THE SURFACE WATER QUALITY CONFERENCE & EXPO

StormCon® Indianapolis

AUGUST 22–25
Indiana Convention Center

2016 Conference Program

- BMP Case Studies
- Green Infrastructure
- Stormwater Program Management
- Water-Quality Monitoring
- Industrial Stormwater Management
- Advanced Research Topics
- Stormwater Management for Solid Waste Facilities
Welcome to StormCon’s 15th annual conference and exposition.

Welcome to StormCon’s 15th annual conference and exposition. Indianapolis here we come! For the first time ever, StormCon 2016 will be colocated with WasteCon 2016 in Indianapolis this August 22–25. The event colocation covers a broad range of topics, from the basics to the most innovative and cutting-edge advances in the stormwater and waste management sectors. The tradeshow floor will be open to all attendees and guests of both conferences.

We look forward to bringing the country’s leading educational program for stormwater and waste management professionals to the Hoosier State this year, delivering to you quality educational opportunities, a giant show floor displaying the leading technologies in both fields, and a perfectly balanced conference experience.

StormCon’s educational content continues to be the most timely, cutting-edge, and comprehensive offered anywhere in the country and will be presented by a diverse range of industry professionals and academics who are directly involved in the areas of stormwater management, BMPs, green infrastructure, rainwater harvesting, watershed management, research, and monitoring. In addition, we look forward to our recent association with Green Roofs for Healthy Cities and their participation now and in the future.

This year, we are excited to announce a new curriculum the days leading up to the main event. Select from eight pre-conference courses designed to provide you with the in-depth knowledge you need to advance your career. Inherently multi-disciplinary, the fully accredited preconference is designed for all who have a direct stake in stormwater management, nonpoint source pollution, and urban water systems.

No other conference in the world offers you this chance to directly interact with such a highly representative, influential group of professionals who are passionate like you about water-quality issues. I encourage you to spend some time with this program and discover just how diverse our course offerings are.

Our networking opportunities outside of the curriculum are designed to allow you the time to meet colleagues who are facing similar challenges, share your knowledge, and have some fun. To mark the 15th Anniversary of StormCon and our colocation with WasteCon, we will have a special networking party celebration to be held at the historic Indianapolis Speedway. Are you ready to take a high-speed lap around the track?

Take advantage of all that this year has to offer. Join us for an unprecedented opportunity for professional development, collaboration, industry advancement, and fun for all attendees, presenters, sponsors, and exhibitors. You will not be disappointed.

Join us in Indianapolis!

Sincerely

Scott Nania, StormCon Director
4 Schedule at a Glance

6 Amenities & Special Events

10 Earn CEU Credit With 8 Pre-Conference Courses
10 Developing Effective and Practical Storm Water Pollution Prevention Plans
10 Comprehensive Stream Stabilization & Restoration Workshop, with an Emphasis on Urban Streams
11 BMP Selection to Improve Your Watershed
11 Construction Site SWPPP Compliance: Learning to Truly Implement a Compliant Program
12 Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses—An Overview of WinSLAMM
13 Lessons Learned from Surviving MS4 Program Audits
14 Myth Busters: Overcoming Barriers to Green Infrastructure
15 Stormwater Quality Modeling with the Stochastic Empirical Dilution Model (SELDM)—An Overview

16 Pre-Conference Certification Course
Certified Inspector of Sediment and Erosion Control (CISEC)

18 Exhibitors/Exhibit Hall

19 Conference Courses
19 Program Tracks/Conference Course Schedule
20 Tuesday, August 23rd Conference Course Descriptions
23 Wednesday, August 24th Conference Course Descriptions
27 Thursday, August 25th Conference Course Descriptions

28 Where, When, & How
28 Venue/Hotel Accommodations
30 Sightseeing Top Spots
32 Pre-Conference Registration Packages/Fees
32 Conference Registration Packages/Fees
34 Registration Form

Space is limited, so register early!

Check for updates at stormcon.com
### Sun. August 21

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00 AM</th>
<th>8:00 AM</th>
<th>9:00 AM</th>
<th>10:00 AM</th>
<th>11:00 AM</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
<th>2:00 PM</th>
<th>3:00 PM</th>
<th>4:00 PM</th>
<th>5:00 PM</th>
<th>6:00 PM</th>
<th>7:00 PM</th>
<th>8:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:30–5:00</td>
</tr>
</tbody>
</table>

#### PRE-CONFERENCE COURSES

- **Developing Effective and Practical Storm Water Pollution Prevention Plans**
  - **Two Days**: Sunday, Monday
  - **8:00–4:00**

- **Comprehensive Stream Stabilization & Restoration Workshop, with an Emphasis on Urban Streams**
  - **Two Days**: Sunday, Monday
  - **8:00–4:00**

#### PRE-CONFERENCE CERTIFICATION COURSE

- **CISEC®**
  - Training Modules **8:30–5:30**

### Mon. August 22

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00 AM</th>
<th>8:00 AM</th>
<th>9:00 AM</th>
<th>10:00 AM</th>
<th>11:00 AM</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
<th>2:00 PM</th>
<th>3:00 PM</th>
<th>4:00 PM</th>
<th>5:00 PM</th>
<th>6:00 PM</th>
<th>7:00 PM</th>
<th>8:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:30–5:00</td>
</tr>
</tbody>
</table>

**EXHIBITS SETUP**: Please refer to the exhibitor service manual for exact move-in times

#### PRE-CONFERENCE COURSES

- **Developing Effective and Practical Storm Water Pollution Prevention Plans**
  - **Two Days**: Sunday, Monday
  - **8:00–4:00**

- **Comprehensive Stream Stabilization & Restoration Workshop, with an Emphasis on Urban Streams**
  - **Two Days**: Sunday, Monday
  - **8:00–4:00**

- **BMP Selection to Improve Your Watershed**
  - **8:00–4:00**

- **Construction Site SWPPP Compliance: Learning to Truly Implement a Compliant Program**
  - **8:00–4:00**

- **Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses—An Overview of WinSLAMM**
  - **8:00–4:00**

- **Stormwater Quality Modeling with the Stochastic Empirical Dilution Model (SELDM)—An Overview**
  - **8:00–4:00**

- **Myth Busters: Overcoming Barriers to Green Infrastructure**
  - **8:00–4:00**

- **Lessons Learned from Surviving MS4 Program Audits**
  - **8:00–4:00**

#### PRE-CONFERENCE CERTIFICATION COURSE AND EXAM

- **CISEC®**
  - Training Modules **8:30–5:30**

#### EXHIBIT HALL OPEN

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00–9:00</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### EXHIBIT HALL RECEPTION

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00–9:00</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Tues. August 23

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00 AM</th>
<th>8:00 AM</th>
<th>9:00 AM</th>
<th>10:00 AM</th>
<th>11:00 AM</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
<th>2:00 PM</th>
<th>3:00 PM</th>
<th>4:00 PM</th>
<th>5:00 PM</th>
<th>6:00 PM</th>
<th>7:00 PM</th>
<th>8:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00-5:00 AM</td>
<td>Registration Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE SCHEDULE**

- **8:00 AM – 9:00 AM, 10:00 AM – 11:30 AM**
- **1:30 PM – 3:00 PM, 3:30 PM – 5:00 PM**

**EXHIBIT HALL OPEN**

10:00-2:00

**OPENING GENERAL SESSION**

- **9:00 AM – 9:45 AM**

**LUNCHEON**

- **12:15 PM – 1:15 PM**

**AFTERNOON REFRESHMENT BREAK**

- **3:00 PM – 3:30 PM**

**GALA RECEPTION AT THE INDIANAPOLIS MOTOR SPEEDWAY**

5:30-10:30

**EXHIBITS DISMANTLE**

5:00-8:00

---

Wed. August 24

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00 AM</th>
<th>8:00 AM</th>
<th>9:00 AM</th>
<th>10:00 AM</th>
<th>11:00 AM</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
<th>2:00 PM</th>
<th>3:00 PM</th>
<th>4:00 PM</th>
<th>5:00 PM</th>
<th>6:00 PM</th>
<th>7:00 PM</th>
<th>8:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00-5:00 AM</td>
<td>Registration Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE SCHEDULE**

- **8:00 AM – 9:00 AM, 9:30 AM – 11:00 AM**
- **1:30 PM – 3:00 PM, 3:30 PM – 5:00 PM**

**EXHIBIT HALL OPEN**

1:00-5:00

**LUNCHEON**

12:15-1:15 PM

**AFTERNOON REFRESHMENT BREAK**

3:00 PM – 3:30 PM

**GALA RECEPTION AT THE INDIANAPOLIS MOTOR SPEEDWAY**

5:30-10:30

**EXHIBITS DISMANTLE**

5:00-8:00

---

Thurs. August 25

<table>
<thead>
<tr>
<th>Time</th>
<th>7:00 AM</th>
<th>8:00 AM</th>
<th>9:00 AM</th>
<th>10:00 AM</th>
<th>11:00 AM</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
<th>2:00 PM</th>
<th>3:00 PM</th>
<th>4:00 PM</th>
<th>5:00 PM</th>
<th>6:00 PM</th>
<th>7:00 PM</th>
<th>8:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00-11:00 AM</td>
<td>Registration Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE SCHEDULE**

- **8:00 AM – 9:30 AM, 10:00 AM – 11:30 AM**

**HALF DAY SESSIONS**

- Apocalyptic Erosion Control: Sustainable Soil Strategies Under El Niño and Drought Conditions
- Save It for a Rainy Day: Stormwater Program Planning and Funding

**BIKE OR BUS STORMWATER TOURS**

(See pages 8-9 for more information)

8:00-12:00

**EXHIBITS DISMANTLE**

8:00-12:00

---

Schedule subject to change.
### TOP 5 REASONS TO ATTEND STORMCON 2016

1. Professional development
2. Flexible conference schedule
3. Technical and user experience tracks
4. Unique networking opportunities
5. Exhibits and field trips

---

### Exhibit Hall Reception

**Monday, August 22**  
7:00 PM – 9:00 PM  
**Location:** Indiana Convention Center Exhibit Hall

Join us for the opening of the Exhibit Hall for complimentary food, drink, and to kick off the conference at 7:00 PM. It’s a great way to meet colleagues, network, and visit with vendors in a casual atmosphere. You will have complete access to both StormCon and WasteCon exhibit areas, as well as some special surprises.

*Hosted by Suntree Technologies Inc.*

---

### Opening General Session

**Tuesday, August 23**  
9:00 AM – 9:45 AM  
**Location:** Convention Center 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*

---

### NETWORK AT THE INDIANAPOLIS MOTOR SPEEDWAY

**Wednesday, August 24**  
5:30 PM – 10:30 PM  
**Location:** Pagoda Pavilion – Speedway, Indiana

*Join the Fun at the Indianapolis Motor Speedway!*

The Indianapolis Motor Speedway, home of the Indianapolis 500 and the Brickyard 400, will host the biggest networking event of the year.
Amenities & Special Events

Tuesday, August 23
12:15 pm – 1:15 pm
Location: Indiana Convention Center Exhibit Hall

Wednesday, August 24
12:15 pm – 1:15 pm
Location: Ballroom 1

Join your peers at StormCon’s fantastic buffet networking lunches on Tuesday and Wednesday. The course sessions are limited during the luncheons so that you may take full advantage of this conference highlight and networking opportunity.

Luncheons

Tuesday, August 23
3:00 pm – 3:30 pm
Location: Exhibit Hall

Wednesday, August 24
3:00 pm – 3:30 pm
Location: Exhibit Hall

Join us Tuesday and Wednesday for a complimentary refreshment and power snack. Use this break from your course to catch up with colleagues, and explore the latest technologies and services available to address all of your surface and stormwater challenges.

Afternoon Refreshment Breaks

Tuesday, August 23
3:00 pm – 3:30 pm

Wednesday, August 24
3:00 pm – 3:30 pm

ATTENDEE PROFILE

• Stormwater managers
• County and state government officials
• Municipal government representatives
• Consultants
• Distributors
• Erosion and sediment control professionals
• Industrial stormwater managers
• Green infrastructure representatives
• Engineers
• Contractors
• Federal agency representatives
• Project managers

Check for updates at stormcon.com
THURSDAY’S SPECIALS

Thursday, August 25
8:00 AM – 12:00 PM

Saving for a Rainy Day
Municipal Stormwater Planning and Funding

This session covers watershed planning, creating a stable local funding process, and how to apply for Federal stormwater funding. This session will provide practical steps, examples, and guidance to better plan and fund your municipal stormwater program. Please attend with questions to ask, as the goal of this presentation is to build a dialogue and relationships with the presenters. Representatives include USACE, FEMA, and EPA. This session is included with your registration.

Hosted by: Mark Hoskins P.E., Michael Baker International

Taking It to the Streets: A Tour of Green Infrastructure in Indy

The Taking It to the Streets tour will expose participants to a variety of green infrastructure installations in the urban core of Indianapolis, Indiana. The Tour will stop at sites in the downtown corridor, including the world class Indianapolis Cultural Trail, urban neighborhoods, commercial districts, and higher education institutions.

