consultant at HydroDynamics Incorporated. She is involved with research for expert testimony, works on SWPPP development, and completes construction site inspections. Tina also assists with drainage assessments, develops sediment and erosion control plans for contractors, coordinates activities associated with sediment and erosion control, analyzes drainage issues for homeowners, and teaches about controlling sediment and erosion control on construction sites.

**Manual**

A manual plus supplemental material will be provided for participants.

---

**BMP Selection to Improve Your Watershed**

This intermediate level course for designers and reviewers will be a “hands-on” presentation about developing effective and practical pollution management plans for different projects. This course will help participants learn about optimizing the use of temporary structures to minimize pollutant discharges due to runoff and wind. Erosion control methods will be presented and shown how their continued use can reduce construction costs during project development.

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- Identify necessary program elements for a complete MS4 program
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- Discussion on maintenance programs including LID infrastructure
- Considerations for sampling programs
- Group discussions on elements of a program and lessons learned

The content is designed to help municipalities develop a comprehensive stormwater management program and how to plan for meeting today’s permit requirements while looking towards the future.

**Instructor**

Dr. Jerry Fifield

Since 1982 when Dr. Fifield started HydroDynamics Incorporated, he has been actively involved with drainage, sediment and erosion control, water rights, and nonpoint pollution control. Through his company, he has developed sediment and erosion control plans, completed drainage analysis, provided inspection services, and taught about cost-effective erosion control plans. His professional experience and responsibilities include providing training and technical expertise for stormwater management, and he has written numerous professional papers, researched sediment and erosion control products, and written sediment and erosion control manuals for designers and a field manual for inspectors and contractors.

Tina Evans

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**Manual**

A manual plus supplemental material will be provided for participants.

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**Construction Site SWPPP Compliance: Tools, Tricks, and Tips**

This fresh approach to stormwater compliance for construction sites will focus on strategies that are not necessarily highly technical; rather, they demand high levels of common sense. If you or your construction site exposes more than an acre of disturbed soil, you already understand the confusing, comprehensive regulations surrounding stormwater compliance.

What the industry or the regulatory professionals have not yet provided, is a simplified approach to satisfying these regulations. What can one construction site do to manage the runoff and still remain profitable? This course will be the first step in demystifying the intense, broad regulations that affect construction projects all throughout the United States. This will be done by placing focus on determining with a risk assessment mindset, what strategies are the most important in maintaining an environmentally compliant project.

In addition to onsite examples, participants will look into the design issues that often set projects up for failure, learning important lessons and mistakes to avoid when correctly assessing a site for environmental compliance and determining what practices will best manage compliance. Finally, the participant will learn what to do when unforeseen circumstances occur, how to plan for extreme situations, and what types of language to include for rapid response procedures.

Although not intended for academic purposes, this course will speak to strategies and processes of compliance, focusing on techniques that expose sites to the highest level of risk, and the common sense strategies for compliance that many sites do not take full advantage of.

Participants can expect to walk away with specific
Jennifer Hildebrand has been involved in the erosion and sediment control industry for more than 20 years. She is an M.A. in business administration from Augustsburg College and specializes in compliance program design, and site plan reviews. She has developed and delivered education and compliance programs in both the environmental and construction industry.

Her involvement in the construction industry has provided her with valuable experience in a wide variety of stormwater compliance projects and services. As a result, Jennifer has developed a selection of tools and best practices that involve several methods of hydraulic analysis, biotechnical solutions, and biotechnical applications. She has designed and built projects in Wisconsin, Iowa, Minnesota, North and South Dakota, and Manitoba, Canada. Her specials include stormwater compliance issues, training and awareness programs, site inspection programs, compliance program design, and site plan reviews. She has also developed and delivered education and compliance programs in both the construction and post-construction stormwater market.

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Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses
—An Overview of WinSLAMM
0.5 Continuing Education Unit

MONDAY 8/28
8:30 AM – 4:00 PM

This course will focus on low-cost and environmentally sensi-
tive methods to control riverbank erosion.

You will learn to:
• Quantify pollutant sources in complex urban
  watersheds
• Predict the performance and impact of many
  interacting development and control options
• Calculate pollutant loads and runoff volumes from
  various structural and non-structural management
  scenarios
• Estimate and compare the costs of stormwater
  control practices

About WinSLAMM
WinSLAMM is a Windows-based, continuous simula-
tion computer program, that helps water resources
professionals make effective decisions by modeling
the stormwater impacts of new or existing develop-
ments and evaluating the benefits of various control
measures. The WinSLAMM model has been used
for more than 15 years to calculate urban stormwater
runoff volume, pollution loads, and assess a wide
range of management measures. The model enables
accurate planning-level and design-level analyses.
Wisconsin’s Department of Natural Resources has
adopted the model for regulatory compliance pur-
poses. The WinSLAMM batch processor provides
data for decision makers to select the most cost-
effective alternative stormwater control practices.
WinSLAMM is typically used in continuous simu-
lations of at least one year of local rain events to
examine these issues over a wide range of actual site
conditions.

The one-day course will cover:
• Modeling terminology and preparing to model
  WinSLAMM theory and practice
• WinSLAMM model features and navigation
• Base file setup
• Grass swale & filter strip modeling/design
• Biofilter modeling/design
• Analyzing an example LID subdivision develop-
  ment for stormwater volume and TSS loads

INSTRUCTORS
John Voorhees, P.E., PH, Water Resources
Engineer, AECOM
Dr. Robert Pitt, Ph.D., P.E., Emeritus Cudworth
Professor of Urban Water Systems, University of
Alabama
James Bachhuber, PH, Brown and Caldwell
James Bachhuber is a nationally respected hydrologist with
extensive experience in urban stormwater management planning,
pollution modeling, stormwater permitting, ordinance develop-
ment, and the analysis of urban stormwater BMPs. At the Wis-
consin DNR, he helped develop applications for rural and urban
nonpoint source pollution load models. As a consulting engineer,
he manages water resource projects dealing with urban stormwa-
ter runoff, environmental impacts, and TMDLs.

Caroline Burger, P.E., Water Resource
Engineer, Brown and Caldwell
Caroline Burger has 10 years of experience in stormwater man-
gagement planning, pollution modeling and monitoring, hydro-
logic and hydraulic modeling, stormwater permitting, ordinance
development, and analysis of BMPs. She has extensive experi-
ence using WinSLAMM and has been a key part of the team
involved with the calibration and development of the WinSLAMM
model itself.

COURSE DESCRIPTION
This hands-on, computer-based course will demon-
strate how to use WinSLAMM to utilize source area
stormwater controls to maintain or create a hydro-
logically functional landscape that mimics natural
watersheds’ hydrologic functions (volume, frequency,
recharge, and discharge). By integrating source area
controls into site design, you can approach the pre-
development site stability to retain water and
pollutants.

