2011 Railroad Environmental Conference

25-26 October 2011

Program

RAILTEC
University of Illinois at Urbana-Champaign

American Short Line and Regional Railroad Association

American Railway Engineering and Maintenance-of-Way Association

The Railway Association of Canada

Association of American Railroads
Supporters 2011
We wish to recognize and thank our Railroad Environmental Conference - 2011 Supporters. Their financial support is an essential component in making this event a success.

10+ Year Supporters:

ONE COMPANY  Many Solutions™

Distinguished Supporter:
Conference Overview and Featured Events

**Monday, October 24th, 2011**

Exhibitor set-up 1:00pm - 5:00pm

**Tuesday, October 25th, 2011**

- Continental Breakfast 7:00am - 9:00am
- Registration Open 7:00am - 5:00pm
- Presentation Sessions 8:00am - 11:50am
- Luncheon and Supporter Acknowledgement (room 314) 11:25am - 1:20pm
- Presentation Sessions 1:20pm - 5:00pm
- Reception/Poster Presentations (Illini Union South Lounge) 5:00pm - 6:30pm

Arema Committee 13 Banquet* - Illini Union Ballroom - 2nd Floor
Banquet 7:00pm

Arema Banquet Speaker:
Robert M. Grimaila
Vice-President – Safety, Security and Environment - Union Pacific Railroad
"Railroads and the Environment: Cowboy to Spaceman"

**Wednesday, October 26th, 2011**

- AREMA Committee 13 meeting 7:00am - 8:00am
  (Colonial Room - First Floor - Illini Union)
- Continental Breakfast 7:00am - 9:00am
- Registration Open 7:00am - 5:00pm
- Presentation Sessions 8:00am - 11:40am

AAR Environmental Excellence Award (Illini Room A) 11:40am - 12:05pm
Robert Fronczak
Assistant Vice President, Environment and Hazardous Materials - AAR
Luncheon (room 314) 12:05pm - 1:25pm

Keynote Speaker:
Peter Lawson 12:05pm (room 314)
Marketing Manager Government Initiatives & Ecomagination - GE Transportation
"Ecomagination...Can Sustainability be an Economic Engine"

Presentation Sessions 1:25pm - 5:00pm
Adjourn 5:00pm

**Thursday, October 27th, 2011**

Exhibitor Breakdown 8:00am - 11:00am

*Advance registration needed for AREMA banquet

Technical Session Schedule (some sessions are concurrent)

**Tuesday**

- Plenary Session 8:10am - 10:15am, Room A
- Risk Management 10:35am - 3:00pm, Room A
- Stormwater and Wastewater 10:35am - 11:25am, Room 210
- Energy, Emissions, & Air Quality 1:20pm - 2:10pm, Room 210
- Environmental Planning of Passenger and Freight Rail Projects 2:10pm - 3:00pm, Room 210
- Aquatic Ecosystems 3:20pm - 4:35pm, Room 210
- Emergency Response and Environmental Planning 3:20pm - 5:00pm, Room A

**Wednesday**

- Remediation Panel 8:00am - 9:15am, Room A
- Analytical Testing 9:35am - 10:50am, Room 210
- Compliance 9:35am - 10:50am, Room A
- Pollution Prevention and Sustainability 10:50am - 2:40pm, Room 210
- Remediation 10:50am - 5:00pm, Room A
- Noise and Vibration 2:40pm - 3:05pm, Room 210
<table>
<thead>
<tr>
<th>Time</th>
<th>Plenary Session</th>
<th>Stormwater and Wastewater</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Welcome and Introduction&lt;br&gt;Christopher Barkan - Professor and Director of RailTEC&lt;br&gt;University of Illinois at Urbana-Champaign</td>
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<tr>
<td>8:10</td>
<td>Environmental Issues Affecting the North American Railroads&lt;br&gt;Robert Fronczak - Association of American Railroads</td>
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<td>8:35</td>
<td>Hope Is Not an Approved BMP - Lessons in Railroad Stormwater Management from the West Coast&lt;br&gt;Ross Dunning - Kennedy/Jenks Consultants&lt;br&gt;Jennifer L. Weiner - BNSF Railway</td>
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<td>9:00</td>
<td>Progress Rail PR30C Locomotive with DOC and Urea based SCR&lt;br&gt;Douglas Biagini - Caterpillar Inc.&lt;br&gt;Steve Fritz - Southwest Research Institute</td>
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<td>9:50</td>
<td>The Need for Speed – Challenges Faced While Completing the Environmental Analysis and a Service Development Application for a High-Speed Rail Project&lt;br&gt;Kelly Farrell and Meagan Hall - HDR Engineering, Inc.</td>
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<td>10:15</td>
<td>BREAK - Illini Union Room B</td>
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<td>11:00</td>
<td>Managing LNAPL in the VICinity of Water Supply Wells&lt;br&gt;Todd O’Brien and Martina Schlauch Jones - ARCADIS&lt;br&gt;Geoffrey Reeder - Union Pacific Railroad</td>
<td>PMP Approach to PCB Loading Reduction at Two Amtrak Facilities&lt;br&gt;Steve Baggett and Chris McCordell - Stantec&lt;br&gt;Andrew Ernest and Jack Schweitzer - Amtrak</td>
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Spoken Presentations - Wednesday 26 October