Citizens Energy Group, the utility who owns the stormwater system, is working to reduce combined sewer overflow events resulting in 50 million gallons of sewage in the six waterways, which flow through Indianapolis. In addition to CSO reduction, partners from the private, non-profit, and public sectors will discuss with participants how green infrastructure has served in neighborhood revitalization efforts, multimodal connectivity, and placemaking initiatives. Participants will understand how different applications of green infrastructure can be utilized for a variety of contexts and applications. Additional registration is required.

Hosted by: John Hazlett, LEED AP O+M, Team Leader–Integrated Planning, Williams Creek Consulting; Sarah Evans, PLA, Project Designer + Marketing Coordinator, Williams Creek Consulting; Tim King, P.E., LEED AP BD+C, Civil Engineer, Guidon Design Inc.; Hannah Fleck, Civil Engineer + Sustainability Specialist, Guidon Design Inc.
Stormwater Bike Tour
See, Experience, Explore Indy: Green Infrastructure Bike Tour

Join us for a green infrastructure bike tour through downtown Indy. See award-winning public and private green infrastructure projects throughout the tour, including more than 25,000 square feet of stormwater planters along the Cultural Trail. Owners and designers will be on site to provide project background and answer questions. The Indianapolis Cultural Trail is an 8-mile world class urban bike and pedestrian path and serves as the downtown hub for central Indiana’s vast greenway system. Experience public art exhibits and urban green space on an easy-paced bike ride around Indy. Space is limited. Please contact stormcon@forester.net or call Brigette at 805-679-7631 to reserve your bicycle.

Hosted by: Heather Williams, LEED AP, Senior Project Manager, Environment & Infrastructure, Amec Foster Wheeler

SELFIE Photo Contest CHALLENGE

All Days/Always
Location: Exhibit Hall

AWARDS
1st Place: $500
2nd Place: $250
3rd 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 exhibitors/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 e-mailed to selfie@forester.net.
3. Photos must include 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.

Hosted by Forester University

Check for updates at stormcon.com
Developing Effective and Practical Storm Water Pollution Prevention Plans

TWO DAYS: Sunday, Monday – August 21 and 22
8:00 AM – 4:00 PM

1.0 Continuing Education Unit
Registration Fee: $250
Skill Level: Advanced

This intermediate level course for designers and reviewers will be a “hands-on” presentation about developing effective and practical SWPPPs for different projects (e.g., subdivision, linear, commercial, etc.). Participants will 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. Emphasis on identifying limitations of sediment and erosion control methods will be continually stressed throughout the two-day class. While working in small groups, participants will develop SWPPP narratives and sediment and erosion control plans by assessing site conditions, deciding how project development will occur, identifying BMPs to use, generating specifications, creating inspection requirements, and so forth. The class will culminate with each group presenting their SWPPP narrative and the accompanying sediment and erosion control plans.

INSTRUCTORS

Jerald Fifield, Ph.D, CPESC, CISEC, President, HydroDynamics Inc.
Since 1982 when Dr. Jerald 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 develops sediment and erosion control plans, completes drainage analysis, provides inspection services, and teaches about controlling sediment and erosion on construction sites. Jerry has authored numerous professional papers, researched sediment and erosion control products, and written a sediment and erosion control manual for designers and a field manual for inspectors and contractors.

Tina Evans, RE, CISEC, CPESC, Project Engineer, HydroDynamics Inc.
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 on construction sites.

Manual Material: Supplemental material will also be given to the participants.

Comprehensive Stream Stabilization & Restoration Workshop, with an Emphasis on Urban Streams

TWO DAYS: Sunday, Monday – August 21 and 22
8:00 AM – 4:00 PM

1.0 Continuing Education Unit
Registration Fee: $250

COURSE DESCRIPTION

Urbanization, with its associated decrease in overall infiltration and increase in impermeable surfaces, along with a proliferation of hydrologic and hydraulic sciences that “get the water off the site,” frequently result in incision of the associated urban streams. Not just urbanization, but also other anthropogenic factors such as dams, heavy long-term grazing, highly roaded timber areas, and instream gravel mining.

Urban stream entrenchment, incision, and degradation are a high-priority, national issue leading to poor water quality, loss of riparian function, loss of aquatic habitat, and costly threats to infrastructure. The new provisions of the Clean Water Act are an attempt to deal with these issues. Post-construction BMPs and revegetation requirements, along with LID and other reductions of hydromodification during development and construction, are now required as part of the NPDES program.

Urban streams which are “properly functioning,” often mimicking pre-development conditions, with healthy stream buffers, riparian zones, and instream function can often ameliorate the effects of urbanization and other anthropogenic land use problems.

This course will deal with some of the tools needed to design and build naturally functioning stream, river, and creek reaches. The material will be presented with the extensive use of Case Studies. John McCullah will present projects utilizing Bioengineering and Environmentally Sensitive techniques from US and Canada, to New Zealand, some spanning over 15 years. David Derrick will present many projects from his extensive collection of stream projects. They will be joined by guest presenters representing a large firm with worldwide experience restoring stream function.

In 2005, the Transportation Research Board and National Cooperative Highway Research Board published “NCHRP Report 544—Environmentally Sensitive Channel- and Bank-Protection Methods.” This report, authored by J. McCullah, D. Gray, and D. F. Shields, was published on CD and includes more than 50 techniques, from directive Rock Vanes and Bendway Weirs, to Vegetated Rip Rap and Longitudinal Stone Toe with Live Siltation. It incorporates design considerations, construction specifications, and detailed drawings. An educational version of this design guidance document will be provided free to all StormCon class attendees.

This class is a must for engineers, hydrologists, planners, and ecologists who are challenged with urban stream “greening,” repair, and restoration. Join these experienced project designers and builders to see what has worked, and what not. The training will be fast and fluid, using case studies, Dirt Time movie clips, and extensive use of case studies. Guidance documents, including NCHRP Report 544—Environmentally Sensitive Channel- and Bank-Protection Methods on CD, will be provided for free.

COURSE HIGHLIGHTS

Basic fluvio geomorphology
• Stream form and process
• Lane’s Equation, channel evolution model
• Cause and effects of entrenchment
Techniques for Channel and Bank Stabilization

- Part One – John McCullah
- Part Two – David Derrick
- Part Three – Guest Presenters

Other Solutions

- Flood terraces, inset floodplains

Open Forum, Questions, and Wrap Up

INSTRUCTORS

John McCullah, President, Salix Applied Earthcare, Northern California

John McCullah is a fluvio geomorphologist and Certified Professional Erosion and Sediment Control Specialist (CPESC) with more than 20 years of experience implementing erosion control, stream/river restoration, and bioengineering projects. John’s trainings are filled with first hand, practical experiences. He will show you not only what applications work, but why some practices are not so good! This course will focus on low-cost and environmentally sensitive methods to control riverbank erosion.

John has a B.S. from Humboldt University in Watershed Geology, an A.A. in Biology from Shasta College, and is a CA Landscape Contractor. He has been an adjunct instructor at Shasta College for 16 years. As past Project Manager for Trinity and Western Shasta RCDs and as current Executive Director for Sacramento Watersheds Action Group, he has had extensive experience designing, building, and monitoring projects.

Dave Derrick, Potomologist & Senior Restoration Consultant, Carden ENTRIX

Dave Derrick specializes in bioengineering and redirecitve energy management methods to stabilize and provide environmental uplift to every size of river and stream, with many projects in urban settings.

In a typical year, Dave spends more than 200 days on the road, teaching 600 to 1,000 students a year; is the lead designer or a member of the design team for 60 to 100 projects a year; and provides construction oversight (builds) for 5 to 15 projects per year, many as hands-on workshops for fellow professionals.

Dave has been instrumental in pioneering the use of Bendway Weirs to redirect stream energy and flow to protect roads, highway bridge abutments, and high-pressure pipeline crossings. He has also developed and refined more than 20 other cost-effective stream protection techniques, including: Living Half-Drowned Bushes, Sit Trench Pole Plantings, Hydraulic Cover Stones, Viffles (a combination Cross Vane and Rocked Riffle, co-developed with John McCullah), Angle Slams, Grand Slams, and Wrong-Way Bolt-Up Pools.

Dave graduated with a B.S. in Civil Engineering in 1978 from Villanova University, Villanova, PA; has consulted for dozens of clients over the last 17 years; and recently retired after 34 years as a Research Hydraulic Engineer from the US Army Corps of Engineers.

BMP Selection to Improve Your Watershed

Monday, August 22, 2016
8:00 AM – 4:00 PM

0.5 Continuing Education Unit
Registration Fee: $250

COURSE DESCRIPTION

Selecting the right Best Management Practices (BMPs) is crucial for protecting and improving watersheds, but understanding the array of choices and the conditions in which different BMPs are most effective can seem overwhelming. 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, NPDES, 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, hydrodynamic 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 workshop also includes discussions of first flush, monitoring of BMPs, 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

Stuart Stein, P.E., DWRE, President, GKY and Associates

Stuart Stein has more than 29 years of experience in stormwater management and water resources engineering, including watershed management plans, stormwater and drainage studies, MS4 compliance, BMP design and analysis, TMDLs, and flood studies. He has coauthored several publications, including the Federal Highway Administration’s popular Evaluation and Management of Highway Runoff Water Quality, and its Urban Drainage Design Manual, Hydraulic Engineering Circular No. 22. He assisted the EPA’s Office of Policy in evaluating the impacts of land development alternatives (e.g., traditional sprawl, smart growth) on water quality. Stuart serves on the faculty of Virginia Tech’s civil engineering department, where he teaches urban hydrology and environmental systems modeling. He was also chair of the ASCE’s National Urban Water Infrastructure Management Committee and chair of the ASCE TMDL Evaluation Task Committee.

Construction Site SWPPP Compliance: Learning to Truly Implement a Compliant Program

Monday, August 22, 2016
8:00 AM – 4:00 PM

0.5 Continuing Education Unit
Registration Fee: $250

COURSE DESCRIPTION

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.
Pre-Conference Courses

What the industry or the regulatory professionals have not yet provided is a simple, plain 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. Further, this course will 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, this course will look into the design issues that often set projects up for failure. The participant will learn 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. The course will focus on techniques, not specific practice installation or performance standards. In addition, the goal of this course is to share common misconceptions, 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.

Finally, this course will provide the participant with specific techniques, for each phase of construction that will aid the site manager in making sure their project is not fined. In addition to case history examples, interviews with project managers, and site environmental penalty examples, this course provides real data to consider when making site management decisions.

The key concept remains: plain, construction-focused language that will allow the participant to make informed decisions for environmental compliance.

INSTRUCTOR
Jennifer Hildebrand, CPE.SC, CPWSQ, CESSWI, CISEC
environmental compliance manager, WSB and Associates Inc.

Jennifer Hildebrand has been involved in the erosion and sediment industry for more than 18 years. With an M.A. in business administration from Augsburg College, she specializes in compliance strategies within the stormwater market.

Currently with WSB and Associates, Jennifer’s experience and industry involvement allow WSB to deliver excellence in environmental compliance to their clients. Her specialties include stormwater compliance issues, training and awareness programs, site inspection programs, compliance program design, and site plan reviews. She has developed and delivered education and compliance programs in both the construction and post-construction stormwater market. Her involvement in the construction industry has provided her with valuable experience in a wide variety of stormwater compliance products and services.

As a result, Jennifer has developed a selection of technologies that involve several methods of hydraulic application techniques and biotechnical stabilization practices throughout the United States and Canada. This private industry experience and public representation experience provides opportunities for facilitation of appropriate stormwater, erosion, sediment, control programs, and techniques. In addition, this experience illuminates the challenges and opportunities that exist in post construction phases of stormwater compliance.

Her presentations and classes have been conducted in many states throughout the United States and Canada. She has also spoken and presented materials at multiple government agencies and Departments of Transportation. She has been a part of specifications and standards development for Wisconsin; Iowa; Minnesota; North and South Dakota; and Manitoba, Canada.

Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses—An Overview of WinSLAMM

Monday, August 22, 2016
8:00 AM – 4:00 PM

0.5 Continuing Education Unit
Registration Fee: $250

This course requires all attendees to have a laptop computer with them for use during the course. If you plan on attending with someone from your organization, you may also share a computer.

Attendees with their own laptop may use a temporary license of the model during the course. WinSLAMM can be run on a PC with Windows XP, Vista, or Windows 7 and will need a CD drive and/or a USB port to load the program. You will need administrative privileges for the computer if the program is not pre-loaded.

COURSE DESCRIPTION
This hands-on, computer-based course will demonstrate how to use WinSLAMM to utilize source area stormwater controls to maintain or create a hydrologically 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.

