17thRAILROAD ENVIRONMENTAL CONFERENCE

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27-28 Остовек 2015

The

Program

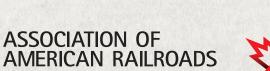




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Conference Overivew and Featured Events

Monday, October 26th, 2015

Exhibitor set-up	1:00pm - 5:00pm	Illini Rooms ABC	(1 st Floor)
Tuesday, October 27th, 2015			
Continental Breakfast	7:00am - 9:00am	Illini Rooms ABC	(1 st Floor)
Registration Open	7:00am - 5:00pm	Illini Lobby	(1 st Floor)
Plenary Session	8:00am - 9:25am	Ballroom	(2 nd Floor)
Break	9:25am - 9:55am	Illini Rooms ABC	(1 st Floor)
Presentation Sessions	9:55am - 11:55am	314A & 314B	(3 rd Floor)
Luncheon	11:55am - 1:25pm	Ballroom	(2 nd Floor)
Presentation Sessions	1:25pm - 3:05pm	314A & 314B	(3 rd Floor)
Break	3:05pm - 3:35pm	Illini Rooms ABC	(1 st Floor)
Presentation Sessions	3:35pm - 5:15pm	314A & 314B	(3 rd Floor)
Reception/Poster Presentations	5:15pm - 6:45pm	South Lounge	(1 st Floor)
AREMA COMMITTEE 13 BANQUET*	7:15pm	Ballroom	(2 nd Floor)
Banquet Speaker: John Lovenburg - BNSF Railw	vay 8:00pm		

*Advance registration needed for AREMA banquet

WEDNESDAY, OCTOBER 28TH, 2015

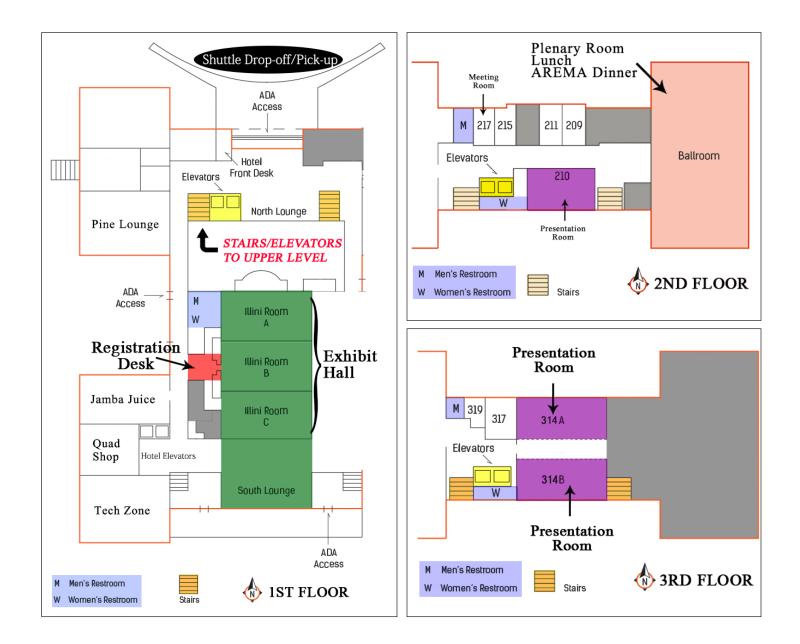
AREMA Committee 13 Meeting	7:00am - 8:00am	210	(2 nd Floor)
Continental Breakfast	7:00am - 9:00am	Illini Rooms ABC	(1 st Floor)
Registration Open	7:00am - 5:30pm	Illini Lobby	(1 st Floor)
Plenary Session	8:00am - 9:20am	Ballroom	(2 nd Floor)
CONFERENCE KEYNOTE ADDRESS	8:50am - 9:20am	Ballroom	(2 nd Floor)
Speaker: Michael Rush - Association of American I	Railroads		
Break	9:20am - 9:50am	Illini Rooms ABC	(1 st Floor)
Presentation Sessions	9:50am - 11:50am	314A & 314B	(3 rd Floor)
Luncheon	11:50am - 1:20pm	Ballroom	(2 nd Floor)
Presentation Sessions	1:20pm - 3:00pm	314A & 314B	(3 rd Floor)
3 rd Presentation Session	1:20pm - 3:20pm	210	(2 nd Floor)
Break	3:00pm - 3:30pm	Illini Rooms ABC	(1 st Floor)
Presentation Sessions	3:30pm - 5:30pm	314A & 314B	(3 rd Floor)
Adjourn	5:30pm		
Exhibitor Breakdown	3:30pm - 7:30pm	Illini Rooms ABC	(1 st Floor)
Trivia Night with the UIUC AREMA Student Chapter	7:00pm	Blind Pig	
		120 N Walnut St, Char	npaign, IL