<table>
<thead>
<tr>
<th>Time</th>
<th>Illini Union - Room A</th>
<th>Illini Union - Room 210</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Panel Discussion: States’ Perspective on LNAPL Policy and Practice</td>
<td>Measuring Total Petroleum Hydrocarbons – TPH Chemistry 101</td>
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<td></td>
<td>Lily Barkau - Wyoming Department of Environmental Quality</td>
<td>Rock Vitale and Ruth Forman - Environmental Standards</td>
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<td>Joyce Muxie - Illinois EPA</td>
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<td>Tom Harris - Louisiana Department of Environmental Quality</td>
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<td>Kevin Lund - Michigan Department of Environmental Quality</td>
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<td>9:15</td>
<td><strong>BREAK - Illini Union Room B</strong></td>
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<td>9:35</td>
<td>Implementing a Comprehensive Industry Program on Compliance and Risk Management: A Case Study on Tank Overfill Prevention – Philosophy, Vision, Objectives, Program Structure, and Execution</td>
<td>Top 10 Assumptions to Avoid with Analytical Data</td>
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<td></td>
<td>Michael Erickson - Aleta Group</td>
<td>Paul Kurzanski - CSX Transportation</td>
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<td>10:00</td>
<td>Permitting Considerations for Bridge Repair/Replacement Projects</td>
<td>Utilizing a Portable GC/MS to Identify Background Sources during Vapor Intrusion Studies</td>
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<td></td>
<td>Robert Graham - Amtrak</td>
<td>Christine Millner, Glenn C. Millner, and Alan C. Nge</td>
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<td>Pamela Chan - AMEC Environment &amp; Infrastructure</td>
<td>Center for Toxicology and Environmental Health, L.L.C</td>
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<td>10:25</td>
<td>Environmental Training - The First Step to Compliance and Pollution Prevention</td>
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<td>Suzanne Hattenberger - BNSF Railway</td>
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<td>10:50</td>
<td>Self-sustaining Treatment for Active Remediation (STAR): Smoldering Combustion for the Treatment of Non Aqueous Phase Liquids</td>
<td>Mitigation of Light Trespass From Locomotive Headlamps Traveling Along Sloped and Curved Connector Tracks</td>
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<td>Gavin Grant and Grant Scholes - SIREM</td>
<td>Mike Weber - Parsons</td>
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<td>David Major - Geosyntec Consultants</td>
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<td>John Vidimsky - DuPont Corporate Remediation Group</td>
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<td>11:15</td>
<td>AAR Environmental Excellence Award</td>
<td>SpillIX – Introduction to a High Flow Pollution Prevention - Fueling System</td>
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<td>Robert Froneczak - Assistant Vice President, Environment and Hazardous Materials Association of American Railroads</td>
<td>Mike Mitrovich - SpillIX, LLC, Bret Lanz - Kansas State University</td>
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<td>12:05</td>
<td>LUNCH - Illini Union Room 314</td>
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<td>KEYNOTE Speaker: Peter Lawson - GE Transportation</td>
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<td>“Ecomagination...Can Sustainability be an Economic Engine”</td>