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 simulation computer program, that helps water resources professionals make effective decisions by modeling the stormwater impacts of new or existing developments and evaluating the benefits of various control measures. The WinSLAMM model has been used for over 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 purposes. 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 simulations 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 development 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 development, and the analysis of urban stormwater BMPs. At the Wisconsin 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 stormwater runoff, environmental impacts, and TMDLs.

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

Caroline Burger has 10 years of experience in stormwater management planning, pollution modeling and monitoring, hydrologic and hydraulic modeling, stormwater permitting, ordinance development, and analysis of BMPs. She has extensive experience using WinSLAMM and has been a key part of the team involved with the calibration and development of the WinSLAMM model itself.

Lessons Learned from Surviving MS4 Program Audits

Monday, August 22, 2016
8:00 AM – 4:00 PM
0.5 Continuing Education Unit
Registration Fee: $250

Municipal Separate Storm Sewer System, or MS4, permittees are always left to wonder: “Is my program good enough?” “How good does my program have to be?” “Will my entity be able to pass a regulatory program audit?”

Some states have experienced extensive, robust regulatory program audits while others have not. The state of Indiana’s 170-plus MS4s have seen three major audits conducted by the state Indiana Department of Environmental Management (IDEM) in the last seven years. Course attendees will benefit from the presenters’ first-hand experiences of successfully completing many MS4 audits. Whether your community is preparing for an upcoming audit, or wishes to assess how their program compares with other MS4s, this course can assist you.

This day-long course will include the following main topics:

1. Introduction, including history of and background information on the MS4 program
2. An overview of the federal regulations with some state-specific examples, as well as a discussion on how permits are issued and different types of legally binding agreements
3. Key considerations for overall stormwater program management such as staffing, data management, budgeting, and developing strategic partnerships
4. A review of the public education, public participation, illicit discharge detection and elimination, construction, post-construction, and good housekeeping and pollution prevention MS4 program areas, including specific case study examples and “how to” tips for implementation
5. Overview of reporting documents such as the Stormwater management plan, annual reports, various inspection forms, and other permit-related documentation with recommendations for enhancements and discussion on how the proper preparation of these documents can help prevent future audits
6. Audit preparation examples, tips, and techniques
7. How to do various types of program evaluations and assessments to determine the overall health of an MS4 program and give ideas for future enhancements, including a discussion on determining measurable goals and the iterative management process

Materials utilized will be credited and sourced from US EPA, the Center for Watershed Protection, various MS4 entities, the California Stormwater Quality Association, and the presenters’ own personal experience with more than 50 MS4 clients.

INSTRUCTORS

Lori Gates, CPSESC, CPSWQ, CMS4S, CESSWI, Senior Project Manager, Christopher B. Burke Engineering LLC

As a Senior Project Manager with Christopher B. Burke Engineering, Ltd. since 2003, Lori Gates has been responsible for stormwater regulatory compliance for water resources and environmental projects. She has worked with more than 50 MS4 entities throughout the state of Indiana.

Her specific duties involve ensuring that all municipal, construction, and industrial stormwater-quality projects and permits are in compliance with the NPDES Storm Water Permit program, including Section 402 of the Clean Water Act, the Phase I and Phase II MS4 program permitting programs, the Construction Run-off program, and the Industrial Run-off program and project oversight of ongoing required permit implementation activities.

Previous duties include serving as the State of Indiana’s lead technical expert for the NPDES Storm Water program at IDEM. She received the Indiana Association for Floodplain and Stormwater Management (INAFSM)’s “Chairman’s Award for Outstanding Service in Support of the INAFSM” in 2006 and is a past chair of the statewide Stormwater Committee. She is the current Vice Chair of the INAFSM Board of Directors. Lori also is a Past Chair of the EnviroCert International Board of Directors and a Past Chair of the Certified Municipal Separate Stormwater System Specialist, CMS4S Inc. Council. She was a primary author on the CMS4S Review Course manual and is an Approved Instructor for the CMS4S and Certified Professional in Stormwater Quality, CPSWQ certifications.

Heather Buck, CPSWQ, CMS4S, Resource Planner, Christopher B. Burke Engineering LLC

As a Resource Planner with Christopher B. Burke Engineering LLC, in Indianapolis, Indiana, Heather Buck works with the MS4 Coordinators from several NPDES Phase II communities in Indiana to develop and implement Stormwater Quality Management Programs (SWQMP). These include developing Notice of Intents (NOI), Part A; Part B; Part C; Illicit Discharge Detection and Elimination (IDDE) Plans; Site Inspection Training; Individual MCM Training; Program Compliance Audits; and MS4 Program Coordination and On-call Support.
Myth Busters: Overcoming Barriers to Green Infrastructure

Monday, August 22, 2016
8:00 AM – 4:00 PM
0.5 Continuing Education Unit
Registration Fee: $250

TARGET AUDIENCE
This workshop is intended for municipal stormwater managers who want to integrate green infrastructure into their municipal operations but need help building support and getting buy-in for these practices from elected officials, decision-makers, other municipal staff, and project partners.

COURSE DESCRIPTION
Despite the many well-documented benefits of green infrastructure, common barriers have prevented their widespread acceptance and implementation. These include: technical, regulatory, financial, and institutional barriers.

1. Technical barriers—such as design criteria and hydrologic modeling standards that may be adverse to green infrastructure, performance data, long-term maintenance requirements, site suitability, and climate—can all impede the implementation of green infrastructure practices. Green infrastructure challenges our current thinking about managing stormwater. The shift from conventional stormwater management of conveying stormwater as quickly as possible off the site, to green infrastructure practices that manage stormwater at the source and minimizing runoff, requires a different approach to site design, construction, and long-term maintenance.

2. Local, state, and federal rules and regulations can create barriers to the implementation of green infrastructure. Something as simple as a requirement for continuous curb along a street or in a parking lot will require the developer to obtain a variance to use green infrastructure practices, as well as the uncertainty of long-term maintenance of green infrastructure practices, especially for those on private property. Legal and regulatory support is necessary for launching green infrastructure strategies and ensuring projects are sustainable over time and are protected against future liabilities.

3. Investing in green infrastructure costs money and often requires innovative solutions, and most funding programs and resources are geared toward conventional development and stormwater management practices. Green infrastructure can be cost effective, because it can meet multiple project objectives. For example, rain gardens store and treat stormwater, and also provide beautification and green space in an otherwise very hardscaped urban setting. In many cases, green infrastructure solutions are less costly than conventional infrastructure and development practices. Financial resources and incentives need to be in place to promote the implementation of green infrastructure.

4. Community and institutional barriers are our attitudes and opinions about green infrastructure. Lack of knowledge, familiarity, and understanding of green infrastructure, coupled with resistance to change, may be the most difficult barrier to overcome. Successful implementation of green infrastructure requires the support and buy-in from public and private stakeholders.

In this workshop, municipal stormwater managers will learn how to overcome these barriers to green infrastructure to build support and buy-in from elected officials, decision-makers, other municipal staff, and project partners. Workshop facilitators will discuss each barrier and using case studies and hands-on exercises illustrate how to successfully allow, promote, and implement green infrastructure practices into municipal operations.

INSTRUCTORS
Sheila McKinley, Christopher B. Burke Engineering, LLC
Senior Project Manager
115 West Washington Street, Suite 1368
Indianapolis, IN 46204
317-266-8000
smckinley@cbbel-in.com

As a Senior Project Manager at Christopher B. Burke Engineering, Sheila McKinley is responsible for managing stormwater, floodplain, and green infrastructure planning and policy projects throughout Indiana. She has a long-time interest in land use and its influence on water resources. This interest and her collective 20 years of experience have allowed her to develop and apply an integrated and holistic approach to water-quality- and quantity-related projects.

Sheila holds an M.A. in Landscape Architecture degree from the University of Illinois in Urbana-Champaign and a B.A. in Landscape Architecture from the University of Guelph in Ontario, Canada. She is a member of the American Planning Association (APA), American Society of Landscape Architects (ASLA), and the Association of State Floodplain Managers.
Stormwater Quality Modeling with the Stochastic Empirical Dilution Model (SELDM)—An Overview

Presented By: The US Geological Survey and the Federal Highway Administration

Monday, August 22, 2016
8:00 AM – 4:00 PM

0.5 Continuing Education Unit
Registration Fee: $250

This course requires all attendees to have access to a laptop computer with SELDM pre-loaded for use during the course. SELDM is available free to the public at http://webdnamrl.er.usgs.gov/g1/fhwa/SELDM.htm. SELDM has been tested on PCs with Windows XP, Vista, and Windows 7.

COURSE DESCRIPTION

This hands-on, computer-based course will demonstrate how to use SELDM to model highway or urban runoff to evaluate the risks for exceeding water-quality targets for storm flows, event-mean concentrations, storm loads, and annual loads. Simulations can be run with or without stormwater control measures (SCMs) such as swales, ponds, bioretention facilities, or constructed wetlands. A case study will be used to evaluate inputs to the model and outputs from the model.

You will learn to:

• Select pre-loaded precipitation and flow variables by site location and site characteristics
• Specify hydraulic variables by using simple basin properties
• Select existing or input new water-quality statistics
• Input SCM performance statistics for flow reduction, concentration reduction, and hydrograph extension
• Examine model output files

ABOUT SELDM

SELDM is designed to estimate long-term risks of adverse effects of runoff on receiving waters, the potential need for mitigation measures, and the potential effectiveness of such management measures for reducing these risks. The US Geological Survey developed SELDM in cooperation with the Federal Highway Administration to help develop planning-level estimates of event mean concentrations, flows, and loads in stormwater from a site of interest and from an upstream basin. SELDM calculates the dilution of runoff in the receiving waters and the resulting downstream event mean concentrations and annual average lake concentrations to indicate the level of risk of adverse effects caused by runoff concentrations, flows, and loads on receiving waters by storm and by year.

The one-day course will cover:

• An overview of model input theory
• Using the model’s graphical user interface
• Modeling runoff quality and SCM performance in a case study
• Using the model output files

INSTRUCTORS

Gregory E. Granato, US Geological Survey
Gregory Granato is a hydrologist with the USGS New England Science Center. He has been working on highway runoff issues in cooperation with the Federal Highway Administration for about 20 years. He is author of 7 FHWA reports, 11 USGS reports, 11 other publications related to the quality and quantity of highway runoff, as well as the author of SELDM. Gregory is on the International Stormwater BMP Database technical review panel and has been on 4 technical review panels on the effectiveness of stormwater control measures for the National Cooperative Highway Research Program. He has a B.S. in Mechanical Engineering from the University of Hartford and an M.S. in Civil Engineering (Environmental) from the University of Virginia.

Susan C. Jones, Federal Highway Administration
Susan Jones is a Highway Engineer with the FHWA Project Mitigation Team in the Office of Project Development and Environmental Review. Before that she was a Water Resources Specialist with the Virginia DOT. She is on the project steering committee for the International Stormwater BMP Database and has been on two highway runoff quality committees for the National Cooperative Highway Research Program. Susan has a B.S. from the University of Virginia and an M.S. from George Mason University in Civil Engineering (Environmental). She is a Professional Engineer in Virginia.

Pre-Conference/Regular Conference Cancellation Policy: Cancellations prior to July 1, 2016 will be subject to a processing fee of 35%. After July 1, 2016, registration fees will not be refunded, but may be applied to another individual’s registration fees. StormCon must be notified in writing prior to July 1, 2016 of any transferred registration. A completed form with the new attendee’s information must accompany the notification.

Check for updates at stormcon.com
Certified Inspector of Sediment and Erosion Control (CISEC®)

Review Course ($250):
Sunday August 21
8:30 AM – 5:30 PM
Monday August 22
8:30 AM – 5:30 PM
Certification Exam (approval required):
1:00 PM – 5:00 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,
• Demonstrate the ability to inspect installed best management practices and their ongoing 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
DAY 1 8:30 AM – 5:00 PM
Module 1: EPA Rules & Regulations
• Clean Water Act
• NPDES 2012 General Permit
• Evaluating the CGP
• Understanding a SWPPP and the S&E drawings
Module 2: Background of an Inspector
• Definitions
• Erosion, sediment and sedimentation
• Polymers and sedimentation
• A primer on hydrology
• Hydrographs 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

Day 2 8:30 AM – 12:00 PM
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

Day 2 1:00 PM – 5:30 PM
CISEC Certification Examination
Register for the one-and-a-half day Certified Inspector of Sediment and Erosion Control (CISEC) training modules on Sunday and Monday, August 21 and 22, and apply through CISEC Inc. (at www.cisecinc.org) to determine whether you are eligible to take the examination on Monday, August 22. You may register to attend the training modules only without having to take the examination. Also, there is no requirement to take the training modules before sitting for the certifying examination.

Please Note: To take the CISEC certification examination you must have received a letter of approval from the CISEC Inc. See details under “How to Apply for the Examination.” Additional information and the required forms are available at www.cisecinc.org.

