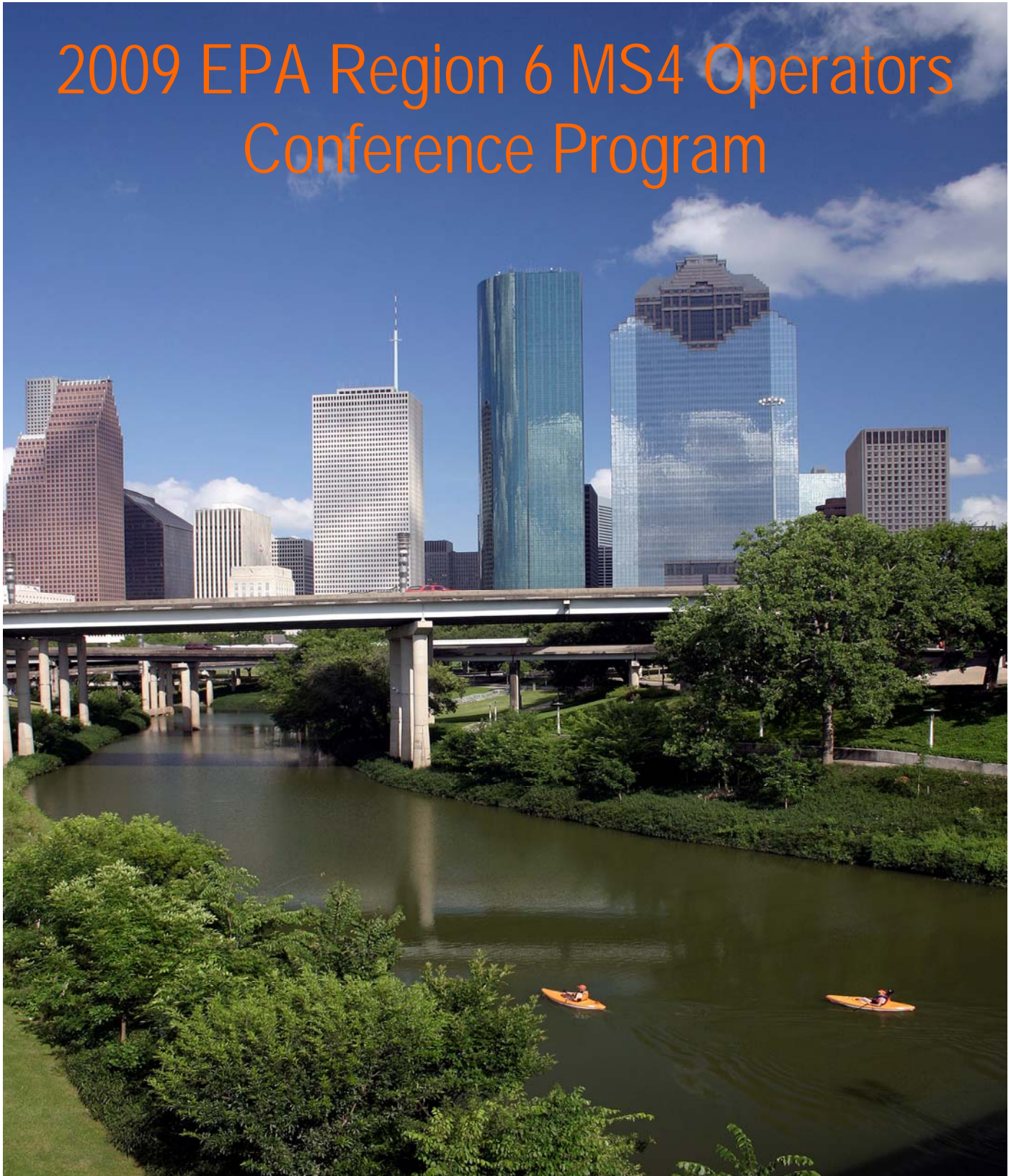




2009 EPA Region 6 MS4 Operators Conference
Monday June 22 through Thursday June 25, 2009
Hilton-Americas and George R. Brown Convention Center, Houston, Texas



2009 EPA Region 6 MS4 Operators Conference Program





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Conference Agenda

Preconference Classes

Saturday June 20 and Sunday June 21 - National Stormwater Center is offering their Certified Stormwater Inspector Course. Registration and additional information may be found on their website [www://npdes.com](http://www.npdes.com) or call 1-888-288-6852

Saturday June 20 CPESC is offering the CPESC review class with exam on Monday June 22.