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<td>1:25</td>
<td>Sustainable LNAPL Recovery Through Groundwater Countouring - A Case Study</td>
<td>Debris and Vagrancy Problems Along an Active Right-of-Way in Queens, NY</td>
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<td>Francisco A. Perrillo, Richard P. Johns, and Cam Patterson - Keystone Environmental</td>
<td>Jeffrey Bonsteel - ARCADIS</td>
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<td>David Brottiatti - CN</td>
<td>Paul J. Kurzanski - CSX Transportation</td>
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<td>1:50</td>
<td>Remedial Process Optimization – Ongoing Process to Reduce Project Life Cycle Cost</td>
<td>Cast in Concrete but Will it Float</td>
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<td>Gary Honeyman - Union Pacific Railroad</td>
<td>Britton Luther and Leo Thorbeck - AECOM</td>
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<td>Jennifer Uhland, Oscar Sorensen, and Jeff Gentry - CH2M HILL</td>
<td>Stuart Bogkin - CSX Transportation</td>
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<td>2:15</td>
<td>Non-Conventional Approach to Reclaim and Remediate Sodium Carbonate Affected Soil</td>
<td>J.R. Padgett - Padgett Construction, Inc.</td>
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<td>Paul J. Kurzanski - CSX Transportation</td>
<td>David Poole - Earthshield / JP Specialties, Inc.</td>
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<td>2:40</td>
<td>Emerging Issues in Ethanol-based Biofuels</td>
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<td>Denise Nelson, Mark Klemmer, Martina Schlauch Jones, and Todd O’Brien - ARCADIS</td>
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<td>3:05</td>
<td><strong>BREAK - Illini Union Room B</strong></td>
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<td>3:20</td>
<td>Sustainable Debris and Vegetation Management at a Lead and Arsenic Remediation Site Norfolk Southern Corporation</td>
<td>Feasibility of a Directive Locomotive Horn</td>
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<td>Scott Keating and Carrie Mixon - GEI Consultants, Inc.</td>
<td>Jason Ross and Timothy Johnson - Harris Miller Miller &amp; Hanson Inc.</td>
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<td>Russell McDaniell - Norfolk Southern</td>
<td>Basant Parida and Abdulatif (Budi) Zanuk - QinetIQ North America</td>
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<td>3:45</td>
<td>A Sustainable Alternative Treatment System to Protect a Southern West Virginia River</td>
<td>Environmental Justice at US DOT</td>
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<td>David Patten - Norfolk Southern</td>
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<td>4:10</td>
<td>Use of Innovative Remedial Action Evaluation Tools Leads to Shutdown of Groundwater Extraction and Treatment System</td>
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<td>Jeff Gentry and Donna Lauderermich - CH2M HILL</td>
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<td>James E. Dri - Union Pacific Railroad</td>
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<td>4:35</td>
<td>Development of a Closure Strategy for Arsenic Impacts in Groundwater using a Site Conceptual Geochemical Model</td>
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<td>Kevin Peterburs, Jeff Gillow, Rhandaker Ashfaque, and Martina Schlauch Jones - ARCADIS</td>
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<tr>
<td>5:00</td>
<td><strong>Adjourn</strong></td>
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Poster Presentations