WHAT IS CISEC?
If you are an experienced construction site inspector, you can take the next professional step by becoming a CISEC to show your distinction and professionalism in the field.
Any individual registered as a CISEC must be ready to demonstrate:
• Comprehensive knowledge in the principles and practices of sediment and erosion control and their applicability to development of discharge permit documents,
• The necessary skills to observe onsite and offsite conditions that impact the quality of stormwater discharges from active construction sites,
• The ability to inspect installed best management practices and their ongoing maintenance to determine if the mitigation measures will minimize the discharge of sediment and other pollutants from active construction sites, and
• 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.

HOW TO GET CERTIFIED
A CISEC is one who has demonstrated his or her proficiency in observing, inspecting, and reporting on the implementation of stormwater pollution prevention plans by passing the 3.5–4.0 hours certification examination with a score of 75% or better.

Minimum Qualifications
An applicant becoming a CISEC must demonstrate the following background and expertise:

• A complete understanding about sediment and erosion processes, and how the discharge of pollutants associated with construction activities may impact the environment;
• The ability to meet EPA’s requirements for a qualified inspector and an understanding of federal regulations associated with the NPDES discharge permit;
• Ability to read and understand construction site stormwater pollution prevention plans (SWPPPs), and able to fully comprehend accompanying sediment and erosion control drawings;
• Construction site experience on inspecting the installation and maintenance of BMPs, identifying waste management problems, and addressing impacts by non-stormwater discharges; and
• The ability to communicate and write accurate inspection reports. Applicants are expected to have inspection skills in one or more of the following types of construction projects: large land development, linear (e.g., roadway, pipeline), vertical (e.g., town homes, single-family residence), or big box (e.g., commercial buildings).

An applicant’s skills will be determined through testing and training provided by the CISEC program, which is designed for achieving proficiency in the process of inspecting and reporting on construction site sediment and erosion control practices.

HOW TO REGISTER FOR THE TRAINING MODULES—TWO-STEP REGISTRATION PROCESS
Anyone is eligible to attend the training modules on Sunday and Monday, August 21 and 22. However, you must complete the StormCon registration form and mail or fax it to us, or register online at www.StormCon.com to reserve your space.

Your registration fee for the training modules includes a manual with essential information and material for inspectors. Whether you’re taking the examination or are considering becoming certified in the future, this is a great opportunity to review the principles of site inspection and erosion and sediment control.

Please Note: CISEC Inc. will NOT process any StormCon registration fees for the training modules. You must register and pay to StormCon ($250) and all eligibility fees are paid to CISEC for the exam.

HOW TO APPLY FOR THE EXAMINATION
To be eligible to sit for the CISEC examination on Monday, August 22, you must receive approval from CISEC Inc. This requires submittal of an application and paying the $150 (if you are registered for the training modules) or $350 (if you are not taking the training modules) processing fee to CISEC Inc. StormCon will NOT process any processing fees for the certification examination.

For a CISEC examination application form and fee information, please visit www.cisecinc.org. To download an application PDF form, visit www.cisecinc.org/id1.html, or the “Training and Exam Date” tab as found on the website. You are not eligible to take the certification test unless you have received a confirmation letter from the CISEC Inc. prior to the examination date.

CISEC Examination Application Deadline
The CISEC review committee needs at least 30 days to evaluate your information and to determine your eligibility to sit for the examination. Your materials must be received by CISEC Inc. no later than July 19, 2016.

CISEC Contact Information
Phone: 720-235-2783
Fax: 303-841-6386
E-mail: cisec_inc@yahoo.com
Web: www.cisecinc.org
Mailing Address: P.O. Box 188, Parker, CO 80134

WHO SPONSORS CISEC CERTIFICATION?
The Certified Inspector in Sediment and Erosion Control program was launched at StormCon in 2005 and is sponsored by CISEC Inc. and its registrants. Today, CISECs are demonstrating throughout the United States their inspection skills and expertise by fulfilling requirements set forth in the Construction General Permit as developed by EPA.

The State of California Water Resources Control Board acknowledged that a CISEC is a “Qualified SWPPP Practitioner” able to conduct construction site sediment and erosion control inspections throughout the State of California. Numerous states, municipalities, developers, builders, and private contractors are emulating the State Water Board policy and recognizing that the CISEC program is setting the nationwide industry standard for certifying construction site sediment and erosion control inspectors.

Pre-Conference/Regular Conference Cancellation Policy: Cancellations prior to July 1, 2016, will be subject to a processing fee of 35%. After July 1, 2016, registration fees will not be refunded, but may be applied to another individual’s registration fees. StormCon must be notified in writing prior to July 1, 2016 of any transferred registration. A completed form with the new attendee’s information must accompany the notification.

Check for updates at stormcon.com
Exhibitors

If you’ve exhibited at regional and national events that target the general water, engineering, pollution, government, or construction fields, you’ll be amazed at the difference that comes from exhibiting at a highly focused event designed specifically for the surface water-quality professionals you target, many of whom attend with the intention of shopping for products and technology.

Exhibit Hall (one badge, two shows)

All StormCon and WasteCon attendees have access to the “shared” exhibit hall to discover the latest technologies and solutions, up close and personal, from the market-leading companies. The StormCon/WasteCon colocation will divide one large exhibition hall and will cover a broad range of products and services, from the basics to the most innovative and cutting-edge advances in the stormwater and waste management sectors.

- Easily accessible—one location, two major exhibitions
- More than 195 StormCon exhibitor booths (combined number of booths = 740+)
- Break time snacks and coffee
- Selfie Photo Contest and prizes

And, don’t miss the Welcome Reception on Monday, August 22, at 7:00 PM. If you’ve arrived by Monday evening, take full advantage of this very casual networking opportunity and enjoy fine food and drink, all while getting a first look into the shared exhibit space.

Contact Scott Nania, program director, at 805-679-7636 or by e-mail at stormcon@forester.net for additional information.
Conference Course Schedule

Tuesday, August 23

8:00 AM – 9:00 AM
- BMP Case Studies ........................................... 106
- Green Infrastructure ........................................ 103
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Water-Quality Monitoring .................................. 101
- Stormwater Management for Solid Waste Facilities .. 102

10:00 AM – 11:30 AM
- BMP Case Studies ........................................... 106
- Green Infrastructure ........................................ 103
- Green Infrastructure II .................................... 102
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Advanced Research Topics .................................. 101

1:30 PM – 3:00 PM
- BMP Case Studies ........................................... 106
- Green Infrastructure ........................................ 103
- Green Infrastructure II .................................... 102
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Industrial Stormwater Management ..................... 101

3:30 PM – 5:00 PM
- BMP Case Studies ........................................... 106
- Green Infrastructure ........................................ 103
- Green Infrastructure II .................................... 102
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Water-Quality Monitoring .................................. 101

Wednesday, August 24

8:00 AM – 9:00 AM
- BMP Case Studies ........................................... 106
- Green Infrastructure ........................................ 103
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Industrial Stormwater Management ..................... 101
- Stormwater Management for Solid Waste Facilities .. 102

9:30 AM – 11:00 AM
- Case Studies .................................................. 106
- Green Infrastructure ........................................ 103
- Green Infrastructure II .................................... 102
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Stormwater Program Management for Solid Waste Facilities .. 101

1:30 PM – 3:00 PM
- Case Studies .................................................. 106
- Green Infrastructure ........................................ 103
- Green Infrastructure II .................................... 102
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Advanced Research Topics .................................. 101

3:30 PM – 5:00 PM
- BMP Case Studies ........................................... 106
- Green Infrastructure ........................................ 103
- Green Infrastructure II .................................... 102
- Stormwater Program Management I .................. 104
- Stormwater Program Management II .................. 105
- Water-Quality Monitoring .................................. 101

Thursday, August 25

8:00 AM – 9:30 AM
- Green Infrastructure ........................................ 103
- Stormwater Program Management ..................... 104
- Advanced Research Topics .................................. 102

10:00 AM – 11:30 AM
- Green Infrastructure ........................................ 103
- Stormwater Program Management ..................... 104
- Industrial Stormwater Management .................... 102

Half-Day Sessions: 8:00 AM – 11:30 AM
- Apocalyptic Erosion Control: Sustainable Soil Strategies Under El Niño and Drought Conditions ........ 106
- Save It for a Rainy Day: Stormwater Program Planning and Funding ........................................... 105

Conference Program Tracks

- B BMP Case Studies
  Examples of structural and nonstructural best management practices to achieve water-quality goals

- G Green Infrastructure
  Low impact development (LID) techniques as well as smart growth and other green infrastructure practices

- P Stormwater Program Management
  Funding, public education and outreach, staffing, regulatory compliance, and other elements of managing a successful program

- W Water-Quality Monitoring
  Water-quality assessment, monitoring and sampling techniques, and modeling practices

- D Industrial Stormwater Management
  Industrial stormwater management and permitting, focusing on publicly and privately owned facilities covered by industrial stormwater permits or EPA’s stormwater multi-sector general permit

- R Stormwater Management for Solid Waste Facilities
  Stormwater management for all phases of solid waste operations, from collection to processing and transfer stations to landfills

- A Advanced Research Topics
  Comparing BMP performance, evaluating testing protocols, and trends in stormwater research

Check for updates at stormcon.com
Tuesday, August 23
8:00 AM – 9:00 AM

BMP CASE STUDIES
Room 106

B11 8:00 AM – 8:30 AM
McDaniel Branch Urban Stream Restoration: One Project, Many Stories
Andrew Walter, City of Atlanta, GA
Anwer Ahmed, Arcadis, Kennesaw, GA

B12 8:30 AM – 9:00 AM
Additional Benefits From Using Green Infrastructure for CSO Abatement: Water and Energy Savings at the Onondaga County War Memorial and Rosamond Gifford Zoo
Zachary Monge, CH2M Hill, Syracuse, NY

GREEN INFRASTRUCTURE
Room 103

G11 8:00 AM – 8:30 AM
Green Infrastructure Design to Meet Plant Needs
Joe Eigel, Lochmueller Group, Jeffersonville, IN

G12 8:30 AM – 9:00 AM
Life Cycle Assessment of Bioretention Systems for Nutrient Management
Xiaofan Xu, University of South Florida, Tampa, FL

STORMWATER PROGRAM MANAGEMENT I
Room 104

P11 8:00 AM – 8:30 AM
Paying for Stormwater Controls and Program Management
Brian Boyer, Kieser and Associates, Kalamazoo, MI

P12 8:30 AM – 9:00 AM
Stormwater User Fee Adjustment Hurdles and Victories
Michael Massonne, MWH Global, Indianapolis, IN

STORMWATER PROGRAM MANAGEMENT II
Room 105

P13 8:00 AM – 8:30 AM
Orange County Surface Water Quality Infrastructure Report Card
Daniel Apt, Michael Baker Intl., Irvine, CA
Grant Sharp, County of Orange, Orange, CA

P14 8:30 AM – 9:00 AM
Using GIS to Satisfy Your NPDES Minimum Control Measure Requirements
Tom Maggard, City of Greenwood, IN
Randy Weathers, City of Greenwood, IN
Chris Jones, City of Greenwood, IN

WATER-QUALITY MONITORING
Room 101

Q11 8:00 AM – 8:30 AM
Automated Baseflow/Stormflow Separation and Load Calculation for Continuous Flow Data and Water-Quality Samples in Urban Storm Sewers
Britta Suppes, Capitol Region Watershed District, St. Paul, MN
Bob Fossum, Capitol Region Watershed District, St. Paul, MN
Joe Sellner, Capitol Region Watershed District, St. Paul, MN

Q12 8:30 AM – 9:00 AM
The Value of Integrated Modeling for Predicting Bacteria and Dissolved Oxygen in Urban Streams
Chris Ranck, Arcadis, Indianapolis, IN
Derek Sutton, Citizens Energy Group, Indianapolis, IN

STORMWATER MANAGEMENT for SOLID WASTE FACILITIES
Room 102

W11 8:00 AM – 9:00 AM
Keep Your Butts Out of the Water: Cigarette Pollution and the Waters of America
Ken Beckstead, Butts Only Box, Oceanside, CA
(This is an hour-long presentation.)