Wireless Internet

- Choose the "UIpublicWiFi" wireless network.
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For Conference Outline, Abstract Summaries & Presentations go to:

http://railtec.illinois.edu/RREC/2015_Presentations.php

	Ballroom (2 nd Floor)	
	Plenary Session	
	David Smat - BNSF Railway	CURVIC AND
8:00	Welcome and Introduction Christopher Barkan – University of Illinois at Urbana-Champaign	
8:10	Environmental Issues Affecting the North American Railroads <i>Robert Fronczak – Association of American Railroads</i>	
8:35	Waters of the US Rule Matt Gernand – Norfolk Southern Railway	
9:00	Environmental Best Way - Leading Environmental Management at BNSF Lorraine Pack & David Smat – BNSF Railway	
9:25	BREAK - Illin	i Rooms ABC
	Room 314A	Room 314B
	Environmental Response	Stormwater & Wastewater
	John Kind - CTEH	Hugh Perry - CSX John Williams - Pace Analytical
9:55	Community Engagement and Oil Spill Mass Estimates, Lessons from the Lynchburg, VA Crude Oil Derailment <i>S. Michael Austin – CSX Transportation</i> <i>Andrew McManus & Albert Buell – ARCADIS U.S., Inc.</i>	Improving the Performance of Oil/Water Separators Russ McDaniel – Norfolk Southern Railway Robert Stolt – AECOM
10:15	Advancing Derailment Oil Spill Loss and Mass Estimates Michael Bethge, S. Michael Austin & Chris Machenberg – CSX Transportation Fred Payne & Andrew McManus – ARCADIS U.S., Inc.	Stormwater Utility Fee Credit Application Success for the NS Whitaker Intermodal Facility Victoria Cheplak – Geosyntec Consultants Troy Carpenter – Norfolk Southern Railway
10:35	New Tools for Real-Time Decision Making and Risk Management Marco Capodivacca, Tammy Rabideau, Patti McCall, Alison Rauss, Joel Peters & Bill Spiking – Tetra Tech	Feasibility Evaluations: Extending the Lifespan of Oil Water Separators Russ McDaniel – Norfolk Southern Railway Mark Boland & Robert Griffin – Shield Engineering, Inc
10:55	Derailment Impacts to Environment and Rail Related Infrastructure Involving Multiple Disciplines - Keeping Small Things Small Todd McFarland – Amec Foster Wheeler, Inc. Dan Dyer – CSX Transportation	Risk Profiling of Rail Operations Based Wastewater Assets David Poole – Dillon Consulting Limited Craig Fisher – Canadian Pacific Railway
11:15	Natural Resource Damages - A Reality for Railway Operators and Insider Tips to Help Prevent and Resolve Associated Liabilities Barbara Goldsmith – Barbara J. Goldsmith & Company	Automated Weir-Based Structures for Stormwater Systems <i>Russ McDaniel – Norfolk Southern Railway</i> <i>Laura Thurn – AECOM</i>
11:35	Remediation Portfolio Management Through Value Engineering Allen Stegman & Charles Thomas – BNSF Fred Payne, Jon Smith, Todd O'Brien & Martina Jones – ARCADIS U.S., Inc.	Lessons Learned from CP's Wastewater and Storm Water Treatment Standard Implementation Study Ted Bailey – Aureus Solutions Inc. Craig Fisher – Canadian Pacific Railway
11:55	LUNCH - Ballro AAR Environmental Excellence Award <i>Rober</i> t	oom (2nd Floor) t Fronczak - Association of American Railroads
	Room 314A	Room 314B
	Risk & Liability Management Ken Rose - OmniTrax	Stormwater & Wastewater (cont.)
1:25	The Shifting Regulatory Landscape Surrounding Chemicals of Historical Concern on Railroad Properties: Focus on Trichloroethylene, Benzo(a)pyrene and Lead Joshua Harrill & Alan Nye – CTEH Allen Stegman – BNSF Railway	Oil/Water Separator Design Selection Top 10 List! <i>Russ McDaniel – Norfolk Southern Railway</i> <i>Chris Evensen – ARCADIS U.S., Inc.</i>