Poster presentation will be on display throughout the conference. There will be a special reception for the poster presenters in the South Lounge on Tuesday, October 25th from 5:00 to 6:45pm

Analytical Testing Methods
1. Some challenges of Sampling and Reporting Lower Level Volatile Organic Chemical’s in Ambient Air Related to Inhalation Risk Exposure Evaluations
   Will Elcoate - TestAmerica

Compliance
2. CSX NW Ohio Intermodal Facility in Wood County, Ohio
   Hugh Perry - CSX
   John Hilborn - EMHT

Emergency Response and Environmental Planning
3. Generating Meaningful Environmental Information In The Midst Of An Emergency Response
   Rock Vitale, Dennis Callaghan, and Ruth Forman
   Environmental Standards, Inc.
   Neil Carriker and William Rogers
   Tennessee Valley Authority

4. Investigation and Remediation of a Sulphur Fire at CN’s MacMillan Yard
   Sherry Eaton and Phil Muddle - Golder Associates Ltd.
   Alex Borges - CN

Energy, Emissions, and Air Quality
5. Evaluating Fugitive Dust Migration Using Computational Fluid Dynamics
   Oliver Heynes - MMI Engineering
   John Calhoun - CSX Transportation

6. Air Emissions Mitigation by Water Suppression Through the Use of a Water Cannon System
   Ben Verburg and Jon Forbort - ARCADIS
   Brian Hayden - CN

7. Responding to Requests for Locomotive Fuel Use Information
   Rick Nath - CSX
   Ken Richardson - ARCADIS

8. Study on the Strategies to Control CO2 Concentration in Passenger Car
   Youngmin Cho, Woo-Sung Jung, Ji-Yun Lee, Duck-Shin Park, and Soon-Bark Kwon - Korea Railroad Research Institute, Korea

   Youngmin Cho, Woo-Sung Jung, Jin-Sik Choi, Soon-Bark Kwon, and Duck-Shin Park - Korea Railroad Research Institute, Korea

Noise and Vibration
    Donald C. Sinclair - Sinclair Consulting

Pollution Prevention and Sustainability
11. Developing a Greenhouse Gas Inventory for Freight and Passenger Rail Operations
    Michael Laas - Gannett Fleming

12. Distributed Wind Power for the Railway
    Doug Hicks - Endurance Wind Power

13. Field Test for Treatment of Contaminated Soil around Railroad Track using Soil Flushing Method
    Jae-Young Lee, Woo-Sung Jung, Youngmin Cho and Tae-Soon Kwon - Korea Railroad Research Institute, Korea

Remediation
14. Using Data Visualization Software Tools at Site Investigation and Remediation Sites
    Rick Adams, Andy Robinson, and Monica Dupre
    ARCADIS
    Paul J. Kurzanski - CSX Transportation, Inc.

15. Subaqueous Cap Design for Sediment Remediation
    Todd Cridge, Chuck Barnes, Jeff Beckner, and Stephen Garbaciak - ARCADIS
    Matt Adkins CSX Transportation, Inc.

16. Multi-Phase Remedial Investigation/Feasibility Study/Design Studies of Non-Aqueous Phase Liquid (NAPL) Wood Treating Compounds at Former Gautier Oil Site, Gautier, MS
    Jeff Beckner, Charles Lawson, and Andrew Davis
    ARCADIS
    Matt Adkins - CSX Transportation, Inc.

17. Trout Stream Restoration After Sodium Hydroxide Derailment
    Paul Zottola and Chris Oakes - Norfolk Southern

18. Regulatory Acceptance of Improved Metrics for Evaluating LNAPL Recovery
    David de Courcy-Bower and Kate Schmitz Fogarty - AECOM

19. DNAPL Transmissivity Reduction to Obtain Remediation Endpoint
    Gary Honeyman - Union Pacific Railroad
    Cindy Donnerberg and Jeff Gentry - CH2M HILL

20. DNAPL Delineation at a Historical Derailment Site Using a Membrane Interface Probe
    Jennifer Lavenick and Guy Patrick - Golder Associates Ltd.
    David Sutherland - CN

21. Changing the Paradigm of Legacy Railyards With Residual LNAPL
    Rick Adams and Purvee Shah - ARCADIS
    Curtis Bartz and Stella Karnis - CN

22. Optimizing a Water Treatment Process to Meet Changing Conditions
    Timothy Unruh - Hatch Mott MacDonald
    Geoffrey Reeder - Union Pacific

23. The Conceptual Site Model as an Essential Tool for Stakeholder Consensus on Remedy Selection and Design
    Vibhav Mankad, Sean Coan, and Pawan Sharma
    Camp Dresser & McKee, Inc.
    James Diel - Union Pacific

Risk and Liability Management
24. A Phased Approach to CERCLA Based Investigation
    Jim McLaughlin, Ali Wright and Martina Schlauch Jones
    ARCADIS
    John Jones - Vertellus Specialties Inc.
    Geoffrey Reeder - Union Pacific

    Elizabeth Mack and Theresa Duckett
    Locke Lord Bissell & Liddell LLP
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.