TUES 10:00 AM – 11:30 AM

BMP CASE STUDIES
Room 106

B22 10:00 AM – 10:30 AM
Irrigate, Infiltrate, Automate: Stormwater Reuse at Upper Villa Park
Forrest Kelley, Capitol Region Watershed District, Saint Paul, MN

B23 10:30 AM – 11:00 AM
Improved Stormwater Management BMPs and Flood Preparedness for 2016 El Niño Storms
Denise Yaffe, Southern California Edison, Rosemead, CA
Julia Lakes, Southern California Edison, Rosemead, CA
Chijioke Akunyili, Southern California Edison, Rosemead, CA
Randy Bick, SRJR Consulting, Upland, CA

Q21 11:00 AM – 11:30 AM
Issues With Clay? No Way! Innovative LID BMP Design Involving Impermeable Soils
Seshadri Iyer, AECOM, Virginia Beach, VA
**GREEN INFRASTRUCTURE I**
Room 103

G22......................... 10:00 AM – 10:30 AM
Green Roofs As a Stormwater Policy Tool: Lessons From Washington DC, New York, and Toronto
Steven Peck, Green Roofs for Healthy Cities, Toronto, ON
Blaine Stand, Green Roofs for Healthy Cities, Toronto, ON

G23......................... 10:30 AM – 11:00 AM
Keep It on the Roof: How to Design Green Roofs for Maximum Stormwater Performance
David Yocca, Conservation Design Forum, Lombard, IL
Tom Price, Conservation Design Forum, Lombard, IL
Rohan Lilauwala, Green Roofs for Healthy Cities, Toronto, ON

G21......................... 11:00 AM – 11:30 AM
Stormwater Management Plus: An Economic Analysis of the Co-Benefits of Green Roofs As a Stormwater Management Tool
Kirstin Weeks, Arup, San Francisco, CA
Steven Peck, Green Roofs for Healthy Cities, Toronto, ON

**GREEN INFRASTRUCTURE II**
Room 102

G25......................... 10:00 AM – 10:30 AM
Refining Maintenance Techniques for Interlocking Concrete Pavers
Amir Ehsaei, AECOM, San Francisco, CA

G26......................... 10:30 AM – 11:00 AM
Designing and Constructing Green Roadways in North Texas: Overcoming Long-Term Maintenance Challenges
Anthony Kendrick, Construction EcoServices, Denton, TX

G24......................... 11:00 AM – 11:30 AM
Green Infrastructure Maintenance: Lessons Learned for ROW Rain Gardens
Susan Bryan, Washtenaw County Water Resources Commissioner’s Office, Ann Arbor, MI

**STORMWATER PROGRAM MANAGEMENT I**
Room 104

P22......................... 10:00 AM – 10:30 AM
Hybrid IDDE and Inflow Removal in Cambridge’s Combined Sewers
Emerson Olander, MWH Global, Boston, MA
Zach Halstead, MWH Global, Boston, MA

P23......................... 10:30 AM – 11:00 AM
Chatsworth Park South Remedial Action Plan Implementation
Jimmy Medelin, Kimley-Horn, Orange, CA
Brian Jacobs, AECOM, Los Angeles, CA

P21......................... 11:00 AM – 11:30 AM
Establishing the Basis for Stormwater Pollutant Trading: The San Diego Water Quality Equivalency Process
Richard Haimann, HDR, Huntington Beach, CA

**STORMWATER PROGRAM MANAGEMENT II**
Room 105

P25......................... 10:00 AM – 10:30 AM
Water-Quality Management on Mega Construction Projects
Nathan Holloway, Clear Water Services, Lynnwood, WA

P26......................... 10:30 AM – 11:00 AM
Communication: The Most Important (and Overlooked) Construction-Site BMP, Part 2
Jerald S. Fitfield, HydroDynamics Inc., Parker, CO

P24......................... 11:00 AM – 11:30 AM
Complex SWPPPs: How to Take Control Before Your Project Starts
Meghan Litsy, WSB and Associates, Golden Valley, MN
Jennifer Hildebrand, WSB and Associates, Golden Valley, MN

**ADVANCED RESEARCH TOPICS**
Room 101

R21......................... 10:00 AM – 10:30 AM
Accelerated Testing to Validate the Design of Permeable Pavements for Heavy Loads
David Hein, Applied Research Associates, Toronto, ON

R23......................... 10:30 AM – 11:00 AM
Assessment of an Innovative Technology to Reduce Sediment and Improve Water Quality in a Stormwater Pond
David Martin, WCI Environmental Solutions, Ottawa, ON
Andrew Laursen, Ryerson University, Toronto, ON
Saad Ulhaq, WCI Environmental Solutions, Ottawa, ON
Joseph Kennedy, WCI Environmental Solutions, Ottawa, ON

R24......................... 11:00 AM – 11:30 AM
Ten Emerging Stormwater Best Management Practices
Andrew Reese, Amec Foster Wheeler, Nashville, TN

**BMP CASE STUDIES**
Room 106

B31......................... 1:30 PM – 2:00 PM
Flood Impact Reduction and Stream Bank Repair Along Spy Run Creek, Fort Wayne, IN
Jonathan Moore, City of Fort Wayne, IN
Keith Buck, Christopher B Burke Engineering, Indianapolis, IN

B32......................... 2:00 PM – 2:30 PM
Terraced Reforestation of Interstate Right of Way: Green Infrastructure on Sloped Topography
Amber Porter, Strand Associates, Columbus, IN
Chris Rust, Strand Associates, Cincinnati, OH

---

This is a preliminary program and is subject to change.
**Conference Courses**

**STORMWATER PROGRAM MANAGEMENT I**
Room 104

**P31** 1:30 pm – 2:00 pm
Tracking and Forecasting the Cost-Effectiveness of Stormwater Controls to Prioritize Water-Quality Improvements
Matthew Jones, Hazen and Sawyer, Raleigh, NC

**P32** 2:00 pm – 2:30 pm
Data Tracking, Stormwater BMPs Implementation and Effectiveness
Neal Shapiro, City of Santa Monica, CA

**P33** 2:30 pm – 3:00 pm
How Ecology is Reaching Users Through an Interactive Online Stormwater Management Manual for Western Washington
Amanda Haye, Washington State Dept. of Ecology, Olympia, WA

**STORMWATER PROGRAM MANAGEMENT II**
Room 105

**P34** 1:30 pm – 2:00 pm
A Regulatory Strategy to Meet MS4 Permit Requirements in an Ultra-Urban Area
Hamid Karimi, District of Columbia Dept. of Energy and Environment, Washington, DC

**P35** 2:00 pm – 2:30 pm
A Decade of Detailed CGP Performance Measuring: What Works?
Bill Robinson, Stormwater Risk Management LLC, Denver, CO

**P36** 2:30 pm – 3:00 pm
Private Stormwater Maintenance on a Grand Scale
Toni McCrory, Walmart Stores, Bentonville, AR
Ron Miller, Walmart Stores, Bentonville, AR
Tammy Welch, Walmart Stores, Bentonville, AR

**INDUSTRIAL STORMWATER MANAGEMENT**
Room 101

**D31** 1:30 pm – 2:00 pm
Stormwater Issues at the Los Alamos National Laboratory: Addressing Historically Contaminated Sites in a Unique Environment
Bruce Yurdin, New Mexico Environment Dept., Santa Fe, NM
Sarah Holcomb, New Mexico Environment Dept., Santa Fe, NM

**GREEN INFRASTRUCTURE I**
Room 103

**G31** 1:30 pm – 2:00 pm
Give Me the Numbers: How Trees and Urban Forest Systems Really Affect Stormwater Runoff
Aarin Teague, San Antonio River Authority, San Antonio, TX
Eric Kuehler, USDA Forest Service, Athens, GA

**G32** 2:00 pm – 2:30 pm
Using Urban Trees for Stormwater Management: The State of Science and Operations and Management
Peter MacDonagh, The Kestrel Design Group, Edina, MN

**G33** 2:30 pm – 3:00 pm
The Impact of Trees: How Louisville MSD's Investment in Urban Reforestation Mitigates Stormwater and Combined Sewer Overflows
Jordan Basham, Louisville Metropolitan Sewer District, Louisville, KY

**GREEN INFRASTRUCTURE II**
Room 102

**G34** 1:30 pm – 2:00 pm
Creativity Before Capital: Holistic Approach to Achieve CSO LTCP Compliance and Mitigate Localized Flooding
Praveen Vankayala, Greeley and Hansen, Indianapolis, IN

**G35** 2:00 pm – 2:30 pm
We Choose Green Infrastructure! City of Peoria's Innovative Strategy Proposing GI As the Primary CSO Solution
Jean Ramsey, Amec Foster Wheeler, Indianapolis, IN
Jane Gerdes, City of Peoria, IL

**G36** 2:30 pm – 3:00 pm
Design and Construction of Centralized Green Infrastructure for CSO Control
Jessi Veach, CDM Smith, Kansas City, MO
Adam Wilmes, City of Omaha, NE

**BMP CASE STUDIES**
Room 106

**B41** 3:30 pm – 4:00 pm
Stormwater BMPs: What I've Learned in the Field
Steven Polk, Stormwater STL LLC, St. Louis, MO

**B42** 4:00 pm – 4:30 pm
Is Anyone Listening to You?
Jill Hoffmann, White River Alliance, Indianapolis, IN
Tim Stottlemeyer, City of Noblesville, IN

**GREEN INFRASTRUCTURE I**
Room 103

**G41** 3:30 pm – 4:00 pm
How Should You Be Designing Your Permeable Pavements?
New ASCE Standard
David Hein, Applied Research Associates, Toronto, ON

**G42** 4:00 pm – 4:30 pm
Rapid Restoration of Infiltration Capacities in Clogged Permeable Interlocking Concrete Pavers: Proof of Concepts
Karen Finney, Computational Hydraulics International, Guelph, ON
G43 4:30 PM – 5:00 PM
Pollutant Load Reduction Potential of Permeable Concrete vs. Permeable Pavers in South Texas
Augusto Sanchez-Gonzalez, Texas A&M University–Kingsville, Kingsville, TX
Kim Jones, Texas A&M University – Kingsville, Kingsville, TX
Javier Guerrero, Texas A&M University – Kingsville, Kingsville, TX
Ahmed Mahmoud, Texas A&M University – Kingsville, Kingsville, TX

P43 4:30 PM – 5:00 PM
Achieving Stormwater Goals As a Non-Regulatory Agency
Brent Eysenbach, Cuyahoga Soil and Water Conservation District, Valley View, OH

P44 3:30 PM – 4:00 PM
Constructing Asset Management of Privately Maintained Stormwater Controls
Shekar Sharma, Hazen and Sawyer, Fairfax, VA
Karlee Copeland, Fairfax County Maintenance and Stormwater Management Division, Fairfax, VA

P45 4:00 PM – 4:30 PM
Applying Asset Management to a Regional Stormwater Management Program
George Remias, Northeast Ohio Regional Sewer District, Cuyahoga Heights, OH

P46 4:30 PM – 5:00 PM
Key to Adaptive Stormwater Program Management: A Unique Prioritization Scheme
Erica Keyser, Tetra Tech, Golden, CO
Vicki Kalkirtz, City of San Diego, CA

Q41 3:30 PM – 4:00 PM
Constructed Wetland to Reduce Nutrients From Runoff in Croplands: Implications for Urban Stormwater
David Buckley, Christopher B. Burke Engineering, Rosemont, IL
Mahsa Izadmehr, University of Illinois, Chicago, IL

Q42 4:00 PM – 4:30 PM
Cost-Effective Tools for MS4 Permit Compliance
Dewayne Smith, Trimble Navigation Limited, Auburn, AL

Q43 4:30 PM – 5:00 PM
Elliott Bay Seawall
Nathan Holloway, Clear Water Services, Lynnwood, WA

Wednesday, August 24
8:00 AM – 9:00 AM

BMP CASE STUDIES
Room 106
B51 8:00 AM – 9:00 AM
Four Years Later: Stormwater BMP in Urban Retrofit—The Georgia Street Improvements Project
Cassie Reiter, Crawford, Murphy and Tilly, Indianapolis, IN
Rachel Wilson, Indianapolis Dept. of Public Works, Indianapolis, IN
(This session involves a field trip to an installation just outside the convention center and is scheduled for a full hour.)