Spoken Presentations - Tuesday 27 October - Continued

	Room 314A	Room 314B	
	Risk & Liability Management (cont.)	Environmental Planning of Passenger & Freight Rail Projects Gary Rozmus - GEI Consultants	
1:45	Improving Contractor Safety Lauren Mancuso – Union Pacific Railroad	Enhancing Rail Project Planning Through Effective NEPA/ NHPA Review Brandon Gabler, Kevin Keller & Alan Stanfill – HDR Derin Warren – BNSF Railway Keith Brinker – CSX Transportation	
2:05	Risk Modeling of Petroleum Crude Oil Transportation Releases Manuel Martin Ramos & M. Rapik Saat – University of Illinois at Urbana-Champaign	Phased Section 106 Consultation Barbara Frost & Amber Taylor – TranSystems Sustainability Scott Keating - GEI Consultants	
2:25	Natural Resource Damages Claims: A Primer on This Potential Liability for the Railroad Industry Jody Kubitz, Brian Reilly & Angie Morrow – Cardno	Taking a Sector-based Approach to Sustainability Michael Gullo – Railway Association of Canada	
2:45	Rail Yard Case Study: Aging Subsurface Infrastructure and Environmental Issues Stuart Boykin – CSX Transportation Tobias Parker & Patrick Campbell – Ramboll Environ	Thornton Yard Geobag Sludge Management - Sustainability Initiative Richard Johns & Francisco Perello – Keystone Environmental Ltd. David Brogliatto – CN	
3:05	BREAK - Illini Rooms ABC		
	Room 314A Room 314B		
	Room 314A	Room 314B	
	Room 314A Risk & Liability Management Leo Thorbecke - AECOM	Room 314B Sustainability (cont.)	
3:35	Risk & Liability Management	Sustainability	
3:35	Risk & Liability Management Leo Thorbecke - AECOM Prevention of a Diesel Fuel Release to the Environment by the Successful Design and Construction of a Subsurface Mitigation System	Sustainability (cont.) Establishing a Corporate Recycling Baseline and Tracking Progress	
	Risk & Liability Management Leo Thorbecke - AECOMPrevention of a Diesel Fuel Release to the Environment by the Successful Design and Construction of a Subsurface Mitigation System Sam Farnsworth – Amec Foster Wheeler, Inc.Real Estate Environmental Risk Review Programs - A Decade of Lessons Learned John Jolly – Amec Foster Wheeler, Inc. Lori Kelley & Steven Aufdenkampe – Norfolk Southern RailwayRail Resiliency Planning Panel Gary Rozmus – GEI Consultants, Inc.	Sustainability (cont.) Establishing a Corporate Recycling Baseline and Tracking Progress Kelsey Gibbons & Laura Fotiou – Amtrak CSX Contributes to Oyster Reef Restoration in the Chesapeake Bay With Delivery of Fossilized Shells	
3:55	Risk & Liability Management Leo Thorbecke - AECOMPrevention of a Diesel Fuel Release to the Environment by the Successful Design and Construction of a Subsurface Mitigation System Sam Farnsworth – Amec Foster Wheeler, Inc.Real Estate Environmental Risk Review Programs - A Decade of Lessons Learned John Jolly – Amec Foster Wheeler, Inc. Lori Kelley & Steven Aufdenkampe – Norfolk Southern RailwayRail Resiliency Planning Panel	Sustainability (cont.) Establishing a Corporate Recycling Baseline and Tracking Progress Kelsey Gibbons & Laura Fotiou – Amtrak CSX Contributes to Oyster Reef Restoration in the Chesapeake Bay With Delivery of Fossilized Shells Meaghan Atkinson – CSX Transportation Making Engagement Shine	
3:55	Risk & Liability Management Leo Thorbecke - AECOMPrevention of a Diesel Fuel Release to the Environment by the Successful Design and Construction of a Subsurface Mitigation System Sam Farnsworth – Amec Foster Wheeler, Inc.Real Estate Environmental Risk Review Programs - A Decade of Lessons Learned John Jolly – Amec Foster Wheeler, Inc. Lori Kelley & Steven Aufdenkampe – Norfolk Southern RailwayRail Resiliency Planning Panel Gary Rozmus – GEI Consultants, Inc. Celia Ann Pfleckl & Kelsey Bergan – Amtrak	Sustainability (cont.) Establishing a Corporate Recycling Baseline and Tracking Progress Kelsey Gibbons & Laura Fotiou – Amtrak CSX Contributes to Oyster Reef Restoration in the Chesapeake Bay With Delivery of Fossilized Shells Meaghan Atkinson – CSX Transportation Making Engagement Shine Jim Brannen – Union Pacific Railroad Effectively Incorporating Sustainability in Freight Rail and Transit Design: Using the Envision™ Manual in the Decision Making Process	