Sunday June 21 CPESC is offering the CESSWI review class with exam on June 22.

Registration and additional information for these two classes may be found at <http://envirocertintl.org> or contact Paula Dicks, Education Coordinator at EnviroCert International, 49 State Street, Marion NC 28752 Phone 828-655-1600

Conference

June 22 – Monday

| | |
|--------------------|---|
| 7:30 am – 5:00 pm | Registration |
| 8:00 am - 1:00 pm | Exhibitor Booth Set-Up |
| 8:00 am - 12:00 pm | Stormwater 101 |
| | Preconference Classes Exams |
| | Breakout Sessions |
| 12:00 pm – 1:00 pm | Lunch |
| 1:00 pm – 1:45 pm | Plenary Session – Welcome – Arthur Storey, Harris County Michael Marcotte, City of Houston |
| 2:00 pm – 5:00 pm | Exhibitor Hall Open |
| 2:00 pm – 5:00 pm | Breakout Sessions |

June 23 – Tuesday

| | |
|--------------------|---|
| 7:30 am – 5:00 pm | Registration |
| 8:00 am – 5:00 pm | Exhibitor Hall Open |
| 8:00 am – 11:45 am | Breakout Sessions |
| 11:45 am – 1:45 pm | Key Note Luncheon – Bill Honker EPA, Todd Miller, NCCF and Dr. Neal Frank |
| 2:00 pm – 4:00 pm | Breakout Sessions |
| | Construction Inspection Workshop |
| 4:00 pm – 5:00 pm | State Breakout Sessions for Region 6 State Discussions |
| 5:00 pm – 6:30 pm | Exhibitor Reception |

June 24 – Wednesday

| | |
|--------------------|---|
| 6:15 am – 7:00 am | Continental Breakfast |
| 6:45 am – 11:30 pm | Field Trip |
| 7:30 am – 2:00 pm | Registration |
| 8:00 am – 5:00 pm | Exhibitor Hall Open |
| 12:00 am – 1:00 pm | Attendee Luncheon – Mayor Isbell City of Pasadena and Donna Phillips TCEQ to talk about IKE |
| 1:15 pm – 5:00 pm | Breakout Sessions |
| | WinSLAMM Workshop |
| 5:30 pm – 8:00 pm | Awards Banquet with Cash Bar |

June 25 – Thursday

| | |
|--------------------|---|
| 8:00 am - 1:00 pm | Exhibitor Booth tear down |
| 8:00 am – 11:30 am | Breakout Sessions |
| 11:45 am – 1:30 pm | Working Lunch – Wrap Up and “Looking Ahead” |



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Field Trips

The field trip will take conference attendees to two parks; Gene Green Park and Keith Weiss Park.

Gene Green Park is situated on a 240-acre tract of land off Beltway 8 just south of Highway 90. It features 173 acres of storm water retention and 67 acres of trees and grasslands. Amenities include a 2-mile hiking trail, two playgrounds, skate part and various ball courts. Gene Green Park also boasts the county's very first American Bicycle Association-sanctioned BMX track, a spray park and even an amphitheatre. The Congressman and Commissioner, to which the park is attributed, pointed out that the park is more than just a nature preserve, however but a testament to conservation. From the lighting to the water flowing through the spray park to even the building materials that adorn the facility, nearly every part of Gene Green Park was constructed from recycled materials and designed to conserve resources. The park has also been registered with the U.S. Green Building Council (USGBC) for consideration as a Leadership in Energy and Environmental Design (LEED) certified development.



Keith-Weiss Park, a City of Houston park is south of Bush Intercontinental Airport which boast amenities such as tennis courts, five game fields, fishing pier, and picnic areas. A large portion of the park is retained in its natural state with a 100 acre Stormwater Basin designed with detention and water quality features within the 500-acre park. The design provides for the preservation of old forest habitat along the bayou, while creating large ponds and wetlands in the bottom for water quality enhancement and habitat value. The basin portion of the park includes a stormwater monitoring program to research effectiveness of this type of facility being implemented as a stormwater best management practice "BMP". Trails and other multi-use amenities have been included in and around the basin. The District planted thousands of trees and shrubs, as well as wetland vegetation.