Biotic Ligand Model—An Overview
0.5 Continuing Education Unit
MONDAY 8/28
3:00 PM – 4:00 PM

INSTRUCTOR
Bob Santore, MS, Partner, Windward Environmental
Bob Santore is an environmental scientist with more than 20 years
experience in environmental and aquatic chemistry, EPA regulatory
issues, site-specific criteria, water quality modeling, and chemi-
cal modeling. Bob has led efforts in developing BLM versions for a
variety of metals and environmental media, both for freshwater and
marine environments. These efforts have resulted in a number of soft-
ware packages that provide easy-to-use approaches to assess metal
bioavailability when setting site-specific water quality criteria and
assessing ecological risk associated with metals in the environment.

INSTRUCTOR
Dr. Robert Pitt, Ph.D., P.E., Emeritus Cudworth
Professor of Urban Water Systems, University of
Alabama

INSTRUCTOR
James Bachhuber, PH, Brown and Caldwell

INSTRUCTOR
Caroline Burger, P.E., Water Resource
Engineer, Brown and Caldwell

INSTRUCTOR
Bob Santore, MS, Partner, Windward Environmental
Certified Inspector of Sediment and Erosion Control (CISEC®)

Review Course ($275):
SUNDAY 8/27
8:30 AM – 5:30 PM

MONDAY 8/28
8:30 AM – 5:30 PM

Certification Exam (approval required)
1:00 PM – 5:30 PM

WHY ATTEND THIS COURSE?
CISEC, Inc. provides a nationwide inspector certification program (see www.cisecinc.org) for individuals that:

• Demonstrate comprehensive knowledge in the principles and practices of sediment and erosion control and their applicability to development of discharge permit documents.

• Demonstrate the necessary skills to observe onsite and offsite conditions that impact the quality of stormwater discharges from active construction sites, and

• Demonstrate the ability to inspect installed best management practices and their on-going maintenance to determine if the mitigation measures will minimize the discharge of sediment and other pollutants from active construction sites, and

• Demonstrate the ability to communicate and report on their inspection of active construction sites as to whether compliance issues may exist with federal, state, and/or local discharge permit regulations.

This two-day intermediate level course will provide training modules to those:

• Seeking to become construction site sediment and erosion control inspectors.

• Seeking a comprehensive education program that meets sediment and inspection requirements as found in EPA’s Construction General Permit, and

• Provide an opportunity for inspectors, designers, and regulatory personnel to improve upon their educational background before sitting for the CISEC certification examination.

COURSE OUTLINE
SUNDAY
8:30 AM – 5:30 PM

Module 1: EPA Rules & Regulations
• Clean Water Act
• NPDES 2017 General Permit
• Evaluating the CGP
• Understanding a SWPPP and the SAE drawings

Module 2: Background of an Inspector
• Definitions
• Erosion, sediment and sedimentation
• Polymers and sedimentation
• A primer on hydrology
• Hydrograph and sedimentation
• Watersheds and discharge points
• Critical inspector requirements

SWPPPs and BMPs
• Communication
• Recognizing limitations
• CISEC Code of Ethics

Module 3: Inspecting BMPs
• Understanding the phases of construction
• Inspecting
• Barriers
• Check structures
• Drains and inlets
• Sediment containment systems
• Polymers
• Wind/dust control methods
• Erosion control practices
• Hazardous waste material sites
• Writing and assessing inspection reports

MONDAY
8:30 AM – 11:30 AM

Module 4: Conducting Construction Site Inspections
• Inspection requirements
• Role of designers, inspectors, and contractors
• Inspector responsibilities during construction activities
• Inspection reports
• Reporting on BMP maintenance
• Documentation and communication
• Working with contractors and clients
• Inspecting construction sites
• During grading
• During construction

Module 5: Conducting Erosion Control
• Definitions
• Erosion, sediment and sedimentation
• Polymers and sedimentation
• A primer on hydrology
• Hydrograph and sedimentation
• Watersheds and discharge points
• Critical inspector requirements

SWPPPs and BMPs
• Communication
• Recognizing limitations
• CISEC Code of Ethics

Module 6: Stormwater Pollution Prevention Plan
• Understanding stormwater pollution prevention plans and their applicability to development of discharge permit documents
• Demonstrate the necessary skills to observe onsite and offsite conditions that impact the quality of stormwater discharges from active construction sites, and

• Demonstrate the ability to inspect installed best management practices and their on-going maintenance to determine if the mitigation measures will minimize the discharge of sediment and other pollutants from active construction sites, and

• Demonstrate the ability to communicate and report on their inspection of active construction sites as to whether compliance issues may exist with federal, state, and/or local discharge permit regulations.

This two-day intermediate level course will provide training modules to those:

• Seeking to become construction site sediment and erosion control inspectors.

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• Provide an opportunity for inspectors, designers, and regulatory personnel to improve upon their educational background before sitting for the CISEC certification examination.

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Pre-Conference Certification Courses

Certified Erosion, Sediment, and Stormwater Inspector (CESSWI™)

Review Course: SUNDAY 8/27
8:00 AM – 5:00 PM

Certification Exam: MONDAY 8/28
8:00 AM – 1:00 PM

WHAT IS CESSWI?
The Certified Erosion, Sediment, and Stormwater Inspector (CESSWI) program is intended to ensure certificants meet the Federal requirements including the EPA’s National Pollutant Discharge Elimination System (NPDES) definition of “Qualified Personnel.” CESSWI training and certification addresses all aspects of providing complete inspections for erosion and sediment control and stormwater compliance. These professionals have been tested and have demonstrated their knowledge and understanding of: documentation, communication, safety, the rules and methods of erosion and sediment control, and stormwater control and management.

CESSWI CERTIFICATION BENEFITS YOU BY
- Demonstrating proficiency in the erosion, sediment, and stormwater inspection field
- Enhancing your technical and professional credibility
- Satisfying the qualified-person requirement in some local and state programs
- Increasing personal value, recognition, and marketability
- Encouraging greater commitment and personal career growth

How to Get Certified

Applicants must successfully pass a proctored one-day exam covering safety, communication, documentation ethics, plan management, inspector duties, BMPs, and federal and state laws and regulations. A full-day exam review session is offered on Sunday, August 27, from 8:00 AM to 5:00 PM. The exam is offered the following day, Monday, August 28, from 8:00 AM to 1:00 PM. You must have prior approval to take the exam on Monday, August 28.

How to Register and Apply for the Exam

Anyone is eligible to attend the full-day review session on Sunday, August 27. Please visit www.envirocert.org Certification Portal to begin the application process. You are not eligible to take the exam unless your application has been approved.

CPESC CERTIFICATION BENEFITS YOU BY
- Enhancing your professional credibility
- Promoting public awareness of the erosion and sediment control profession
- Allowing you greater influence on policy decisions affecting technical and professional issues
- Providing access to educational opportunities and sources of information
- Leveraging your career opportunities through professional contacts

Certified Professional in Erosion and Sediment Control (CPESC®)

Review Course: SUNDAY 8/27
8:00 AM – 5:00 PM

Certification Exam: MONDAY 8/28
8:00 AM – 1:00 PM

WHAT IS CPESC?
The Certified Professional in Erosion and Sediment Control (CPESC) is a designation that provides evidence of qualifications in erosion and sediment control principles and applications. The CPESC® certification represents many disciplines and specialties that work to produce site-specific plans and designs that comprehensively address current and potential erosion and sedimentation issues with practices and measures that are cost effective, understandable, and that meet environmental and regulatory requirements.