GREEN INFRASTRUCTURE
Room 103
G51 8:00 AM – 8:30 AM
Does Large-Scale Green Infrastructure Meet Expectations? Lessons From the Cincinnati Zoo
Nancy Ellwood, CDM Smith, Cincinnati, OH
Mark Fisher, Cincinnati Zoo and Botanical Gardens, Cincinnati, OH

G52 8:30 AM – 9:00 AM
Stormwater Capture and Reuse: Passive Irrigation for Pervious Grass Parking
Christa Petzke, D2 Land and Water Resource, Indianapolis, IN
Jim Blazek, D2 Land and Water Resource, Indianapolis, IN

GREEN INFRASTRUCTURE II
Room 102
G44 3:30 PM – 4:00 PM
The Community-Based Public-Private Partnership Approach for Green Stormwater Infrastructure Investment
Seth Brown, Storm and Stream Solutions LLC, Springfield, VA

G45 4:00 PM – 4:30 PM
Pathway to Net Positive Urban Watershed: The SW Ecodistrict’s 10th Street Stormwater Infrastructure Study
Charles Kelley, ZGF Architects LLC, Portland, OR
Edward Clark, ZGF Architects LLC, Seattle, WA

G46 4:30 PM – 5:00 PM
Removing Barriers to Low Impact Development in Municipal Codes in California: Part 3
Daniel Apt, Michael Baker International, Irvine, CA

STORMWATER PROGRAM MANAGEMENT I
Room 104
P41 3:30 PM – 4:00 PM
The National Municipal Stormwater Alliance: Its Formation, Structure, and Work on Two New Federal Water Rules
Randy Neprash, National Municipal Stormwater Alliance, Minneapolis & St. Paul, MN

P42 4:00 PM – 4:30 PM
Washington State’s Example for Meeting EPA’s 2016 Small MS4 Rulemaking
Chris Montague-Breakwell, Washington State Dept. of Ecology, Olympia, WA

P43 4:30 PM – 5:00 PM
Achieving Stormwater Goals As a Non-Regulatory Agency
Brent Eysenbach, Cuyahoga Soil and Water Conservation District, Valley View, OH

STORMWATER PROGRAM MANAGEMENT II
Room 105
P44 3:30 PM – 4:00 PM
Constructing Asset Management of Privately Maintained Stormwater Controls
Shekar Sharma, Hazen and Sawyer, Fairfax, VA
Karlee Copeland, Fairfax County Maintenance and Stormwater Management Division, Fairfax, VA

P45 4:00 PM – 4:30 PM
Applying Asset Management to a Regional Stormwater Management Program
George Remias, Northeast Ohio Regional Sewer District, Cuyahoga Heights, OH

P46 4:30 PM – 5:00 PM
Key to Adaptive Stormwater Program Management: A Unique Prioritization Scheme
Erica Keyser, Tetra Tech, Golden, CO
Vicki Kalkirtz, City of San Diego, CA

WATER-QUALITY MONITORING
Room 101
Q41 3:30 PM – 4:00 PM
Constructed Wetland to Reduce Nutrients From Runoff in Croplands: Implications for Urban Stormwater
David Buckley, Christopher B. Burke Engineering, Rosemont, IL
Mahsa Izadmehr, University of Illinois, Chicago, IL

Q42 4:00 PM – 4:30 PM
Cost-Effective Tools for MS4 Permit Compliance
Dewayne Smith, Trimble Navigation Limited, Auburn, AL

Q43 4:30 PM – 5:00 PM
Elliott Bay Seawall
Nathan Holloway, Clear Water Services, Lynnwood, WA

STORMWATER PROGRAM MANAGEMENT I
Room 104
P51 8:00 AM – 8:30 AM
Above the Coal Mines: The Evolution of Mining Reclamation in the United States
Michael Harding, Geosyntec Consultants, San Diego, CA

P52 8:30 AM – 9:00 AM
Rainwater Collection as Stormwater Management
E W Bob Boulware, Design-Aire Engineering and Rainwater Catchment Systems Association, Indianapolis, IN
Vessela Monta, International Rain Harvesting Alliance, Geneva, Switzerland

Check for updates at stormcon.com
### STORMWATER PROGRAM MANAGEMENT II
Room 105

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| P53         | 8:00 AM – 8:30 AM | Can Everyone Win? Perhaps the First Step Is to Develop a Defensible, Sustainable, and Resilient Stormwater Master Plan for Your Community | Jean Ramsey, Arne Foster Wheeler, Indianapolis, IN  
Todd Stevenson, Monroe County, Bloomington, IN |
| P54         | 8:30 AM – 9:00 AM | Washington State’s Watershed Planning Approach                        | Dan Ganiepy, Washington State Dept. of Ecology, Olympia, WA |

### INDUSTRIAL STORMWATER MANAGEMENT
Room 101

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D51</td>
<td>8:00 AM – 8:30 AM</td>
<td>Looking Under the Rug: Developing and Implementing Stormwater Pollution Prevention Plans for Municipal Facilities to Satisfy Good Housekeeping/Pollution Prevention Permit Requirements</td>
<td>Jordan Basham, Louisville Metropolitan Sewer District, Louisville, KY</td>
</tr>
<tr>
<td>D52</td>
<td>8:30 AM – 9:00 AM</td>
<td>Onsite Industrial Solutions for the Stormwater Headache</td>
<td>Jean-Louis Kindler, OriginClear, Los Angeles, CA</td>
</tr>
</tbody>
</table>

### STORMWATER MANAGEMENT for SOLID WASTE FACILITIES
Room 102

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W51</td>
<td>8:00 AM – 8:30 AM</td>
<td>Building the Case Studies for Zero Discharge in a Zero Waste World</td>
<td>Paul Wisniewski, SCS Engineers, Santa Rosa, CA</td>
</tr>
</tbody>
</table>
| W52         | 8:30 AM – 9:00 AM | Current Stormwater Management Requirements for Solid Waste Management Facilities and Implications of Potential More-Strident Future Regulations | Kristen Belcredi, Keramida Inc., Indianapolis, IN  
Sara Guss, Keramida Inc., Indianapolis, IN |

### BMP CASE STUDIES
Room 106

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B61</td>
<td>9:30 AM – 10:00 AM</td>
<td>Urban Stormwater Pond Retrofit for the Crawford Farms Subdivision in Central Ohio: Designing Within Site Limitations to Meet Watershed Goals</td>
<td>William Strachan, ATC Group Services LLC, Cincinnati, OH</td>
</tr>
<tr>
<td>B63</td>
<td>10:00 AM – 10:30 AM</td>
<td>Subsurface Gravity-Based Stormwater Treatment for a 90-Acre Container Terminal</td>
<td>Ben Fuentes, Kennedy/Jenks Consultants, Federal Way, WA</td>
</tr>
</tbody>
</table>
| B62         | 10:30 AM – 11:00 AM | Construction and Stormwater Management in Karst Topography | Ronnie Boehm, Indiana Dept. of Environmental Management, Indianapolis, IN  
Sue Bock, Indiana Dept. of Environmental Management, Indianapolis, IN |

### GREEN INFRASTRUCTURE I
Room 103

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| G61         | 9:30 AM – 10:00 AM | Park Matters: Retrofitting Green Infrastructure Into New York City’s Park System | Robb Lukes, New York City Dept. of Parks and Recreation, Flushing, NY  
Nicholas Cohen, New York City Dept. of Parks and Recreation, Flushing, NY  
Jeff Keiter, New York City Dept. of Parks and Recreation, Flushing, NY |
| G62         | 10:00 AM – 10:30 AM | Taking It to the Streets: A Green Infrastructure Retrofit Model for Community Relationship Building | John Hazlett, Williams Creek Consulting, Indianapolis, IN  
Sarah Evans, Williams Creek Consulting, Indianapolis, IN |
| G63         | 10:30 AM – 11:00 AM | “If I Had a Billion Dollars”: How the Green Infrastructure Design Charrette Program Can Be Used to Reimagine Your Community and Estimate the Aggregate Costs and Benefits of Green Infrastructure | Steven Peck, Green Roofs for Healthy Cities, Toronto, ON |

### GREEN INFRASTRUCTURE II
Room 102

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| G64         | 9:30 AM – 10:00 AM | The Evolution of Infiltration: Three Indianapolis Case Studies | Chris Kaufman, Beam, Longest, and Neff, Indianapolis, IN  
Jeff DeWitt, Lochmueller Group, Indianapolis, IN |
| G66         | 10:30 AM – 11:00 AM | Use of Super-Sized Green Infrastructure to Mitigate Urban Flooding | Mark Van Auken, Arcadis, Akron, OH  
Richard Fisher, Metropolitan Water Reclamation District of Greater Chicago, Chicago, IL  
Laura Lord, Hazen and Sawyer, Raleigh, NC |

### STORMWATER PROGRAM MANAGEMENT I
Room 104

<table>
<thead>
<tr>
<th>Session Code</th>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| P61         | 9:30 AM – 10:00 AM | Louisville MSD’s Strategy and Approach to Delist Impaired Streams | Erin Wagoner, Louisville Metropolitan Sewer District, Louisville, KY  
Wes Sydnor, Louisville Metropolitan Sewer District, Louisville, KY |
| P62         | 10:00 AM – 10:30 AM | Historic Loss of Flood Plains in the Upper Turtle Creek Watershed | Joseph Dietrick, The Markosky Engineering Group, Ligonier, PA |
| P63         | 10:30 AM – 11:00 AM | Pennsylvania Jurisdictions Respond to Sediment TMDL by Collaborating on In-Stream Erosion Control | John Aldrich, CDM Smith, Cleveland, OH  
Claire Maulhardt, Capital Region Water, Harrisburg, PA |
**STORMWATER PROGRAM MANAGEMENT II**  
Room 105

**P64**........................................ 9:30 AM – 10:00 AM  
Oregon’s Stormwater Integration Group  
Sara Christensen, Oregon Dept. of Environmental Quality, Portland, OR

**P65**........................................ 10:00 AM – 10:30 AM  
Tippecanoe County, IN, Partnership: How an MS4 Partnership Saves Money and Resources  
Lori Gates, Christopher B. Burke Engineering, Indianapolis, IN  
Zachariah Beasley, Tippecanoe County, Lafayette, IN

**TUES 1:30 PM – 2:00 PM**

**GREEN INFRASTRUCTURE I**  
Room 103

**G71**........................................ 1:30 PM – 2:00 PM  
Low Impact Development Monitoring, Tracking, and Assessment: Lessons Learned in California and a Path Forward  
Daniel Apt, Michael Baker International, Irvine, CA

**G72**........................................ 2:00 PM – 2:30 PM  
Washington State’s LID Code Update: Making LID the Preferred and Commonly Used Approach to Development  
Chris Montague-Breakwell, Washington State Dept. of Ecology, Olympia, WA  
Rian Sallee, Washington State Dept. of Ecology, Olympia, WA

**G73**........................................ 2:30 PM – 3:00 PM  
Toward a Greener Indiana: Implementing Statewide Green Infrastructure Training  
Sheila McKinley, Christopher B. Burke Engineering, Indianapolis, IN  
Aletha Dunston, Indiana Office of Community and Rural Affairs, Indianapolis, IN

**STORMWATER PROGRAM MANAGEMENT I**  
Room 104

**P71**........................................ 1:30 PM – 2:00 PM  
Development of NYC Stormwater Management Program: Challenges and Opportunities  
Pinar Balci, NYC Dept. of Environmental Protection, Flushing, NY

**P72**........................................ 2:00 PM – 2:30 PM  
MCAS Miramar Stormwater Program for MS4 and Industrial Stormwater General Permits  
Ryan Gebman, Amec Foster Wheeler, San Diego, CA  
Diana Quinn, Amec Foster Wheeler, San Diego, CA  
Herb Baylon, Marine Corps Air Station Miramar, San Diego, CA

**P73**........................................ 2:30 PM – 3:00 PM  
Overcoming the Challenges of TMDL Planning in a Small Urban MS4: Coatesville, PA, Case Study  
Beth Uhler, Cedarville Engineering Group LLC, North Coventry, PA

**WED 1:30 PM – 3:00 PM**

**BMP CASE STUDIES**  
Room 106

**B71**........................................ 1:30 PM – 2:00 PM  
Lessons Learned in the Design, Construction, and Monitoring of a Large-Scale Regenerative Stormwater Conveyance  
Kyle Hall, City of Charlotte, NC

**B72**........................................ 2:00 PM – 2:30 PM  
Five Fundamentals for Successful Restoration of Disturbed Lands  
Marc S. Theisen, Profile Products, Signal Mountain, NY

**GREEN INFRASTRUCTURE II**  
Room 102

**G74**........................................ 1:30 PM – 2:00 PM  
Stop Cutting the Ribbon and Walking Away: How the Added Value of Youth Employment and Green Infrastructure Leverage Municipal Utility Projects  
Ethan Olson, Keep Indianapolis Beautiful, Indianapolis, IN

**G75**........................................ 2:00 PM – 2:30 PM  
Creative Financing of Green Infrastructure: Part 2  
Laurie Hawks, Brown and Caldwell, Atlanta GA  
Alice Champagne, City of Roswell, GA

**G76**........................................ 2:30 PM – 3:00 PM  
Riversmart Survey Results  
Andrew Oetman, DC Dept. of Energy and Environment, Washington, DC

**STORMWATER PROGRAM MANAGEMENT II**  
Room 105

**P74**........................................ 1:30 PM – 2:00 PM  
How the Alaska Department of Transportation and Public Facilities’ Commitment to Teamwork and Education Addressed Their Construction Stormwater Management Consent Decree  
Raymond Plummer III, Stantec, Spokane, WA

**P75**........................................ 2:00 PM – 2:30 PM  
Thinking Differently About Stormwater Compliance  
Greg Cannito, Corvias Solutions, Miramar, San Diego, CA

**P76**........................................ 2:30 PM – 3:00 PM  
Auditing by Minimum Control Measure  
Reggie Korthals and Randy Braun, Indiana Dept. of Environmental Management, Indianapolis, IN
**STORMWATER MANAGEMENT FOR SOLID WASTE FACILITIES**
Room 101

W71 3:30 pm – 4:00 pm
Survey of Solid Waste Facility Discharge Exceedances and Selection of Appropriate Structural Stormwater Control Technologies
Cory Jones, SCS Engineers, San Diego, CA
Dave Bearden, SCS Engineers, Phoenix, AZ