**POLICE**
Champaign Police Department (Non-emergency)
82 East University Ave, Champaign IL
217-351-4545

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

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**RREC Bus Schedule**
*Between Hawthorn Suites, Hilton Garden Inn, iHotel, Hampton Inn, Holiday Inn, and Illini Union*

**Tuesday**
October 25th, 2011

- 7:00-9:00 am*
- 9:00-3:00 pm**
- 3:00-7:00 pm*

* Departing After the Banquet

**Wednesday**
October 26th, 2011

- 7:00-9:00 am*
- 9:00-3:00 pm**
- 3:00-5:30 pm*

* = running continuously between hotels and Illini Union
** = running on reduced schedule. Call registration desk (217-244-1340) for pick-up

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Save the date

Please join us for the
2012 Railroad Environmental Conference
23-24 October 2012

Mark your calendars now!
Champaign/Urbana Recommended Restaurant List
(all directions from Illini Union facing north)

Alexanders Steakhouse
202 W. Anthony Dr., Champaign, IL 61820
217-359-1789
Take Green St. West to Neil St. Turn right.
Vear right on Walnut St.
Turn left on E. Washington St.
Turn right on Neil St.
Turn left on Anthony Drive
On right hand side.

Bacaro - Italian (fine dining)
113 N Walnut St., Champaign, IL 61820-4009
217-398-6982
Take Green St. West to Neil St.
Turn right.
Bear right on Walnut St.
On left hand side.

Biaggi’s Ristorante Italiano
2235 S Neil St., Champaign, IL 61820
217-356-4300
Take Green St. West to Neil St. Turn left.
About 2 miles down on right hand side

Black Dog Smoke & Ale House (casual bar)
201 N Broadway Ave., Urbana, IL 61801
217-344-9334
Green St. East to Lincoln Ave. Turn left.
Turn right on University Ave.
Turn right on Broadway Ave. On right hand side

Destihl (Gastrobrewpub)
301 N. Neil St, Champaign, IL 61820
217-356-0301
Take Green St. West to Neil St. Turn left.
About 2 miles down on left hand side

Escobar - Native Latino
6 E Columbia Ave., Champaign, IL 61820
217-352-7467
Take Green St. West to Neil St. Turn right.
Bear right on Walnut St.
Turn left on Columbia
On right hand side.

Great Impasta - Italian
156 Lincoln Sq # D, Urbana, IL 61801
217-359-7377
Green St. East to Busey Ave. Turn left.
Turn right on W. Elm St.
Turn right on S. Broadway Ave.
Turn left at Lincoln Square
On right hand side

Jim Gould - Steakhouse (fine dining)
1 E. Main St, Champaign, IL 61820
217-531-1177
Take Green St. West to Neil St.
Turn right.
Bear right on Walnut St.
Turn left on Main St.
On right hand side.

Kennedy’s at Stone Creek
2560 S Stone Creek Blvd., Urbana, IL 61802
217-384-8111
Take Greens St. East to S. Lincoln. Turn right.
Turn left at W. Florida Ave.
Turn right at Philo Rd.
Take 1st left onto E. Colorado Ave.
Turn right on Stone Creek Blvd
On right hand side

Kofusion - Asian (Sushi)
1 E Main St # 104, Champaign, IL 61820
217-531-1166
Take Green St. West to Neil St. Turn right.
Bear right on Walnut St.
Turn left on E. Main St.
On right hand side

Radio Maria - Cajun/Spanish
119 N Walnut St., Champaign, IL 61820
217-398-7729
Take Green St. West to Neil St.
Turn right.
Bear right on Walnut St.
On left hand side.

Silvercreek - Casual fine dining
402 N Race St., Urbana, IL 61801
217-328-3402
Take Green St. East to Lincoln. Turn left
Turn right on W. University Ave.
Turn right on N. Race St.
On left hand side

V. Picasso - Tapas bar and Lounge
214 W Main St., Urbana, IL 61801
217-328-3402
Take Green St. East to Lincoln. Turn left
Turn right on W. Main St.
On left hand side at corner of Main St.
and Springfield Ave.

Public Parking
Please use the shuttle busses that are provided. Parking on campus is extremely limited.
Meters are available on South Mathews Avenue. Please note there is a two hour time restriction. There is a parking lot east of Legends (located on the corner of Sixth and Green St.) with metered parking. Inquire at registration desk for more information.