Certified Professional in Stormwater Quality (CPSWQ®)

Review Course: SUNDAY 8/27
8:00 AM – 5:00 PM

Certification Exam: MONDAY 8/28
8:00 AM – 1:00 PM

WHAT IS CPSWQ?
The Certified Professional in Storm Water Quality (CPSWQ) is a designation that provides evidence of qualifications in stormwater management principles and methods. The CPSWQ program was created to provide professional credentials to individuals working with stormwater-quality issues. Individuals holding the CPSWQ Certification have the knowledge and abilities to help projects meet federal stormwater requirements, including EPA’s NPDES definition of “Qualified Personnel,” and also know how to ensure that the projects they oversee meet the requirements of state and local regulations.

CPSWQ CERTIFICATION BENEFITS YOU BY
- Enhancing your professional credibility
- Promoting public awareness of the stormwater profession
- Allowing you greater influence on policy decisions affecting technical and professional issues
- Providing access to educational opportunities and sources of information
- Leveraging your career opportunities through professional contacts

Register for the full-day Certified Professional in Storm Water Quality (CPSWQ) Exam Review Session on Sunday, August 27, and apply to take the exam on Monday, August 28, or participate in the review session and take the exam at a later date. You may register to attend the review session only, without having to take the exam.

How to Get Certified

Applicants must successfully pass a proctored one-day exam covering hydrology, environmental indicators, impacts of urbanization, and federal and state laws and regulations. A full-day exam review session is offered on Sunday, August 27, from 8:00 AM to 5:00 PM. The exam is offered the following day, Monday, August 28, from 8:00 AM to 1:00 PM.

How to Register and Apply for the Exam

Anyone is eligible to attend the full-day review session on Sunday, August 27. Please visit www.envirocert.org Certification Portal to begin the application process. You are not eligible to take the exam unless your application has been approved.
CPSWQ EXAM APPLICATION DEADLINE
The CPSWQ review committee needs 35 days to evaluate your information and confirm your eligibility to sit for the exam.

ENVIROCERT INTERNATIONAL, INC.
CONTACT INFORMATION
Melissa McKinney
Operations Manager
EnviroCert International, Inc.
6 E. Medical Court Drive,
Marion, NC 28752
Email: mmckinney@envirocert.org
Phone: 828-655-1600 Ext. 133
Fax: 828-655-1622
Web: www.envirocert.org

WHAT IS CPISM?
The purpose of the Certified Professional in Municipal Stormwater Management (CPMSM) program is to certify individuals who are technically and ethically qualified to manage or coordinate nationally consistent EPA NPDES MS4 programs which are in compliance with applicable (local, state, provincial, and federal) laws and regulations. CPMSM certification is available to those who have the educational training, as well as the demonstrated expertise and experience in MS4 programs. The primary target audience for this certification is Phase II MS4 staff. However, others such as Phase I MS4 staff, contractors, regulators, etc. could also benefit by obtaining the certification.

TYPICAL WORK-RELATED EXPERIENCE THAT SOMEONE SEEKING THE CERTIFICATION MAY HAVE INCLUDES
• MS4 Program Coordinators typically serve as an overall program manager.
• Coordinators manage all six minimum control measures (public education and outreach, public participation, illicit discharge detection and elimination, construction site runoff control, post-construction runoff control, and good housekeeping and pollution prevention).
• Coordinators must work well with various inter-agency departments since the MS4 permit affects many activities within a regulated MS4 area.
• Coordinators may control or assist with their overall program budget and funds.
• Coordinators give input and are responsible for ordinance language, as well as implementing those ordinances for illicit discharge, construction runoff, and post-construction runoff control.
• Coordinators manage database information pertaining to their NPDES MS4 permit.
• Coordinators are responsible for compiling and submitting compliance reporting to their state permitting authorities.

CPMSM CERTIFICATION BENEFITS YOU BY
• Enhancing your professional credibility
• Promoting public awareness of the EPA NPDES MS4 program
• Allowing you greater influence on policy decisions affecting technical and professional issues
• Providing access to educational opportunities and sources of information
• Leveraging your career opportunities through professional contacts

HOW TO GET CERTIFIED
Applicants must successfully pass a proctored one-day exam covering post-construction BMPs and LID methods, as well as implementing the six minimum control measures, environmental indicators, overall MS4 program management, as well as federal and state laws and regulations. A full-day exam review session is offered on Sunday, August 27, and apply to take the exam on Monday, August 28, or participate in the review session and take the exam at a later date. You may register to attend the review session only, without having to take the exam and obtaining pre-approval.

HOW TO REGISTER AND APPLY FOR THE EXAM
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ENVIRONMENTAL CERTIFICATION
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WHAT IS CPISM?
EnviroCert International, Inc. (ECI) provides a Professional Certification in Industrial Stormwater Management (CPISM) to verify that Certified Professionals have demonstrated a comprehensive and in-depth knowledge and understanding of the overall industrial practices from a Federal perspective. The Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activity (MSGP) is a federally mandated permit which encompasses stormwater discharges for industrial facilities. The ECI industrial certification (CPISM) ensures that the professional has met the federal requirements outlined by EPA’s MSGP.

CPISM CERTIFICATION BENEFITS YOU BY
• Permit coverage guidelines and requirements
• Eligibility under the permit
• Compliance, violations, and corrective action measures
• Effluent and pollutant control measures and limitations
• Discharge sources, outfall locations, and monitoring
• Appropriate sampling and testing procedures
• Maintenance and good housekeeping
• Mitigation design elements
• Development of BMP measures to reduce and prevent industrial stormwater discharges
• Preparing SWPPP and monitoring programs
• Post-construction BMPs and LID Methods

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Tuesday, August 29
10:00 AM – 11:30 AM
- BMP Case Studies ........................................... 406
- Green Infrastructure .......................................... 405
- Stormwater Program Management I ................. 404
- Stormwater Program Management II ............. 402-403
- Advanced Research Topics ............................... 407-408
- Water-Quality Monitoring ................................. 409

2:00 PM – 3:30 PM
- BMP Case Studies ........................................... 406
- Green Infrastructure .......................................... 405
- Stormwater Program Management I ................. 404
- Stormwater Program Management II ............. 402-403
- Advanced Research Topics ............................... 407-408
- Industrial Stormwater Management .................. 409

4:00 PM – 5:30 PM
- BMP Case Studies ........................................... 406
- Green Infrastructure .......................................... 405
- Stormwater Program Management I ................. 404
- Stormwater Program Management II ............. 402-403
- Advanced Research Topics ............................... 407-408
- Water-Quality Monitoring ................................. 409

Wednesday, August 30
8:00 AM – 9:30 AM
- BMP Case Studies ........................................... 406
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3:30 PM – 5:00 PM
- BMP Case Studies ........................................... 406
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- Stormwater Program Management II ............. 402-403
- Advanced Research Topics ............................... 407-408
- Industrial Stormwater Management .................. 409

5:00 PM – 6:00 PM
- BMP Case Studies ........................................... 406
- Green Infrastructure .......................................... 405
- Stormwater Program Management I ................. 404
- Stormwater Program Management II ............. 402-403
- Advanced Research Topics ............................... 407-408
- Water-Quality Monitoring ................................. 409

Thursday, August 31
8:00 AM – 12:00 PM
Thursday sessions are open to all attendees and will be held in the event hotel (Hyatt Regency Bellevue). Start times and room numbers will be made available as we get closer to the event.