W72 2:00 pm – 3:00 pm
Stormwater Compliance Pathways for Solid Waste Facilities: How to Utilize the Good, the Bad, and the Ugly
Cynthia Liles, Clements Environmental, Sherman Oaks, CA

W73 2:30 pm – 3:00 pm
Jonathan Meronek, SCS Engineers, Santa Rosa, CA

**WED 3:30 PM – 5:00 PM**

**BMP CASE STUDIES**
Room 106

B81 3:30 pm – 4:00 pm
Materials of Construction: BMP Case Studies for Inflow/Infiltration and Pipeline Erosion Applications
Kevin Van Tuy, AquaBlok, Swanton, OH

B82 4:00 pm – 4:30 pm
CCCP Culvert Repair Has Proven Itself for NYSDOT
Tom Perry, Multi Utilities Ventures, Hackettstown, NJ

**GREEN INFRASTRUCTURE I**
Room 103

G81 3:30 pm – 4:00 pm
Linking Green Stormwater Infrastructure and Receiving Water Quality: A Case Study
Bob Brasher, CDM Smith, Fort Worth, TX

G82 4:00 pm – 4:30 pm
Green Infrastructure Using Standard and Retrofit Catch Basin Manholes
Todd Wacome, Taylor Cove Development, Andover, MA

G83 4:30 pm – 5:00 pm
Portland’s Bioretention Soil: The City’s Response to Research Concerning Pollutant Export
Henry Stevens, Bureau of Environmental Services, Portland, OR

**GREEN INFRASTRUCTURE II**
Room 102

G84 3:30 pm – 4:00 pm
Love and Haight: Greening the Streets of San Francisco
Thomas Sweet, AECOM, San Francisco, CA
Raphael Garcia, San Francisco Public Utilities Commission, San Francisco, CA
Amir Ehsaei, AECOM, San Francisco, CA

G85 4:00 pm – 4:30 pm
Atlanta’s Regional Green Infrastructure Approach: Six Miles of Permeable Roadway
Cory Rayburn, City of Atlanta, GA
Todd Hill, City of Atlanta, GA

**STORMWATER PROGRAM MANAGEMENT I**
Room 104

P81 3:30 pm – 4:00 pm
Each Drop Adds Up to Big Impacts: Innovative Stormwater Education Successes
Felicia Graham, Dept. of Water, Dayton, OH
Katie Norris, Dept. of Water, Dayton, OH

P82 4:00 pm – 4:30 pm
Innovative MS4 Public Education: The Afterschool Connection
Al Walus, Christopher B. Burke Engineering, Crown Point, IN

**STORMWATER PROGRAM MANAGEMENT II**
Room 105

P83 4:30 pm – 5:00 pm
Drawing Attention to Stormwater: Partnering With Artists to Achieve MS4 Permit Public Education Compliance
Eliana Brown, University of Illinois at Urbana Champaign, Urbana, IL
Irenka Carney, Broad Studio, Urbana, IL

**WATER-QUALITY MONITORING**
Room 101

Q81 3:30 pm – 4:00 pm
Monitoring to Develop a Trash Management Policy and Comply With Federal Water-Quality Obligations
Hamid Karimi, Dept. of Energy and Environment, Washington, DC

Q82 4:00 pm – 4:30 pm
Louisville Synthesis Report: The State of Our Streams
Erin Wagoner, Louisville Metropolitan Sewer District, Louisville, KY
Wes Sydnor, Louisville Metropolitan Sewer District, Louisville, KY
Stephanie Laughlin, Louisville Metropolitan Sewer District, Louisville, KY
Vincent Bowlin, Stantec Consulting Services, Louisville, KY

Q83 4:30 pm – 5:00 pm
A Stormwater Town/Gown Success Story: G201, Service Learning in Chemistry and Water-Quality Monitoring
Kriste Lindberg, City of Bloomington Utilities Dept., Bloomington, IN
Cathrine Reck, Indiana University Dept. of Chemistry, Bloomington, IN
Thursday, August 25
8:00 AM – 9:30 AM

GREEN INFRASTRUCTURE
Room 103
G91  8:00 AM – 8:30 AM
Biofiltration Equivalency: Assessing Relative Performance of Innovative and Conventional Designs
Vaiiko Allen, Contech Engineered Solutions, Ojai, CA
Aaron Poresky, Geosyntec Consultants, Portland, OR

G92  8:30 AM – 9:00 AM
Transmission Losses in Arroyos and Their Impact on Water Quality
Gerhard Schoener, Southern Sandoval County Arroyo Flood Control Authority, Rio Rancho, NM

G93  9:00 AM – 9:30 AM
Root-Enhanced Infiltration in Stormwater Bioretention Facilities in Portland, OR
Ted Hart, Portland State University, Portland, OR

STORMWATER PROGRAM MANAGEMENT
Room 104
P91  8:00 AM – 8:30 AM
Developing a Statewide Highway Stormwater Pollutant Loading Analysis
John Voorhees, AECOM, Middleton, WI
Robert Armstrong, Wisconsin Dept. of Transportation, Madison, WI

P92  8:30 AM – 9:00 AM
Modernizing the Model for Streambank, Watershed, Stormwater Management, and Floodplain Planning and Restoration
April M. Barkasi, Cedarville Engineering Group LLC, Pottstown, PA

P93  9:00 AM – 9:30 AM
Simplifying the Stormwater Management Dam Breach Analysis
Brian Wagner, Taneytown, MD

ADVANCED RESEARCH TOPICS
Room 102
R91  8:00 AM – 8:30 AM
Modeling Relations Between Sediment, Copper, Total Hardness, and Stormflow to Assess Risks for Water-Quality Exceedances With the Stochastic Empirical Loading and Dilution Model (SELDM)
Gregory Granato, US Geological Survey, Northborough, MA
Susan Jones, Federal Highway Administration, Washington, DC

R92  8:30 AM – 9:00 AM
Use of Satellite Evapotranspiration Data in Transient, Groundwater, Fate, and Transport Models
Karen Madsen, AECOM, Chelmsford, MA

R93  9:00 AM – 9:30 AM
Implications of Using Precipitation From NOAA Atlas 14
Michael Mastroluca, HRP Associates, Farmington, CT

HALF-DAY SESSION
Room 106
B91  8:00 AM – 11:30 AM
Apocalyptic Erosion Control: Sustainable Soil Strategies Under El Niño and Drought Conditions
Michael Harding, Geosyntec Consultants, San Diego, CA

HALF-DAY SESSION
Room 105
P94  8:00 AM – 11:30 AM
Save It for a Rainy Day: Stormwater Program Planning and Funding
Mark Hoskins, Michael Baker International, Chicago, IL

THURS 10:00 AM – 11:30 AM
GREEN INFRASTRUCTURE
Room 103
Q01  10:00 AM – 10:30 AM
State Facility Management: Stormwater Handling Through Research and Practice in Historically Traditional Cities: Experiences From Saudi Arabia
Shauquat Alam, Al Bilad Operation and Maintenance, Riyadh, Saudi Arabia

Q02  10:30 AM – 11:00 AM
Improving Capacity in Downtown Atlanta
Ray Hyland, Brown and Caldwell, New York, NY
Aylin Lewallen, Brown and Caldwell, Atlanta, GA

G03  11:00 AM – 11:30 AM
Stormwater Wetlands, an Underused BMP
Thomas Evans, AECOM, Cleveland, OH

STORMWATER PROGRAM MANAGEMENT
Room 104
P01  10:00 AM – 10:30 AM
Engaging Stakeholders in Small Projects for Big Impacts in the Wabash River Watershed
Sara Peel, Wabash River Enhancement Corporation, Lafayette, IN
Lindsey Payne, Purdue University, West Lafayette, IN

P02  10:30 AM – 11:00 AM
Preparing County Extension Agents to Provide Stormwater Education
Gary Hawkins, University of Georgia, Watkinsville, GA

P03  11:00 AM – 11:30 AM
Enlisting Citizens to Report Illicit Discharges
Eric Eckl, Water Words That Work LLC, Frederick, MD
Michael Harris, New Castle County Dept. of Special Services, New Castle, DE

INDUSTRIAL STORMWATER MANAGEMENT
Room 102
D01  10:00 AM – 10:30 AM
Active Aboveground Stormwater Treatment at a Break Bulk and Container Terminal
Ben Fuentes, Kennedy/Jenks Consultants, Federal Way, WA

D02  10:30 AM – 11:00 AM
Case Study: The Treatment System Selection Process for an Industrial Facility on a Superfund Site
Kristine Sommer, Clear Water Services, Lynnwood, WA

D03  11:00 AM – 11:30 AM
Removing Trace Metals From Stormwater at an Industrial Hard Chrome Plating Facility
Paul Eger, Global Minerals Engineering, Hibbing, MN

Check for updates at stormcon.com
**Venue**

The Indiana Convention Center (ICC) is located in Indianapolis, Indiana. The state capital, Indianapolis, ranks in the top 25 most visited cities in the country, with 26 million annual visitors. Indianapolis International Airport accommodates 150 flights each day and is only 15 minutes away.

One of the largest convention centers in America, the ICC is connected by skywalks to more hotel rooms than any other city in the nation. Also linked to the center is a four-story urban shopping mall, surrounded by more than 200 restaurants and clubs, well-known sports venues, and a 10-block state park that features top museums, green space, and a convenient canal walk.

Among the top tier of facilities in terms of meeting space, amenities, and—above all—convenience, the ICC is located in the heart of downtown Indianapolis.

**Indiana Convention Center**  
100 S. Capitol Avenue  
Indianapolis, IN 46225

**Hotel Accommodations**

Attendees can now make and manage their hotel reservations for any of the four hotels. 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.

To enter the [VIP Online Reservation System](https://services.vipmeetings.com/display/show/welcome?accesskey=STC16), use this URL:

![Each hotel is connected to the Indiana Convention Center by skywalk.](image)
JW Marriott  
($199)  
10 S. West Street  
Indianapolis, IN 46204  

Courtyard by Marriott  
($179)  
Downtown  
601 W. Washington St  
Indianapolis, IN 46204  

Fairfield Inn & Suites  
($169)  
501 W Washington St  
Indianapolis, IN 46204  

Springhill Suites  
($179)  
601 W Washington St  
Indianapolis, IN 46204  

To reserve your room and access our hotel block reduced rates for each of the properties listed please use the VIP Online Reservation System.  

Reservation Assistance  
To place room reservations by phone, e-mail, or for questions about the VIP Online Reservation System please use the contact information under “VIP Meetings and Conventions” and be sure to indicate StormCon 2016 to help expedite your request.  

VIP MEETINGS AND CONVENTIONS  
reservations@vipmeetings.com  
Phone: 310-459-0600  
Fax: 310-459-0605  
Domestic: 800-926-3976  
International: 1-310-459-0600  

VIP MEETINGS & CONVENTIONS 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.  

Hertz has been appointed the official car rental company for StormCon 2016. To reserve your rental, please include your CV# 03AN0011 when making reservations.  

1-800-654-2240  
1-405-749-4434  
www.hertz.com
Sightseeing Top Spots


Prepare to be surprised by Indianapolis. On a trip to Indianapolis today, you can entertain the kids at world-class museums, eat food grown on local micro-farms, tap out some witty prose on Kurt Vonnegut’s typewriter at the Kurt Vonnegut Memorial Library (careful what you type—it live tweets), and then dash off to play computer games with curious apes at the Indy Zoo’s International Orangutan Center (indianapoliszoo.com).

Indianapolis has a long-running love affair with cars. The Dallara IndyCar Factory (indycarfactory.com) lets you take the wheel in realistic driving simulators. For the real deal, head to the nearby Indianapolis Motor Speedway (indyacingexperience.com) for a pedal-to-the-metal spin around the legendary track with a real IndyCar driver at the wheel.

The ginormous Children’s Museum of Indianapolis (childrensmuseum.org) is the world’s largest museum just for kiddos, complete with a vintage carousel and a massive dinosaur collection. At the Rhythm Discovery Center kids love banging their way through the percussive instruments of the world, while adults get a chance to go wild on a full drum kit in a studio.

White River State Park

A two-minute walk from your hotel, is home to the Indianapolis Zoo, White River Gardens, Victory Field, Eiteljorg Museum of American Indian and Western Art, Indiana State Museum, IMAX Theater, and NCAA Hall of Champions. It also has the Governor’s Lawn near the river, which is host to concerts during the summer. Central Canal is located within the park.

Wheel Fun Rentals

Explore White River State Park’s miles of biking paths and Historic Central Canal walkway with recreational bicycles and boats. Rent surreys, choppers, quad sports, deuce coupes, and city cruisers, or visit the boathouse to rent paddle boats and kayaks. Bike rentals are located next to The Growing Places Indy Slow Food Garden, and boat rentals are located on the Historic Central Canal. www.WhiteRiverStatePark.org.

Call 317-767-5072 for more information.