City of Houston Adopt -A-Ditch Demonstration Project- Administered by Keep Houston Beautiful and the City of Houston's Department of Public Works and Engineering Right-of-Way and Fleet Maintenance Division, this effort kicked off with a Keep Houston Beautiful Day landscaping of an 845 linear foot ditch by 400 "Teach for America" teacher volunteers. This inaugural project will also provided these teachers a valuable learning experience to take into the classroom as part of a new environmental educational curriculum focused on water quality. Drought-tolerate plants native to Texas temperatures were used, reducing the need for frequent watering. Adopt-A-Ditch is an expansion of the successful Adopt-A-Block program that is a partnership among the City of Houston, Keep Houston Beautiful, local merchants, volunteers, and residents. The goal of the effort is to raise the quality of life by transforming the adopted areas into cleaner, more environmentally pleasant places to live and work.



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Workshops

Tuesday June 23 – 1 ½ Hour Workshop

Construction Storm Water Inspection... “Beyond the Routine Inspection” *Negotiating and Problem Solving to meet Regulatory Compliance*

The regulators and the regulated have long battled over NPDES compliance issues. The regulators want compliance no matter the cost. The regulated are concerned about the cost no matter the compliance. Where is the balance?
As professionals on “both sides of the silt fence” we must all understand “the big picture” and meet at the negotiation summit with common courtesy in mind. We must all own a responsibility to respect one another, interact with each other, communicate often and educate together. This workshop will cover topics of personal relations and negotiation tools and tactics. The majority of the workshop time will engage all participants in six realistic “mock” construction site situations. Six teams (half regulatory, the other half-the regulated) will review six separate construction scenarios (problems) and will attempt to work out resolutions to those problems. The last part of the workshop, we will review all of the scenarios and the proposed resolutions between the conflicting parties.

Topics Covered:

- Common Professional Courtesy
- Constructive Criticism
- Personal Relationship Importance
- Techniques for Compliance
- Problem Solving Negotiation Techniques
- Practical Construction Site Problem Solving Exercise

Presenter:

Phil Handley, REM, CPESC
Construction Compliance Supervisor
Resource Protection and Compliance Department
San Antonio Water System

Please bring your “good attitude” and be ready to have “**FUN**”!

Wednesday June 24 - 4 hour Workshop

Using the Source Loading and Management Model (WinSLAMM) for Urban Stormwater Quality Management

WinSLAMM was developed to predict stormwater pollution in urban areas and to evaluate effectiveness of BMPs. The model uses small storm hydrology to determine the runoff from a series of rainfall events and calculates the pollutant loading generated from these rainfall events. The model can evaluate the effectiveness of stormwater quality control practices, such as infiltration/biofiltration, street cleaning, wet detention ponds, grass swales, porous pavement, or catchbasins. The model is applied to projects at many scales from an individual site development to a large, complex watershed or municipality. More information on the model can be found at: <http://www.winslamm.com>.

Topics Covered

- WinSLAMM Theory and Practice Introduction
- Basic model and data file set-up (hands-on exercise)
- Control Practices
 - Biofiltration/Infiltration (hands-on exercise)
 - Street cleaning (hands-on exercise)
- Using WinSLAMM for MS4 Communities

Presenters

Jim Bachhuber, P.H.; AECOM

John Voorhees, P.E., P.H.; AECOM/PVA

Caroline Burger, P.E.; AECOM/PVA

WinSLAMM Software

A 2-week trial version will be available for workshop attendees at no cost. Instructions to obtain the trial version will be distributed prior to the workshop. A full license can be purchased through the PVA website at: <http://www.winslamm.com/purchase.html>.

WinSLAMM can be run on a PC with Windows XP. The computer will need a CD drive and/or a USB port to load the program. The user will need administrative privileges for the computer if you are going to install the trial version of the program at the workshop. Please make every effort to install the program prior to the workshop.

Please Bring Your Laptop

A laptop computer is needed to fully participate in the workshop. Additionally, participants generally learn more during the workshop if they work in groups of 2 or 3; please be prepared to share your computer with another participant.