HOT TOPIC SESSIONS

Panel Discussions
Urban Flooding: Learning to Walk on Water
Stormwater Infrastructure Policies — A Management Perspective

Special Sessions
EPA—An update on EPA stormwater program
Rethinking Urban Water Management: Integrating Natural and Engineered Systems

Tour
City of Tacoma—Point Defiance Park and Port of Tacoma West Hylebos Pier Stormwater Bus Tour
Tuesday, August 29
10:00 AM – 11:30 AM

**BMP CASE STUDIES**
Room 406

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>B11</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- Reducing Soluble Phosphorus Loads from an Agricultural Wastewater</td>
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<tr>
<td>- Iron-Enhanced Sand Filter Performance for Reducing Phosphorus From a Regional Stormwater Pond</td>
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10:00 AM – 11:00 AM

**GREEN INFRASTRUCTURE**
Room 410

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>G11</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- Developing a Monitoring Program to Assess Large-Scale Implementation of Green Infrastructure in Washington, DC</td>
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<tr>
<td>- Empowering Community Partners to Build Green Infrastructure in the Bluegrass</td>
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<tr>
<td>- Lifecycle of Green Infrastructure: Evaluations Five Years After NYC Pilot Implementation</td>
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10:30 AM – 11:30 AM

**STORMWATER PROGRAM MANAGEMENT I**
Room 404

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>P11</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- How Do You Know Your Stormwater Program is Working? Developing Measuring Sticks to Demonstrate Effectiveness</td>
<td></td>
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<tr>
<td>- Streamlining Onsite Stormwater Management: Helping Municipalities and Developers Implement New Stormwater Requirements</td>
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11:00 AM – 11:30 AM

**ADVANCED RESEARCH TOPICS**
Room 407-408

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>R11</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- Microbial Source Tracking, Pathogen Measurements, and Illness Risk During Wet Weather: The Nation’s First OMRA Case Study at a Marine Beach</td>
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<tr>
<td>- What Happens When Stormwater Discharges Are the Cause But Not the Source of Bacteria Violations</td>
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<tr>
<td>- Investigation of Toxic Chemicals in Roof Runoff</td>
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11:30 AM – 12:00 PM

**WATER-QUALITY MONITORING**
Room 409

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>P14</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- Tacoma’s Regional Facilities Payment-In-Lieu of Construction Program for NPDES Stormwater Treatment and Flow Control Requirements</td>
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<tr>
<td>- Empowering Community Partners to Build Green Infrastructure in the Bluegrass</td>
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12:00 PM – 1:00 PM

**STORMWATER PROGRAM MANAGEMENT II**
Room 402-403

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>P15</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- Advances in Microbial Source Tracking for Bacteria TMDLs</td>
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<tr>
<td>- Sediment Trap Pilot Project</td>
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1:00 PM – 2:00 PM

**GREEN INFRASTRUCTURE**
Room 405

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>G21</td>
<td>10:00 AM – 10:30 AM</td>
</tr>
<tr>
<td>- Are Parks the CSO Solution? Lessons Learned from Omaha Parks Designed to Reduce CSOs</td>
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<tr>
<td>- Evolution of Integrating Green Infrastructure in Spokane, WA</td>
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2:00 PM – 3:00 PM

**STORMWATER PROGRAM MANAGEMENT I**
Room 406

<table>
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<tr>
<th>Topic</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>B21</td>
<td>2:00 PM – 2:30 PM</td>
</tr>
<tr>
<td>- Bioretention Hydrologic Performance Modeling</td>
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<tr>
<td>- Stormwater Nutrient Reduction Using Riparian Buffers and Upland Urban Forest Systems</td>
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3:00 PM – 3:30 PM

**STORMWATER PROGRAM MANAGEMENT II**
Room 402-403

<table>
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<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>P21</td>
<td>2:00 PM – 2:30 PM</td>
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<tr>
<td>- Stormwater Credit Trading Program Architecture: Practical Advice for Increasing Program Flexibility and Reducing TMDL Compliance Cost While Avoiding Unintended Consequences</td>
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<tr>
<td>- Stormwater Program Is Working?</td>
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3:30 PM – 4:00 PM

**STORMWATER PROGRAM MANAGEMENT I**
Room 406

<table>
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<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>G22</td>
<td>3:30 PM – 3:45 PM</td>
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<tr>
<td>- Stormwater Management and Compliance for Green Infrastructure</td>
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4:00 PM – 4:30 PM

**STORMWATER PROGRAM MANAGEMENT II**
Room 402-403

<table>
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<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>P22</td>
<td>3:30 PM – 3:45 PM</td>
</tr>
<tr>
<td>- Stormwater Program Architecture: Practical Advice for Increasing Program Flexibility and Reducing TMDL Compliance Cost While Avoiding Unintended Consequences</td>
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</table>

This is a preliminary program and is subject to change.
**STORMWATER PROGRAM MANAGEMENT I**

**Room 404**

**P31** 4:00 pm – 4:30 pm  
Reaching the Construction Industry: Clean Water Contractors  
Melissa Fetter, Erie Soil and Water Conservation District, Sandy, PA  
Emily Kuirak, Old Woman Creek National Estuarine Research Reserve, Huron, OH

**P32** 4:30 pm – 5:00 pm  
Protecting Shellfish  
Rain Garden at a Time  
Brian Stahl, Kisup Conservation District, Poulsbo, WA

**P33** 5:00 pm – 5:30 pm  
Collaborating to Reach MS4  
Public Education and Outreach Goals: A Regional Approach  
Jens Melin, University of Virginia, Charlottesville, VA

**WATER-QUALITY MONITORING**  
Room 409

**P34** 4:00 pm – 4:30 pm  
Regional Approaches to Permit-Required Monitoring  
Karen Drescha, Washington State Department of Ecology, Olympia, WA

**P35** 4:30 pm – 5:00 pm  
A Regional Stormwater Monitoring Program in Washington Jurisdiction  
Brandon Lubliner, Washington State Department of Ecology, Olympia, WA

**P36** 5:00 pm – 5:30 pm  
How Toxic Is Your Stormwater?  
Kenneth Schiff, Southern California Coastal Water Research Project, Costa Mesa, CA