Dallara IndyCar Factory

Children’s Museum, Chihuly Tower

Victory Field

White River State Park
LOCAL TIPS AND PICKS

Micro-farms have gained ground in the city, thanks to urban agriculture groups like Growing Places Indy (growingplacesindy.org) that supply produce to local restaurants. One of the newest is Public Greens (publicgreensurbankitchen.com), a cafe in the Broad Ripple neighborhood. The onsite farm raises kale, beets, eggs, and other ingredients for the eatery’s homey dishes.

GETTING AROUND

Quick and Convenient Access

The Indianapolis International Airport (IND) is the first new terminal designed and opened since September 11, 2001, and the nation’s first LEED-certified airport. Indy Airport Taxi 317-381-1111

Indianapolis Yellow Cab 317-487-7777

HorsePower Taxi 317-672-2819

Airport Limousine Indianapolis 317-348-3559

BUS

IndyGo, the Indianapolis Public Transportation Corporation, provides public transit service throughout Marion County. 317-635-3344 (IndyGo.net)

Megabus is the first, low-cost, express bus service to offer city center-to-city center travel for as low as $1 via the Internet. 877-GO2-MEGA, (Megabus.com)

RIDE-SHARING

Lyft – App based

Uber – App based

Blue Indy – An all-electric car share with electric cars strategically positioned around the city. A visitor can pick up a car at the airport, drive it downtown, and drop it off at another charging station near the convention center or host hotel.

Sun King Brewery

is an award-winning Indianapolis-based craft brewery. You never know what’ll be flowing at its unvarnished downtown tap room. Indy’s young and hip pile in to find out, swilling brews from a hot pepper spiced amber ale, to a popcorn-tinged pilsner (made with Indiana popcorn, of course). (sunkingbrewing.com)

Indianapolis Zoo

Children’s Museum
### Registration Packages

#### PRE-CONFERENCE REGISTRATION PACKAGES

**PRE-CONFERENCE ONE-DAY COURSES**

**BMP Selection to Improve Your Watershed**  
Monday, August 22, 8:00 AM – 4:00 PM

**Construction Site SWPPP Compliance: Learning to Truly Implement a Compliant Program**  
Monday, August 22, 8:00 AM – 4:00 PM

**Lessons Learned from Surviving MS4 Program Audits**  
Monday, August 22, 8:00 AM – 4:00 PM

**Myth Busters: Overcoming Barriers to Green Infrastructure**  
Monday, August 22, 8:00 AM – 4:00 PM

**Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses—an Overview of WinSLAMM**  
Monday, August 22, 8:00 AM – 4:00 PM

**Stormwater Quality Modeling with the Stochastic Empirical Dilution Model (SELDM)—an Overview**  
Monday, August 22, 8:00 AM – 4:00 PM

#### PRE-CONFERENCE CERTIFICATION COURSE

**Certified Inspection of Sediment of Erosion Control (CISEC®)**

**Training Modules**
- Sunday, August 21, 8:30 AM – 5:00 PM
- Monday, August 22, 8:30 AM – 11:30 AM

**Certification Exam**  
Monday, August 22, 1:00 PM – 5:00 PM

**REGISTRATION**  
Contact CISEC for details ........................................ 720-235-2783

### CONFERENCE REGISTRATION PACKAGES

#### Early Bird Registration

Please note that early bird discounted fees for the following packages are applicable to all registrations received prior to May 1, 2016. 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 23; Wednesday, August 24; and Thursday, August 25

**REGISTRATION TYPE ............................................. FEE PRIOR TO MAY 1**

- **Attendee** .......................................................... $545
- **Speaker/Sponsor/Exhibitor** ................................. $475
- **Student** .............................................................. $125

**REGISTRATION TYPE .................. FEE AFTER MAY 1**

- **Attendee** .......................................................... $575
- **Speaker/Sponsor/Exhibitor** ................................. $500
- **Student** .............................................................. $125

**INCLUDES:**
- Admission to the Exhibit Hall Reception on Monday
- Admission to the Opening General Session on Tuesday
- Admission to the Speedway Gala on Wednesday
- Unlimited admission to the courses of your choice during all three days
- One ticket to both luncheons on Tuesday and Wednesday
- Admission to all morning coffee breaks and afternoon mixer functions
- Online access to the official StormCon Conference Papers
- One copy of the official StormCon Conference Guide
**TWO-DAY PACKAGE**  
Tuesday, August 23 and Wednesday, August 24; OR Wednesday, August 24 and Thursday, August 25

**EARLY BIRD**  
**REGISTRATION TYPE .......... FEE PRIOR TO MAY 1**  
Attendee ......................................................... $520  
Speaker/Sponsor/Exhibitor ................................. $475  
Student .............................................................. $100

**REGISTRATION TYPE .......... FEE AFTER MAY 1**  
Attendee ......................................................... $575  
Speaker/Sponsor/Exhibitor ................................. $500  
Student .............................................................. $100

**INCLUDES:**  
- Admission to the Exhibit Hall Reception on Monday  
- Admission to the Opening General Session on Monday  
- Admission to the Speedway Gala on Wednesday  
- Unlimited admission to the courses of your choice on Tuesday and Wednesday OR Wednesday and Thursday (depending on package chosen)  
- One ticket to both luncheons on package days  
- Admission to all morning coffee breaks and afternoon mixer functions on package days  
- One copy of the official StormCon Conference Guide

**ONE-DAY PACKAGE**  
Tuesday, August 23 OR Wednesday, August 24

**EARLY BIRD**  
**REGISTRATION TYPE .......... FEE PRIOR TO MAY 1**  
Attendee ......................................................... $375  
Speaker/Sponsor/Exhibitor ................................. $345  
Student .............................................................. $75

**REGISTRATION TYPE .......... FEE AFTER MAY 1**  
Attendee ......................................................... $400  
Speaker/Sponsor/Exhibitor ................................. $375  
Student .............................................................. $75

**INCLUDES:**  
- Admission to the Exhibit Hall Reception on Monday  
- Admission to the Opening General Session on Tuesday  
- Admission to the Speedway Gala on Wednesday  
- Unlimited admission to the courses of your choice on Tuesday only OR Wednesday only (depending on package)  
- One ticket to the day’s luncheon  
- Admission to the morning coffee break and afternoon mixer function  
- One copy of the official StormCon Conference Guide

**EXHIBIT HALL FLOOR ONLY**  
Tuesday, August 23 ................................................. $50  
Wednesday, August 24 ............................................ $50

**THURSDAY OFFSITE TOUR**  
*Taking It to the Streets: A Tour of Green Infrastructure in Indy*  
See page 8 for more information.

**REGISTRATION TYPE**  
Attendee, Speaker, Sponsor, Exhibitor ............... $85

Check for updates at stormcon.com
Registrand Information

First Name: ___________________________ Last Name: ___________________________
Company/Agency/Affiliation: ____________________________________________________
Address: ___________________________________________________________________
City: __________________ State/Province: ____ Zip/Postal Code: ____ Country: ________
Phone: __________________ Fax: __________________ E-mail: __________________
Website Address: __________________

1. Primary Business (Check only one)
☐ 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/Consulting Firm dealing with surface water quality
☐ 8. Contracting/Construction Firm dealing with surface water quality
☐ 9. Dealer/Representative/Distributor/Sales
☐ 10. Association/Society/Library/Educational Institution

Free Subscription Offer!
☐ Yes! I wish to receive Stormwater magazine FREE
☐ No

What is Your Job Title?
☐ 1. Owner/President/Vice President/Elected Official
☐ 2. Manager/Director/Foreman/Supervisor/Inspector
☐ 3. Director/Chief/Superintendent
☐ 4. Engineer/Technician/Specialist/Designer
☐ 5. Program Manager/Coordinator/Project Manager/Planner
☐ 6. Other (Specify) ___________________________

2. Pre-Conference Two-Day Workshops
Comprehensive Stream Stabilization & Restoration Workshop, with an emphasis on Urban Streams
Sunday, Monday, August 21 and 22, 8:00 a.m. – 4:00 p.m.
$295.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
Developing Effective and Practical Storm Water Pollution Prevention Plans
Sunday, Monday, August 21 and 22, 8:00 a.m. – 4:00 p.m.
$295.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student

CERTIFICATION
Certified Inspector of Sediment and Erosion Control (CISEC®)
Sunday, August 21, Training Modules, 8:30 a.m. – 5:00 p.m.
Monday, August 22, Training Modules, 8:30 a.m. – 11:30 a.m.
Monday, August 22, Exam, 1:00 p.m. – 5:00 p.m.
$250.00 Must be Pre-Approved. See website (www.cisecinc.org) for approval process

3. Pre-Conference One Day Workshops
BMP Selection to Improve Your Watershed
Monday, August 22, 8:00 a.m. – 4:00 p.m.
$250.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
Construction Site SWPPP Compliance
Monday, August 22, 8:00 a.m. – 4:00 p.m.
$250.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
Myth Busters: Overcoming Barriers to Green Infrastructure
Monday, August 22, 8:00 a.m. – 4:00 p.m.
$250.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
Lessons Learned from Surviving M4 Program Audits
Monday, August 22, 8:00 a.m. – 4:00 p.m.
$250.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
Stormwater Pollution Modeling for LID, TMDL, and Retrofitting Analyses—WinSLAMM
Monday, August 22, 8:00 a.m. – 4:00 p.m.
$250.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
Stormwater Quality Modeling with the Stochastic Empirical Dilution Model (SELDM)
Monday, August 22, 8:00 a.m. – 4:00 p.m.
$250.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student

4. EARLY BIRD Registration Package Fees Prior to May 1, 2016
Full Conference Package (2.5 days): Tuesday, August 23, Wednesday, August 24, and Thursday, August 25, 2016
$575.00 Attendee, Speaker, Sponsor, Exhibitor
$375.00 Student
2-Day Conference Package: Tuesday, August 23, Wednesday, August 24
$520.00 Attendee, Speaker, Sponsor, Exhibitor
$100.00 Student
2-Day Conference Package: Wednesday, August 24, and Thursday, August 25
$520.00 Attendee, Speaker, Sponsor, Exhibitor
$100.00 Student
1-Day Conference Package: Tuesday, August 23
$375.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
1-Day Conference Package: Wednesday, August 24
$375.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
1-Day Conference Package: Thursday, August 25
$295.00 Attendee, Speaker, Sponsor, Exhibitor
$50.00 Student

5. Registration Package Fees After May 1, 2016
Full Conference Package (2.5 days): Tuesday, August 23, Wednesday, August 24, and Thursday, August 25, 2016
$575.00 Attendee, Speaker, Sponsor, Exhibitor
$375.00 Student
2-Day Conference Package: Tuesday, August 23, Wednesday, August 24
$550.00 Attendee, Speaker, Sponsor, Exhibitor
$125.00 Student
2-Day Conference Package: Wednesday, August 24, and Thursday, August 25
$575.00 Attendee, Speaker, Sponsor, Exhibitor
$100.00 Student
1-Day Conference Package: Tuesday, August 23
$400.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
1-Day Conference Package: Wednesday, August 24
$400.00 Attendee, Speaker, Sponsor, Exhibitor
$75.00 Student
1-Day Conference Package: Thursday, August 25
$300.00 Attendee, Speaker, Sponsor, Exhibitor
$50.00 Student

6. Tour Registration: $85.00 each
Stormwater Mobile Workshop
$85.00
Networking Lunch: $45.00 each

7. Exhibit Hall Only: $50.00 each
Tuesday, August 23
Wednesday, August 24

8. Please Indicate Method of Payment:
☐ Check (Please make checks payable to StormCon)
□ Visa □ MasterCard □ AmEx □ Discover
□ Please Charge: ________________________________________________________________________
□ Account Number: ________________________________________________________________________
□ Expiration Date: __________/__________ Credit Code: __________________________
□ Cardholder Name: ________________________________________________________________________
□ Signature: ______________________________________________________________________________
□ Address: ________________________________________________________________________________
□ City: _____________________________________________________________________________________
□ State/Province: __________________________________________________________________________
□ Zip/Postal Code: __________________________________________
□ Country: ____________________________________________________

Please Note: To avoid delays in registration, please submit one completed registration form per person. If you are paying by check or purchase order, please mail the registration form with your payment.

Cancellation Policy: Cancellations prior to July 2, 2016, will be subject to a processing fee of 35%. After July 2, 2016, registration fees will not be refunded, but may be applied to another individual’s registration fee. StormCon must be notified in writing prior to July 2, 2016 of any transferred registration. A completed form with the new attendee’s information must accompany the notification.

Submit this completed registration form by mail to:
Forester Media Inc., c/o StormCon Registration
P.O. Box 3100, Santa Barbara, CA 93130
or by fax to: 805-682-0200, attention: StormCon Registration
Questions? Contact us at 805-679-7631, or by e-mail at stormcon@forester.net

This form may be reproduced without the written permission of StormCon.
Thank you to all of our generous sponsors.
Join us in Indianapolis this summer!

AUGUST 22–25, 2016
Indiana Convention Center