Conference Schedule

| Monday June 22, 2009 | | Track 1 – Room 360 AD | Track 2 – Room 360 CF | Track 3 – Room 361 AD | Track 4 – Room 361 CF |
|---------------------------------|---|--|---|--|--|
| 7:30 – 8:00 | Coffee time | | Audits – Phase I | | |
| 8:00 – 8:45 | | Stormwater 101 | TBD | | Exams |
| 8:55 – 9:40 | | | Audits - Paith | | |
| 9:40 – 10:00 | Break | | | | |
| 10:00 – 10:45 | | | TCEQ Audits - Beynon | | |
| 10:55 – 11:40 | | | City of Dallas - Fiffick | | |
| 11:40 – 1:00 | Box Lunch – Pick up lunch in front of Room 371 | | | | |
| 1:00 – 1:45 | Opening Plenary Session – Room 371 | | | | |
| | | Industrial Room 360 AD | Case Studies Room 360 CF | Report Writing Room 361 AD | Design/Technical Room 361 CF |
| 2:05 – 2:50 | | MS4 Ordinances for Cosmetic Cleaning - Hinderliter | Need actual title the repair of underground infrastructure assets - Finley | Electronic Compliance Documentation - Masters | More than a Hole in the Ground - White |
| 2:50-3:10 | Break Room 370 | | | | |
| 3:10 – 3:55 | | MS4 Implementation at an Industrial Facility – Hausler | Clean Rivers Program – A Case Study of Chimney Rock - Williams | Phase II MS4 Annual Report Development and Submittal Process - Stone | Design/Technical Room 361 CF Bacteria Fate and Transport – Pechacek |
| 4:05 – 4:50 | | Unusual Permit Issues - Airports and Sea Ports Inspecting for Stormwater Violations - Whitescarver | Stormwater Pollutant removal effectiveness of compost filter socks - Faucette | Technical writer – COH TBD | Creating a Stormwater Design Criteria - Shanks |
| 4:50 – 5:00 | Exhibitor Hall - open | | | | |
| | Night Out – dinner on your own | | | | |

| Tuesday June 23,2009 | | Track 1 – Room 360 AD | Track 2 – Room 360 CF | Track 3 – Room 361 AD | Track 4 – Room 361 CF |
|---------------------------------|--|---|---|---|--|
| 7:30 – 8:00 | Continental Breakfast | Watershed Management | TMDL | Legal/Policy | Sustainable Development |
| 8:00 – 8:45 | | Watershed Partnership: Key for stormwater management – York (tentative) | Nonpoint Source dominated pathogen TMDLs in Oklahoma - Smith | History and update -Ceil Price | Structurally Sound, Economically Feasible and Environmentally Responsible - Walsh |
| 8:55 – 9:40 | | City of Houston Watershed approach – Ellinger | BIG Consensus – Powers | Tips on Administering the MS4 permit - Patel | Low Impact Development Solutions that Satisfy MS4 Permit Requirements - Harris |
| 9:40 – 10:00 | Break Room 370 | | | | |
| | | Stream Protection and Restoration Room 360 AD | | | |
| 10:00 – 10:45 | | Natural Channel Design toward the Attainment of Water Quality and Source Water protection Goals - Forbes | Water Quality Standards for Contract Recreation: Bacteria TMDLs and MS4 Permits - Bloom | Current legal Issues Update - Ryland | Incorporating innovative stormwater Management technologies into a sustainable use system - Miller |
| 10:55 – 11:40 | | A Tool to indentify and Remediate Sources of Fecal contamination in Surface Waters - Waprick | Bacteria standards: What they Mean and How We got to Where We are - Bennett | Intergovernmental Cooperative Agreements- Zwinggi | Potential Methods for an Environmentally Sensible Future - Picha |
| 11:45 – 1:45 | Key Note Luncheon Guest Speakers –City of Houston, Harris County, Miguel Flores, EPA Hilton America Ballroom of the Americas | | | | |
| | | Phase II Room 360 AD – special tracking- ½ hr sessions | Construction Inspection 1 ½ hr Workshop Room 360CF | Policy Room 361 AD | Sustainable Development Room 361 CF |
| 2:00 – 2:45 | | Lessons learned and Benefits of Phase II MS4 Coalitions - Concienne Regulatory Mechanisms for Phase II MS4s - Arce | Texas Association of Builders stormwater self certification program - Handley | Water Quality in Effluent Dominated Waterways: The Impact of Wastewater Treatment Plants - Blount | Innovative Technologies in Site Design to Maximize LEED Site Points - Batts |
| 2:55 – 3:35 | | Various approaches for stakeholder development of Phase II SWMPs - Beitel | | Harris County and Harris County Flood Control District's Bacteria Reduction Plan - Martin | COH Green Building Resource Center- Level of Green Education-Stelzer |
| 3:40 – 3:55 | Break Room 370 | | | | |
| 4:00 – 5:00 | State Break Out Sessions AR – Room 360 AD, OK – Room 360 CF, LA – Room 361 AD, NM – Room 361 CF, TX – Room 371 | | | | |
| 5:00 – 6:30 | Vendor Reception – Room 370 | | | | |
| | Night Out – Astros – evening game and/or dinner on your own | | | | |