RREC 2016 - Save the Date



November 1-2, 2016

Spoken Presentations - Wednesday 28 October

	210 - General Lounge	
7:00 AREMA Comr	nittee 13 Meeting	
	Ballroom (2 nd Floor)	
Jon	Plenary Session Germer - Union Pacific Railroad	
Evelyn Nackman -	onmental Attorney Issues - Association of American Railroads	
8:25 Update on Fut Michael Iden – Un	u re Fuels ion Pacific Railroad	
	Ceynote Address Association of American Railroads	₩
9:20	BREAK - Illin	ni Rooms ABC
	Room 314A	Room 314B
	Remediation - General Schlauch Jones - ARCADIS U.S., Inc. Joshua Sales - Kennedy/Jenks	Noise & Vibration Betsy Beauchamp - TestAmerica
Cautionary Tal Ryan Oesterreich	for Evaluation of In-Situ Iron Fouling A e of Aquifer Blockage & Mark Klemmer – ARCADIS U.S., Inc. SX Transportation	Use of Real-time Noise and Vibration Monitors Adjacent to Rail Corridors <i>Ben Coulson – RWDI</i>
Back Diffusior	pplicable Cleanup Criteria when None Exist: from Soil to Groundwater Klemmer & Scott Potter – ARCADIS U.S., Inc. SX Transportation	How to Deal with Rail Vibration Frank Babic, Alfredo Rodrigues & Buddy Ledger – Amec Foster Wheeler, Inc.
Remediation i John Gullace – Ma Michael Lambert –	Remediation In a Fish Bowl: Conducting a n the Midst of a Complex Transaction nko, Gold, Katcher & Fox, LLP Geosyntec Consultants	Virginia Avenue Tunnel Reconstruction Noise Analysis Ahmed El-Aassar – Environmental Acoustics, A Division of Gannett Fleming Inc. Keith Brinker – CSX Transportation
William Parry – C	SX Transportation	Environmental Management Systems Joanne Maxwell - Amtrak
Southern Mini Jeff Powell & Keith	n of Weathered Crude Oil in Complex Soils: A nesota Field Study 1 Rapp – Pinnacle Engineering Canadian Pacific Railway	Avoiding Run to Failure- Development of a Program for Wastewater Treatment Plant Preventative Maintenance Standardization Erica Adair – Ramboll Environ Jeff Buchanan – CSX Transportation
Tools & Tests Amanda McNally	ern Sustainable Remediation Program – Tiers, & Dave Woodward – AECOM Iorfolk Southern Railway	Laying Tracks for EH&S Performance Allen Stegman – BNSF Railway Glenn Mayer – E2 ManageTech
Residential Se <i>Tracey Hall – AEC</i>	act Mitigation at a Sugar Spill Site in a tting in Louisiana COM e – Norfolk Southern Railway	A Real-time and Forecast Puff Dispersion Modelling System that Models Accidental Atmospheric Release Events from Rail Cars Ron Chapman & Francoise Robe – RWDI Martin Bundred – Alberta Environment and Sustainable Resource Development
11:50	LUNCH and Supporter Acknow	ledgement - Ballroom (2nd Floor)
After lu	inch, a special 3 rd session will run conc	currently in room 210 from 1:20-3:20pm
		m 210
		erailment Panel Byden - CN