**STORMWATER PROGRAM MANAGEMENT II**  
Room 402-403

**P37** 4:00 pm – 4:30 pm  
Tracking MS4 Jurisdictional Outfalls in a Linear ROW: Experience From NMDOT  
Kelli Collins, ODM Smith, Albuquerque, NM

**P38** 4:30 pm – 5:00 pm  
A Standardized Approach to Stormwater Mapping  
Colleen Deisser, King County, Seattle, WA

**P39** 5:00 pm – 5:30 pm  
Automated Stormwater Drainage Delineation for MS4 Permit Compliance  
Becca Stoner, Arcadia, Richmond, VA

**ADVANCED RESEARCH TOPICS**  
Room 407-408

**P41** 8:00 am – 8:30 am  
An Evaluation of the Treatment Performance of a Bioretention Soil Mix Located in a Semi-Arid Region  
Kyle Higgins, Spokane County, Bramerton, WA

**P42** 8:30 am – 9:00 am  
Infiltration Surface Water Quality Improvements Into Coastal Restoration: An Urban Retrofit BMP Case Study  
Steve Gruber, Burns and McDonnell

**GREEN INFRASTRUCTURE**  
Room 405

**P43** 8:00 am – 8:30 am  
Where the Wild Things Are: RiverSmart Schools Integrating Design for Education and Stormwater Management  
Trina Doan, District Department of Energy and Environment, Washington DC

**P44** 8:30 am – 9:00 am  
BikeShare Partnership: Using Bike Tours to Showcase Green Infrastructure  
Augusta Rottch, Samarese, York, PA

**STORMWATER PROGRAM MANAGEMENT III**  
Room 401

**P45** 8:00 am – 8:30 am  
Decatur WAY Creates a Green Opportunity in Lowell  
James Drisko, ODM Smith, Manchester, NH

**P46** 8:30 am – 9:00 am  
Zoom In on Particle Size: Understanding Metals in Industrial Stormwater  
Alan Penmang, Kennedy/Jenks Consultants, Portland, OR

**P47** 9:00 am – 9:30 am  
Particle Size Matters: How to Use PSD Analysis and Metal Solubility Curves to Make Better Treatment Decisions  
Tatjana Maier, Seattle, WA

**STORMWATER PROGRAM MANAGEMENT IV**  
Room 402-403

**P48** 8:00 am – 8:30 am  
Approaches for Detecting and Complying With TMDL Requirements Related to Stormwater Runoff  
Anna Lantin, Michael Baker International, Irvine, CA

**P49** 8:30 am – 9:00 am  
Watershed-Based Stormwater Permit Compliance: Opportunities and Lessons Learned  
Heather Miranda, City of Santa Clarita, CA

**STORMWATER PROGRAM MANAGEMENT V**  
Room 409

**P50** 8:00 am – 8:30 am  
Rural Stormwater Programs: Strategies and Challenges  
Jared Rhode, Kentucky Sea Grant,威海, WA

**P51** 8:30 am – 9:00 am  
Removing Copper From Stormwater at a Small Foundry  
Paul Eger, Global Minerals Engineering, Hibbing, MN

**WED 10:00 AM – 11:30 AM**

**BMP CASE STUDIES**  
Room 406

**B41** 10:00 am – 10:30 am  
PennDOT Collaborates With Universities Along I-95 in Philadelphia to Understand SMP Maintenance  
Edwin Lam, AECOM, Conshohocken, PA

**B52** 10:30 am – 11:00 am  
Diagnosing and Repairing a Stormwater Management System: The Good, the Bad, and the Ugly  
Shane Shihabudeen, RPA Corps of Engineers, Louisville, KY

**R43** 11:00 am – 11:30 am  
Targeted Watershed IDDE Investigations  
Brian Behrens, Woolpert, Greensboro, NC

**GREEN INFRASTRUCTURE**  
Room 405

**G33** 10:00 am – 10:30 am  
A Stormwater Best Management Practice: The Bristlecone Pine  
Elizabeth Ullman, Lehigh University, Allentown, PA

**G34** 10:30 am – 11:00 am  
Sustainable Stormwater Analysis for the Ford Site Redevelopment, St. Paul, MN  
Shawn Foerster, Capito Regional Watershed District, St. Paul, MN

**G35** 11:00 am – 11:30 am  
Watershed-Based Stormwater Permit Compliance: Opportunities and Lessons Learned  
Heather Miranda, City of Santa Clarita, CA

**STORMWATER PROGRAM MANAGEMENT VI**  
Room 402-403

**P52** 8:00 am – 8:30 am  
Approaches for Detecting and Complying With TMDL Requirements Related to Stormwater Runoff  
Anna Lantin, Michael Baker International, Irvine, CA

**P53** 8:30 am – 9:00 am  
Watershed-Based Stormwater Permit Compliance: Opportunities and Lessons Learned  
Heather Miranda, City of Santa Clarita, CA

**ADVANCED RESEARCH TOPICS**  
Room 407-408

**R41** 8:00 am – 8:30 am  
Evaluating Urban Air Deposition on an Industrial Facility in Seattle  
Christopher Koerner, East Bay Public Works, Port Orchard, WA
STORMWATER PROGRAM MANAGEME NT I  
Room 404
PS1 10:00 am – 10:30 am
Where Drinking Water Meets Stormwater  
Kim Swain, Clackamas River Water Providers, Oregon City, OR
PS2 11:00 am – 11:30 am
Flow Restoration Planning in the Stormwater Impaired Potash Brook Watershed, South Burlington, VT  
Andres Tonizzo, Watershed Consulting Associates, Burlington, VT
PS3 11:00 am – 11:30 am
Watershed-Scale Stormwater Modeling and Planning of a Watershed Dominated by Groundwater  
Tom Kuntz, Pierce County Public Works, Tacoma, WA

STORMWATER PROGRAM MANAGEMENT II  
Room 402-403
PS4 10:00 am – 10:30 am
Watershed Approach to Recovering Urban Streams: Developing the Stormwater BMP Tracking Database  
Andrew Rheaume, City of Redmond, WA
PS5 10:30 am – 11:00 am
Watershed Approach to Recovering Urban Streams: Monticello Creek Case Study Using SUSTAIN Eric LaFrance, City of Redmond, WA
PS6 11:00 am – 11:30 am
Watershed Approach to Recovering Urban Streams: Stormwater BMP Tracking Database  
Alan Barrows, Waukesha County, WI
PS7 11:30 am – 12:00 pm
Asset Management: Telling a Comprehensive Story for Stormwater Management  
Mike Deis, City of Shoreline, WA

WED 2:00 PM – 3:00 PM
BMP CASE STUDIES  
Room 406
B61 2:00 pm – 2:30 pm
Safe Conveyance of Rare Storm Events  
Brian Wagner, MDI Technologies, Sparks, MD
B62 2:30 pm – 3:00 pm
Effectiveness of Low Impact Development Design in Poorly Draining Soils in British Columbia’s Lower Mainland  
Sara Poor, Ken Wood Leduc, Burnaby, BC