| Wednesday June 24, 2009 | | Track 1 – Room 360 AD | Track 2 – Room 360 CF | Track 3 – Room 361 AD | Track 4 – Room 361 CF |
|------------------------------------|---|---|--|---|---|
| 6:15 – 7:00 | Continental Breakfast Hilton America Ballroom of the Americas | | | | |
| 6:45 -11:30 | Field Trips – meet in front of Hilton America – Buses leave promptly at 7 AM | | | | |
| 12:00 – 1:00 | Attendee Luncheon Guest Speakers – Donna Phillips – TCEQ & Mayor Isbell – City of Pasadena discussing IKE Hilton America Ballroom of the Americas | | | | |
| | | Public Outreach/ Education Room 360 AD | Illicit Discharges Room 360 CF | Construction Room 361 AD | WinSLAMM Workshop Room 361 CF |
| 1:15 – 2:00 | | Houston-Galveston Regional Watershed Protection Program - Hamilton | Controlling Illicit Discharges from Food Facilities – Wilson | Effluent Limitations: Deconstructing the Consequences to your MS4- Boer | |
| 2:10 – 2:55 | | Adopt a ditch - Coles | Setting up an Illicit Discharge Program – Calvino | In-Situ Repair of Corrugated Metal Pipe Culverts and Drain Lines- Ev Stephen | |
| 2:55 – 3:15 | Break – Room 370 | | | | |
| | | Public Outreach/ Education Room 360 AD | Special Sessions | Construction Room 361 AD | WinSLAMM Workshop (cont.) Room 361 CF |
| 3:20 – 4:05 | | Developing a Stormwater Curriculum – Schreiber- Garza | Room 360 CF Questions and Answers – Open Forum | Active Treatment of Sedimentation - Martich | |
| 4:15 – 5:00 | | Developing an Outreach and Education Plan – Schreiber-Garza | Loading Dock 65 & 65 - Large Equipment to view | Construction, Compliance and General Contractor - Moss | |
| 5:30 – 8:00 | Awards Banquet – Balcony D – George R Brown | | | | |

| Thursday June 25, 2009 | | Track 1 – Room 360 AD | Track 2 – Room 360 CF | Track 3 – Room 361 AD | |
|-----------------------------------|-------------------------------------|---|---|---|--|
| 7:30 – 8:00 | Coffee time | Post Construction | Lessons Learned | Innovative and New Technologies | |
| 8:00 – 8:45 | | Mobility Technology Use for Storm Water Compliance Inspections – Handley | Community Action for a renewed environment - Santoyo | Removal of Waterborne Pathogens Using an Antimicrobial Filter Media - Miller | |
| 8:55 – 9:40 | | San Antonio Water System TPDES Inspector Training Workshop - Handley | Cooking Oil Collection as a BMP - Redfearn | Created water quality enhancement wetlands and initial water quality monitoring results in HCFCF detention basins.- Bloom | |
| 9:40 – 10:00 | Break – in front of Room 371 | | | | |
| 10:00 – 10:45 | | Review of Stormwater Quality BMPs - Chapin | Texas Association of Builders-Storm Water Self Assessment Program. The TAB, IECA EPA Region 6 (Everett Spencer and Diana McDonald) and TCEQ | The National Research Council's Urban Stormwater Management in the US: Implications - Bloom | |
| 10:55 – 11:40 | | Storm Water Best management Practices for Post Construction Activities in Harris County - Mellium | | Turbidity Reduction Using Flocculation Enhanced Filtration Technology for Construction Sites and Dewatering Programs - Miller | |
| 11:45 – 1:30 | | Wrap Up and Looking Ahead Discussion During Lunch Pick up lunch in front of Room 371 | | | |
| | | | | | |



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