1:20-	CN Perryville Incident and Response Panel
3.20	Brian Hayden – CN John Kind – Center for Toxicology and Environmental Health, LLC Jamie Krejsa & David Czayka – EnviroScience, Inc.
5.20	John Kind – Center for Toxicology and Environmental Health, LLC
	Jamie Krejsa & David Czayka – EnviroScience, Inc.
	Todd O'Brien – ARCADIS U.S., Inc.

Spoken Presentations - Wednesday 28 October - Continued

	Room 314A	Room 314B
	Remediation - Specific Dan Dyer - CSX Transportation Jay Martin - Amec Foster Wheeler, Inc.	Environmental Management Systems (cont.)
1:20	Meeting the Critical Deadline while Implementing a Trio of Multi-million Dollar Remedies: Collaboration Required	A New EHS Process in Environmental Management John Grogan – Union Pacific Railroad
	Rebecca Robbennolt, Scott Murphy & Mark Klemmer – ARCADIS U.S., Inc. William Parry – CSX Transportation	Energy, Emissions & Air Quality Robert Fronczak - Association of American Railroads Kenneth Richardson - ARCADIS U.S., Inc.
1:40	Directed Groundwater Recirculation Fast Track to Site Closure <i>Scott Murphy, Mark Klemmer & Rebecca Robbennolt – ARCADIS U.S., Inc.</i> <i>William Parry – CSX Transportation</i>	Methods of Analyzing and Comparing the Energy Efficiency of Passenger Rail Systems to Competing Modes Giovanni C. DiDomenico & C. Tyler Dick – University of Illinois at Urbana-Champaign
2:00	15 Years Later: Tree-Assisted Creosote Remediation at the Former Tennessee Railroad Rail-Tie Yard in Oneida, Tennessee Barry Harding – AECOM Steven Aufdenkampe – Norfolk Southern Railway Mark Widdowson & John Novak – Virginia Tech	Air Quality Monitoring during Railroad Tunnel Construction Activities in an Urban Environment Dyron Hamlin – GHD Billy Bullock – CSX Transportation
2:20	How to Remediate a Long-Term Release of Residual Petroleum Hydrocarbons to Groundwater Using a Permeable Adsorption Barrier Union Pacific Railroad Colfax Yard, Colfax, CA	Addressing the New CEQ Guidance on Climate Change Michael Savonis, Christopher Evans, Alan Summerville, Angela Wong & Elizabeth Diller – ICF International
	David Hodson & John Skwiot – CH2M HILL Lauren Mancuso – Union Pacific Railroad	Compliance Russ McDaniel - Norfolk Southern Railway Kevin Keller - HDR
2:40	Use of Reactive Minerals to Remediate Chlorinated Solvents in Groundwater at a Locomotive Repair Shop <i>Barry Christian & Matthew Zenker – AECOM</i> <i>Curtis Bartz – CN</i>	Program Improvements for Norfolk Southern's Environmental Auditing Program <i>Eric Chang – Norfolk Southern Railway</i>
3:00	BREAK - Illin	ni Rooms ABC
	Room 314A	Room 314B
	Remediation - LNAPL Stella Karnis - CN Chuck Cline - Cardno	Compliance (cont.)
3:30	Automated LNAPL Baildown Testing Equipment: Better, Cheaper, Safer Data Andrew Pennington, Jonathon Smith & Brad Koons – ARCADIS U.S., Inc.	Clean Water Act Compliance Training - Cultivating a Culture of Compliance Kenneth Richardson – ARCADIS U.S., Inc. Eric Chang – Norfolk Southern Railway
3:50	The Importance of Single Well Conceptual Models <i>Trevre Andrews – CH2M HILL</i>	Challenges and Successful Asbestos Abatement for Nine Box Cars Rick Nath – CSX Transportation Roy Stancil – AECOM
4:10	Estimating Natural Source Zone Depletion Rates From Subsurface Temperature Data Jonathon Smith, Tim Wippold & Brad Koons – ARCADIS U.S., Inc.	CSXT Air Permitting Success - Phosphate Fertilizer Facility William Karl – Environmental Consulting & Technology, Inc. Richard Nath – CSX Transportation
4:30	An Interactive Tool for Visualizing High Resolution LNAPL Characterization Results Wayne Amber & Bryan VanDuinen – Geosyntec Consultants Steven Aufdenkampe – Norfolk Southern Railway	Compensatory Wetland and Stream Mitigation: Information That You Can Take to the Bank <i>Mary Motte Fikri – Amec Foster Wheeler, Inc.</i> <i>Rick Nath - CSX Transportation</i>
4:50	Pathway to Closure at Sites with LNAPL: A Case Study Jonathon Smith, Lauren Alkidas & Colleen Barton – ARCADIS U.S., Inc. Neil Ferrone – Consolidated Rail Corporation Daniel Dyer – CSX Transportation Steven Aufdenkampe – Norfolk Southern Railway	Proactive Measures Taken to Prepare Facilities for Regulatory Inspections <i>Gaymeon Gibson – Norfolk Southern Railway</i> <i>Mark Neal & James Barry – Cardno</i>
5:10	Demonstrating the Effectiveness of NSZD Compared to Hydraulic LNAPL Recovery Steven Gaito & Mark Klemmer – ARCADIS U.S., Inc. William Parry – CSX Transportation	
5:30	ADJC	DURN