WED 3:30 PM – 5:00 PM
BMP CASE STUDIES II  
Room 402-403
B63 3:30 pm – 4:00 pm
The RainReady Approach: Linking Municipalities and Residents to Manage Combined Sewer Basement Backup  
Marcella Bondie Keenan, Center for Neighborhood Technology, Chicago, IL
B64 4:00 pm – 4:30 pm
Planned Rain Check: Residential Stormwater Management in Philadelphia  
Zachary Popkin, Pennsylvania Horticultural Society, Philadelphia, PA

WED 5:00 PM – 7:00 PM
INDUSTRIAL STORMWATER MANAGEMENT  
Room 406
B71 5:00 pm – 5:30 pm
Neighborhood Revitalization Through Collaborative Stormwater Management: Rodney Cook Sr. Park  
Cory Rayburn, City of Atlanta, GA
B72 5:30 pm – 6:00 pm
Los Angeles County Public Works Projects at Mount Vernon Lot 9: Creating Open Public Spaces While Treating Storm Flows  
Nicole M, Los Angeles County Department of Public Works, Alhambra, CA
B73 6:00 pm – 6:30 pm
Verification of Project Sustainability in the Staten Island Bluebelt Using Environ  
Ikeyo Venner, Arcadia, Tampa, FL

WED 7:00 PM – 9:00 PM
INDUSTRIAL STORMWATER MANAGEMENT II  
Room 402-403
B74 7:00 pm – 7:30 pm
IDDE Analysis: A Five-Year Study of Phase I Data  
Dan Smith, Pierce County, Tacoma, WA
B75 7:30 pm – 8:00 pm
Stormwater Source Control Effectiveness in Western Washington  
James Packman, Aspect Consulting, Seattle, WA

THURSDAY  8:00 AM – 12:00 PM
FRIDAY  8:00 AM – 12:00 PM
SATURDAY  8:00 AM – 12:00 PM
SUNDAY  8:00 AM – 12:00 PM
WEB 5:00 pm – 6:00 pm
BMP CASE STUDIES
Room 406
B81: 5:00 pm – 5:30 pm
Biophilic Soil Technology for Sustainable Erosion Control, Revegeta-
tion, and Stormwater Manage-
ment—Successful Case Studies
Marc Theisen, Profile Products,
Signal Mountain, TN
B82: 5:30 pm – 6:00 pm
Use of Skimmers to Enhance Detention Basins
James McCutchen, CCAD Engineering,
Greenville, SC

GREEN INFRASTRUCTURE
Room 405
G81: 5:00 pm – 5:30 pm
Floating Treatment Wetlands for Improved Stormwater
Pond Functioning in Cold-Climate Regions
Rebecca Thays, Lake Champlain
Sea Grant/University of Vermont/
Vermont Department of Environmental
Conservation, South Burlington, VT
G82: 5:30 pm – 6:00 pm
Venema G81: Using UICs in the Right Way
Robert Parish, Osborn Consulting,
Bellevue, WA

STORMWATER PROGRAM
MANAGEMENT
Room 404
P81: 5:00 pm – 5:30 pm
Stormwater Retrofit in King County
Claire Jonson, King County Water
and Land Resources Division,
Seattle, WA
P82: 5:30 pm – 6:00 pm
Bayou Vermilion District River
Remediation Projects: Dissolved
Oxygen Remediation Feasibility Study
Emilie Pauquet, Bayou Vermilion District,
Lafayette, LA
Chris Holland, Bayou Vermilion District,
Lafayette, LA
Lauren Carter, Bayou Vermilion District,
Lafayette, LA

ADVANCED RESEARCH TOPICS
Room 407-408
R81: 5:00 pm – 5:30 pm
Improved Methods for Stormwater Infiltration Testing
J. Scott Kindred, Kindred Hydro Inc.,
Mercer Island, WA
R82: 5:30 pm – 6:00 pm
Full-Scale Burial Testing of Pipes and Storm Chambers
James Syracco, TNI Environmental,
Anderson, SC

WATER-QUALITY
MONITORING
Room 409
Q81: 5:00 pm – 5:30 pm
Effective Sediment Basins Require More Than Simply
Containing 250 Cubic Meters
Per Hectare of Runoff
Jerald Fillefstad, HydroDynamics Inc.,
Parker, CO
Q82: 5:30 pm – 6:00 pm
Monitoring Methods for Green Infrastructure and
Stormwater BMPs
Nitin Katiyar, HDR, Mahwah, NJ
Julie Stein, HDR, Mahwah, NJ

Special Sessions
EPA—An Update on EPA
Stormwater Program
Additional information will be made available as we get closer to the event
and once permissions are approved.

Rethinking Urban Water
Management: Integrating Natural
and Engineered Systems
Paradigm shift and new thinking will be
essential to cope with the existing and
improving urban water problems. An
integrated engineered and natural sys-
tem approach aims to link urban water
infrastructure and natural systems for
sustainable urban water management.
It envisions a holistic water and energy
management system within built urban
infrastructure and natural systems for
sustainable urban water management.

Rehearing Urban Water
Management and Once Permissions are Approved

Thursday, August 31
8:00 am – 12:00 pm
Thursday sessions open to all
attendees and will be held in the event
hotel (Hyatt Regency, Bellevue). Start
times and room numbers will be made
available as we get closer to the event.
All sessions end by 12:00 pm.

HOT TOPIC SESSIONS
Panel Discussions
Urban Flooding: Learning to Walk on Water
Learning to “Walk on Water” means
taking actions that are innovative, that
transform normal stormwater man-
agement considerations. After each
session presentation, the audience
will vote on whether that manager is
“walking on water” or “sinking.” Each
presentation will summarize with “Small
steps at first,” that will set a foundation
for future steps, ultimately to reduce
urban flooding for many properties.

Walking on water topics include:
1. Understanding rainfall from
available NOAA sites
2. Mapping and modeling
3. Infrastructure innovations: observing
real-time runoff
4. Long-term funding for stormwater

Stormwater Infrastructure Poli-
cies—A Management Perspective
The topic, Stormwater Infrastructure
Policies—A Management Perspective,
will include interactive panel
discussions focusing on a variety of
topics related to stormwater and
drainage infrastructure. Focus areas
include national and regional perspec-
tives on infrastructure conditions and
needs, financial affordability/funding
options, potential policy-shaping for the
changing regulatory environment, and
outreach/public relations strategies to
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Venue and Hotel Accommodations

Bellevue

Safe, walkable, and easily accessible from anywhere in the Pacific Northwest, downtown Bellevue is a vibrant fusion of welcoming hotels, restaurants, nightclubs, arts & culture, outdoor recreation, and the Meydenbauer Convention Center. Surrounded by pristine natural beauty with big-city amenities, Bellevue offers a world-class shopping and entertainment experience and is home to innovative global corporations.

• Easy access to Seattle-Tacoma International Airport (17 miles away). This is the same distance as downtown Seattle to the airport.
• Central location in the Puget Sound; just 10 miles to Seattle. Bellevue is close to wineries, golf-courses, and other activities and destinations, including Microsoft Campus, University of Washington, Seattle Center, Snoqualmie Falls, Tilticum Village, and Pike Place Market.