Useful Locations

Kinkos
613 South Wright St.
Champaign, IL 61820
217-344-2085

Walgreens
407 East Green St.
Champaign, IL 61820
217-344-0121

Expresso Royale Cafe
Illini Union Courtyard Cafe
217-333-7106

Cocomero (frozen yogurt)
709 South Wright St.
Champaign, IL 61820
217-328-3888

Starbucks
503 E Green St.
Champaign, IL 61820
217-344-8613

Folletts Bookstore
627 South Wright St.
Champaign, IL 61820
217-356-1368

Illini Union Bookstore
809 South Wright St.
Champaign, IL 61820
217-333-2050

T.I.S. Bookstore
707 South Sixth St.
Champaign, IL 61820
217-337-4900

Wireless Internet
Ballroom - Please take north elevator or staircase to 2nd floor.
Room 210 - Please take north elevator or staircase to 2nd floor.
Exhibitors

Accutest Laboratories
AECOM
AMEC Environment & Infrastructure
ARCADIS US, Inc.
BELFOR Environmental Century Group, Inc.
CETCO
CH2M Hill
Clean Harbors Env. Services Coleman Industrial Construction
Conestoga-Rovers & Associates CTEH
EMR, Inc.
Enkon
Envirocon, Inc.
Environmental Restoration
Environmental Works Envirosience Inc.
Gannett Fleming, Inc.
GEI Consultants, Inc.
Geo-Cleanse International, Inc.
Geosyntec Consultants
Golder Associates, Inc
HDR Engineering, Inc.
Hulcher Services, Inc.
ICF International
IMEC Technologies Inc
JRW Bioremediation, LLC.
Lancaster Laboratories
LB Foster - Friction Management
Marshall Miller & Associates
Micro-Blaze
NRC Environmental Services
Oil Skimmers, Inc.
Pace Analytical Services, Inc.
Pinnacle Engineering
Polystar, Inc
Seneca Companies
Shannon & Wilson, Inc.
Shaw Environmental & Infrastructure, Inc.
SpillX, LLC
SWS Environmental Services
Terracon Consultants
TestAmerica
URS Corporation

Planning Committee

Chris Barkan – University of Illinois
Betsy Beauchamp – TestAmerica
Chuck Cline – Marshall Miller
Sam Farnsworth – AMEC Environment & Infrastructure
Robert Fronczak – Association of American Railroads
Susan Gaudios – Accutest
Don Girard – BNSF
Melissa Godlewski – Kennedy Jenks
Suzan Gonder – Environmental Works
Kim Hagemann – University of Illinois
Martina Schlauch Jones – ARCADIS
Stella Karnis – Canadian National
Scott Keating – GEI Consultants, Inc.
Kevin Keller – HDR
Jay Martin – AMEC Environment & Infrastructure
Joanne Maxwell – Amtrak
Russ McDaniel – Norfolk Southern

Steve McNaughton – Union Pacific
Lance Meister – HMMH
Ryan Mills – BNSF
Glenn Millner – CTEH
Rick Nath – CSX
Bernie Noonan – EMR
Chris Oakes – Norfolk Southern
Geoff Reeder – Union Pacific
Ken Richardson – ARCADIS
Ken Rose – OmniTRAX
Gary Rozmus – Gannett Fleming
Richard Russell – Norfolk Southern
Lanny Schmid – Union Pacific
Oscar Sorensen – CH2M Hill
Leo Thorbecke – AECOM
John Williams – Pace Analytical

Conference Organizing Team

Chris Barkan
Abby Batis
Jerri Lyn Beck
Mary Blair
Rachel Cote
Vicki Dixon
Kim Hagemann
Kelcey Willmot

Useful Contact Information

RREC 2011 Registration Desk 217-244-1340 iHotel 217-819-5000
Hampton Inn 217-337-1100 Illini Union Guest Rooms 217-333-3030
Hawthorn Suites 217-398-3400 Yellow Cab 217-355-3553
Hilton Garden Inn 217-352-9970 U of I Golf Courses 217-359-5613
Holiday Inn 217-328-7900 Stone Creek Golf Club 217-384-6690