Poster Presentations - Tuesday 27 October 5:15 PM - South Lounge

Energy, Emissions & Air Quality

1. National Ambient Air Quality Standards: The Driving Force Gale Hoffnagle – TRC

2. Propulsion Technologies for 21st Century Intercity Passenger and Freight Rail: Summary Analyses Raphael Isaac – Institute of Transportation Studies University of California, Davis

Environmental Management Systems

3. Why Traditional Project Management Approaches Fail for Remediation Projects *Roger Well – ENFOS, Inc.*

4. Rail Yard Environmental Management: More Effective Long Term Monitoring Strategy Todd Halihan – Oklahoma State University

Environmental Planning of Passenger & Freight Rail Projects

5. The Massachusetts Bay Transportation Authority's Green Line Extension -Passenger Line Expansion in a Dense Urban Area Frank Ricciardi – Weston & Sampson

6. Using an Environmental Risk Model to Move Infrastructure Projects Forward *Tony Rodolakis – Amec Foster Wheeler, Inc.*

Environmental Response

7. Oil Spill Response Equipment: Mechanical and Controlled Burning Operations Shon Mosier – Elastec

7. Planning for Disaster: Know How to Keep Things From Blowing Up on You Mark McDaniel – AlterEcho

Remediation

9. Environmental Management of Historical Rail Commodities to Provide Future Opportunities for Recycling and Reuse Della Berwanger – Canadian Pacific Railway Che McRae – Golder Associates, Ltd.

10. Novel Use of Digital Metadata Derived from Ultraviolet Fluorescence Soil Core Imagery at Norfolk Southern Diesel LNAPL Sites Barry Harding & Colin Plank – AECOM

Barry Harding & Colin Plank – AECOM Scott Pittenger – Norfolk Southern Railway

11. Nationwide (USA) Statistical Analysis of LNAPL Transmissivity J. Michael Hawthorne – H2A Environmental, LTD., a subsidiary of GEI Consultants, Inc.