About the Meydenbauer Convention Center

Meydenbauer Center opened in 1993 as the Greater Seattle area’s second-largest convention facility. Meydenbauer Center was built to grow and sustain Bellevue’s economic vitality. The Center includes 54,000 square feet of event space, including a 36,000-square-foot Center Hall and nine meeting rooms totaling 12,000 square feet. Also included is a 2,500-square-foot Executive Conference Suite as well as a 410-seat performing arts theatre.

Meydenbauer Center is owned and operated by the Bellevue Convention Center Authority (BCCA), a public development authority.

The Center hosts a wide variety of corporate meetings, banquets, consumer shows, conventions, and community events. Over 300 conventions and events are held at Meydenbauer Center annually, attended by nearly 200,000 guests each year.

About the Hyatt Regency Bellevue

Hyatt Regency Bellevue is a AAA four-diamond hotel situated on Seattle’s Eastside, in the heart of downtown Bellevue, Washington. Nestled between Lake Washington and the Cascade Mountain Range, the hotel is part of The Bellevue Collection, the Northwest’s leading shopping, dining, and entertainment destination, and offers premier services and amenities to both business and leisure travelers. From a state-of-the-art StayFit™ Gym, to high-tech business services, we’ve got you covered.

The Hyatt Regency Bellevue is within easy walking distance to the Meydenbauer Convention Center. Additional bus transportation will be available to StormCon attendees at specific intervals throughout the length of the event.

Hyatt Regency Bellevue on Seattle’s Eastside

900 Bellevue Way NE
Bellevue, Washington, 98004-4272

HYATT HOTEL RESERVATIONS & STORMCON GROUP BLOCK

Attendees can now make and manage their hotel reservations. The online reservation system is an innovative online booking system that lets you make and manage your hotel reservations online in the contracted StormCon group block.

Room rates as low as $189 (plus tax)

Passkey is the only official housing partner associated with StormCon. While other companies may contact you offering housing, they are not endorsed by or affiliated with StormCon.

To enter the Passkey Online Reservation System, use this URL: https://aws.passkey.com/go/Stormcon2017

Hyatt Regency Bellevue on Seattle’s Eastside Reservation Assistance

Tel: +1 425 462 1234 (Be sure to mention StormCon room block)

DElTA

Reservations and ticketing are available via www.delta.com/meeting. Select Book Your Flight and this will bring you to the “Book A Flight” page. Enter the meeting event code nMPVZ in the box provided. Reservations may also be made by calling our Delta Meeting reservations at 800-328-1111 (Mon–Fri, 7 am to 7 pm CDT).
Sightseeing

Bellevue, Washington

Bellevue is French for “beautiful view” and as you stroll through the thriving downtown and a wealth of outdoor spaces, you realize that Bellevue is perfectly named. It is located just 10 miles to the east of Seattle (situated between Lake Washington and Lake Sammamish). Bellevue is often simply referred to as the Eastside. This eastside city has easy access to lakeside shorelines with abundant recreational opportunities. Dedicated shoppers will enjoy the high-end retail options, while families will enjoy the family-friendly activities. Here are some recommendations for fun things to do during your visit to Bellevue, Washington:

OUTDOOR ACTIVITIES

Located between two huge lakes—Lake Washington and Lake Sammamish—Bellevue is home to many parks and outdoor spaces where you can hang out and enjoy the views, stroll along the waterfront, participate in water sports, or hike through nature.

Bellevue Downtown Park

In the center of the city, this tranquil, 20-acre oasis attracts everyone from professionals and teenagers to families and senior citizens, all of whom want a dose of the outdoors on a nice day. This elegant centerpiece of the Bellevue Parks System features a one-half-mile promenade, bordered by a double row of shade trees and a stepped canal, as well as a 240-foot-wide watertable that cascades into a reflecting pond. The 10-acre lawn area provides the perfect space and invites one to pause for a picnic with Bellevue’s skyline and Mount Rainier in the background. The park’s delightful play area and formal gardens add to family enjoyment and serve as a backdrop for community events.

Bellevue Zip Tour

A family-friendly activity that all ages can enjoy. Thanks to Bellevue Zip Tour, groups can soar high together as they explore a maze of suspended zip lines and bridges. This adventurous attraction features a series of seven zip lines and two bridges that hang amid a canopy of trees. Tours last approximately 2.5 hours. The zip lines reach as long as 600 feet and as high as 80 feet above the ground. The view from above proves stunning: a second growth forest of Douglas fir and broadleaf maple trees, plus sensational views of the downtown Bellevue skyline and the North Cascades, including Mt. Baker and Glacier Peak.

Bellevue Botanical Garden

With 36 acres of beautiful grounds and a vivid display of blooming perennials, this green space is one of Washington state’s most beloved gardens. The city of Bellevue maintains the facility, keeping it in impeccable shape year-round. Explore unspoiled woodlands, Japanese gardens, and the conservation area. Don’t forget to browse the garden lovers’ gift shop or the botanical library, which has hundreds of books in stock. Guided tours are available.

Lake Washington and Lake Sammamish

Take a hike on the Lake to Lake Trail and Greenway. The trail runs about 10 miles and connects Lake Washington and Lake Sammamish with an easy, paved walkway. The trail is marked and is accessible from several area parks and the Bellevue Botanical Garden.

Mount Rainier National Park

Ascending to 14,410 feet above sea level, Mount Rainier stands as an icon in the Washington landscape. This active volcano is the second-tallest mountain in the continental United States after California’s Mt. Whitney. Mount Rainier is the most glaciated peak in the contiguous US, spanning six major rivers. Subalpine wildflower meadows ring the icy volcano, while ancient forest cloaks Mount Rainier’s lower slopes. Wildlife abounds in the park’s ecosystems. Hundreds of miles of hiking trails wind past placid lakes and frothing waterfalls. The scenic Wonderland Trail encircles the entire park.

SHOPPING IN BELLEVUE

Bellevue offers some of the best shopping experiences in the entire Northwest. Most of the shops are within Bellevue’s downtown core, but if you wander out into the neighborhoods you’ll find interesting local retail stores and eateries, many that represent the city’s diverse immigrant population.

The 15 Best Places With a Happy Hour in Bellevue

2. El Gaucho: Steakhouse www.elgaucho.com
7. Lot No. 3: Cocktail Bar www.lotno3.com
8. McCormick & Schmick’s: Seafood Restaurant www.mccormickandsmickss.com
15. Lunchbox Laboratory: Burger Joint www.lunchboxlaboratory.com/bellevue

Check for updates at stormcon.com
Pre-Conference Courses

Registration Type: Attendee, Speaker, Sponsor, Exhibitor............$275
Student ...............................................................$75
Attendee, Speaker, Sponsor, Exhibitor............$465
Student ...............................................................$125

Registration Packages

PRE-CONfERENCE COURSES

Certified Inspector of Sediment and Erosion Control (CISEC)
Certified Professional in Water Quality (CPWSO®) Review Course
Certified Professional in Erosion and Sediment Control (CPESC®) Review Course
Certified Professional in Industrial Stormwater Management (CPISM™) Review Course
Certified Professional in Municipal Stormwater Management (CPMMSN™) Review Course
Certified Professional in Industrial Stormwater Management (CPISM™) Review Course

CONfERENCE COURSES

EARLY BIRD REGISTRATION: Please note that Early Bird discounted fees for the following packages are applicable to all registrations received prior to May 1, 2017. Pre-conference, certification courses, and offsite tours are not included in package options and are not subject to Early Bird discounts.