12. Developing an LNAPL Management Strategy Steven Gaito & Mark Klemmer – ARCADIS U.S., Inc. William Parry – CSX Transportation 13. Design, Operation, and Analysis of Single-well, Push-Pull, Sulfate Respirometry Tests in an Aquifer Containing Light Non-Aqueous Phase Liquid Diesel: Case Study at the CSXT Papa John's Cardinal Stadium Site, Louisville, Kentucky Peter Guerra, Marie Dowd & Jim McCord – Amec Foster Wheeler, Inc. Daniel Dyer – CSX Transportation

Risk & Liability Management

14. Regulated Building Material Abatement in Occupied Buildings - Best Practices *Peter Frederick & Lauren Alkidas – ARCADIS U.S., Inc. Richard Nath – CSX Transportation*

15. Development and Use of a Decision Matrix to Aid in the Management of Subsurface Diesel Impacts at a Hydrogeologically Complex Site Sherry Eaton – Golder Associates, Inc. Seble Afework – CN

Stormwater & Wastewater

16. First, Do No Harm: Maintaining Hydraulic Benefits During Site Restoration *Jon Williams and Scott Keating – GEI Consultants, Inc. C. McDaniel – Norfolk Southern Railway*

17. Comparison of the Washington and California Industrial Stormwater General Permits and Strategies for Compliance Matt Prasek – EA Engineering, Science, and Technology, Inc., PBC

Emergency Information



Dial **911** for assistance or **9-911** from a campus phone. The conference location is: Illini Union, 1401 W. Green St., Urbana, IL.



Tornado: Use the stairs on the north or south side of the building to go to the basement to seek shelter.



Fire: Use the doors located on the west side of the building and meet on the southeast side of Altgeld Hall (building #26 on map on page 11).

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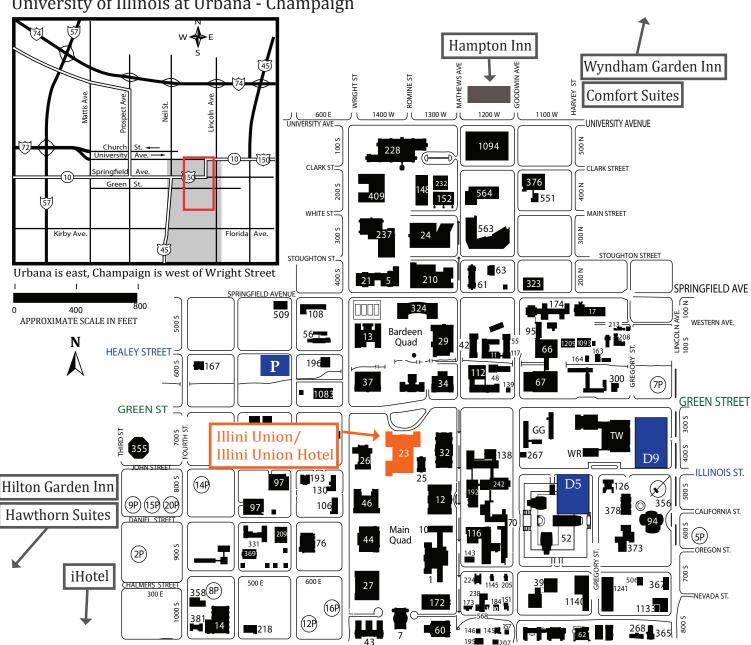
Champaign 82 East University Ave Champaign IL 217- 351-4545 **Urbana** 400 South Vine Street Urbana IL 217- 384-2320 **University of Illinois** 1110 W Springfield Ave Urbana IL 217- 244-7209



Carle Foundation Hospital 611 West Park Street, Urbana IL 217- 383-3311

Presence Covenant Medical Center 1400 West Park Street, Urbana IL 217- 337-2000

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University of Illinois at Urbana - Champaign

RREC Shuttle Schedule

Shuttle runs between Illini Union, Hawthorn Suites, Hilton Garden Inn, Hampton Inn, Wyndham Garden Inn, and Comfort Suites.

Tuesday, October 27th, 2015 Wednesday, October 28th, 2015 7:00 am - 9:30 pm 7:00 am - 6:00 pm

Public Parking

Please use the shuttle busses that are provided. Parking on campus is *extremely* limited.