FULL CONFERENCE PACKAGE
TUESDAY, AUGUST 29, WEDNESDAY, AUGUST 30, AND THURSDAY, AUGUST 31 (2.5 DAYS)
EARLY BIRD Registration
Type ................................................. Fee prior to May 1
Attendee ........................................ $535
Speaker/Sponsor/Exhibitor ................. $465
Student ............................................... $100
Registration Type .... Fee May 1 to August 1*
Attendee ........................................ $575
Speaker/Sponsor/Exhibitor ................. $500
Student ............................................... $125

TWO-DAY PACKAGE
TUESDAY, AUGUST 29, AND WEDNESDAY, AUGUST 30
EARLY BIRD Registration
Type ................................................. Fee prior to May 1
Attendee ........................................ $535
Speaker/Sponsor/Exhibitor ................. $465
Student ............................................... $100
Registration Type .... Fee May 1 to August 1*
Attendee ........................................ $575
Speaker/Sponsor/Exhibitor ................. $500
Student ............................................... $125

ONE-DAY PACKAGE
TUESDAY, AUGUST 29
EARLY BIRD Registration
Type ................................................. Fee prior to May 1
Attendee ........................................ $375
Speaker/Sponsor/Exhibitor ................. $345
Student ............................................... $75
Registration Type .... Fee May 1 to August 1*
Attendee ........................................ $475
Speaker/Sponsor/Exhibitor ................. $395
Student ............................................... $75

ONE-DAY PACKAGE
WEDNESDAY, AUGUST 30
EARLY BIRD Registration
Type ................................................. Fee prior to May 1
Attendee ........................................ $375
Speaker/Sponsor/Exhibitor ................. $345
Student ............................................... $75
Registration Type .... Fee May 1 to August 1*
Attendee ........................................ $475
Speaker/Sponsor/Exhibitor ................. $395
Student ............................................... $75

ONE-DAY PACKAGE
THURSDAY, AUGUST 31
EARLY BIRD Registration
Type ................................................. Fee prior to May 1
Attendee ........................................ $375
Speaker/Sponsor/Exhibitor ................. $345
Student ............................................... $75
Registration Type .... Fee May 1 to August 1*
Attendee ........................................ $475
Speaker/Sponsor/Exhibitor ................. $395
Student ............................................... $75

*Late Registration........ Fee August 1 to August 31
2.5 days .................................................. $600

**Late Registration........ Fee August 1 to August 31
1 day .................................................. $485
Developing Effective and Practical Storm Water Pollution Prevention Plans
Sunday, August 27, Training Modules, 8:30 a.m. – 5:00 p.m.

2-Day Conference Package:
- Full Conference Package (2.5 days): $375.00 Attendee, Speaker, Sponsor, Exhibitor
- 2-Day Conference Package: Tuesday, August 29 and Wednesday, August 30: $305.00 Attendee, Speaker, Sponsor, Exhibitor

Monday, August 28, 8:30 a.m. – 4:00 p.m.
Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses - WinSLAMM
-$275.00 Attendee, Speaker, Sponsor, Exhibitor

BMP Selection to Improve Your Watershed
Tuesday, August 29, 8:30 a.m. – 4:00 p.m.
-$275.00 Attendee, Speaker, Sponsor, Exhibitor

Biotic Ligand Model (BLM)
Monday, August 28, 8:30 a.m. – 4:00 p.m.
-$275.00 Attendee, Speaker, Sponsor, Exhibitor

Wednesday, August 30
Networking Lunch: $45.00 each

Tour Registration: $85.00 each
Stormwater Bus Tour
-$85.00

9. Please Indicate Method of Payment:
- Check (Please make checks payable to StormCon)
Check (Please make checks payable to StormCon)
Checks must be payable in US dollars and drawn on a US bank. Any processing fees will be billed to the registrant.

1. Municipal Government (City, Township)
2. County Government
3. Special District/Authority
4. State Government
5. Federal Government
6. Other Government Agency dealing with surface water quality
7. Engineering/Design/Construction Firms dealing with surface water quality
8. Contracting/Construction Firm dealing with surface water quality
9. Dealer/Representative/Distributor/Sales
3. Accredited College/University/Institution/Industry
10. Association/Society/Club/Educational Institution
11. Other (Specify)

Please Note:
- Checks must be payable in U.S. dollars and drawn on a U.S. bank.
- Checks are subject to return if insufficient funds are available.
- Checks that are returned due to insufficient funds may be held for 90 days before the registrant is recertified.
- Checks will be returned to the registrant.

Registration Information
Full Name:_________________________________________________________
Company/Agency/Affiliation:___________________________________________________________________________________
City:_______________________________________________ State/Province:_______________ Zip/Postal Code:__________________ Country:__________________________
Phone:_____________________________________________ Fax:__________________________________________________
E-mail:________________________________________________________ Web Site Address:______________________________

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Yes! I wish to receive StormCon® magazine FREE

What is Your Job Title?
D. Owner/President/Vice President/Director/Manager
E. Manager/Director/Foreman/Supervisor/Inspector
F. Engineer/Technician/Specialist/Designer
G. Program Manager/Coordinator/Project Manager/Planner
H. Other (Specify)

Cancellation Policy:
Cancellations prior to July 2, 2017, will be subject to a processing fee of 35%.

Questions? Contact us at 805-679-7631. This form may be reproduced without the written permission of StormCon.

Boeing supports protecting and improving water quality for the benefit of the community and environment, and shares knowledge about stormwater management, source control, and restoration for the betterment of the communities where our employees live and work.

Various types of stormwater treatment, ranging from advanced technologies like chitosan enhanced treatment to sustainable green infrastructure such as biofilters, are in use to help Boeing manage and improve the quality of stormwater runoff from its facilities.

Boeing’s leadership in stormwater management includes collaborating with numerous research and nonprofit groups such as the Nature Conservancy, the Washington Stormwater Center (WSC), Los Angeles Conservation Corps, Washington State University (WSU), the University of Alabama, and the University of California, Los Angeles, on technology and green infrastructure solutions that can mitigate stormwater pollution.

Boeing is the world’s largest aerospace company and leading manufacturer of commercial jetliners and defense, space, and security systems. As America’s biggest manufacturing exporter, the company supports airlines and US and allied government customers in more than 150 countries.
Join us in Bellevue this summer!
August 27–31, 2017
Meydenbauer Convention Center & Hyatt Regency Hotel