Campus Center Public Parking Deck 509 E Healey Street, Champaign, IL No reservations. Availability not guaranteed.

Hourly Parking Rates: 1-7 Hours @ \$1 per hour; 8-12 Hours @ \$8 flat rate

Parking Lots D5 and D9 are for purchased conference parking passes only.

Exhibitors

Accutest Laboratories AECOM Aestus LLC Alpha Analytics Amec Foster Wheeler, Inc. AquaBlock, Ltd ARCADIS U.S., Inc. Association of American Railroads **BELFOR Environmental** Cardno Cascade Drilling, LP CB&I Center for Toxicology and Environmental Health, LLC Century Group, Inc. CH2M Hill **Chase Environmental Clean Harbors Environmental Services** Dewberry EA Engineering, Science & Technology THUR IN THE STATE

Planning Committee

Riaz Ahmed - TRC Chris Barkan - University of Illinois Betsy Beauchamp - TestAmerica Craig Caldwell - Amtrak Troy Carpenter - Norfolk Southern Railway Michael Clift - BNSF Railway Chuck Cline - Cardno Jay Diebold - Golder Dan Dyer - CSX Sam Farnsworth - Amec Foster Wheeler, Inc. Bob Fronczak - Association of American Railroads Gaymeon Gibson - Norfolk Southern Railway Stella Karnis - CN Scott Keating - GEI Consultants, Inc. Kevin Keller - HDR John Kind - CTEH Kevin Maggay - BNSF Railway Jay Martin - Amec Foster Wheeler, Inc. Joanne Maxwell - Amtrak

Earth Services & Abatement, Inc. Envirocon, Inc. **Environmental Management Specialists Environmental Restoration** Environmental Works, Inc. EnviroScience, Inc. **ESC Lab Sciences** ETEC, LLC **Eurofins Lancaster Laboratories Evolution Sorbent Products** Gannett Fleming, Inc. GEI Consultants, Inc. Geo-Cleanse International, Inc. Geo-Solutions, Inc. **Geosyntec Consultants** GHD Golder Associates Groundwater & Environmental Services Hatch Mott MacDonald Haz Mat Response, Inc.

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HDR Engineering, Inc. HEPACO Heritage Hulcher Services, Inc. **ICF** International Industrial Maintenance Group, Inc. **JRW Bioremediation**, LLC Marion Environmental, Inc. Oil Skimmers, Inc. Pace Analytical Services, Inc. PeroxyChem, LLC Pinnacle Engineering, Inc. Polystar, Inc. **Ramboll Environ** Regenesis Summit Environmental Services, Inc. SunPro TestAmerica TRC Waste Management, Inc.

Russ McDaniel - Norfolk Southern Railway Steve McNaughton - Union Pacific Railroad Lance Meister - Cross-Spectrum Acoustics, LLC Greg Menniti - Geosyntec Consultants Bernie Noonan - EMR Chris Oakes - Norfolk Southern Railway Hugh Perry - CSX Geoff Reeder - Union Pacific Railroad Ken Richardson - ARCADIS U.S., Inc. Ken Rose - OmniTRAX Gary Rozmus - GEI Consultants, Inc. Joshua Sales - Kennedy/Jenks Martina Schlauch Jones - ARCADIS U.S., Inc. Charles Thomas - BNSF Railway Leo Thorbecke - AECOM Bob Toy - Union Pacific Railroad Bill Wagner - Norfolk Southern Railway John Williams - Pace Analytical

Conterence	Organizing 1	l'eam
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Chris Barkan Jerri Lyn Beck Ziyu Chen Shray Chevli David Diol Emma Ehrenhart LB Frye Tim Gress Lu Huang

Boyan Li Tom Roadcap Kim Schlichting

Kaila Simpson Angela Stanford

Useful Contact Information

RREC 2015 Registration Desk Hampton Inn Hawthorn Suites Hilton Garden Inn 217-300-1340 217-337-1100 217-398-3400 217-352-9970 Wyndham Garden Hotel iHotel Illini Union Guest Rooms Yellow Cab 217-328-7900 217-819-5000 217-333-3030 217-355-3553