2006 Railroad Environmental Conference

October 24-26, 2006

Preliminary Program

ILLINOIS
Railroad Engineering Program
Conference Hours

Monday, October 23rd, 2006
Early registration and Exhibitor set-up 2:00pm - 6:00pm

Tuesday, October 24, 2006
Continental Breakfast 7:00am - 9:00am
Registration Open 7:30am - 5:00pm
Presentation Sessions 8:00am - 12:00pm
Lunch 12:00pm - 1:30pm
Presentation Sessions 1:30pm - 5:00pm
AREMA Reception/Poster Presentations 5:00pm - 7:15pm
AREMA Banquet * 7:15pm - 9:30pm

BANQUET SPEAKER:
Mark Stehly
Assistant Vice President
BNSF Railway

Wednesday, October 25, 2006
AREMA Committee 13 meeting 7:00am - 8:00am
Continental Breakfast 7:00am - 9:00am
Registration Open 7:30am - 5:00pm
Presentation Sessions 8:00am - 11:35am
Presentation of AAR Environmental Excellence Award
Lunch 12:05pm - 1:30pm

KEYNOTE SPEAKER:
Edward Hamberger
President and Chief Executive Office
Association of American Railroads
Presentation Sessions 1:30pm - 5:00pm
TRB Subcommittee on Railroad Environmental Research Issues 3:00pm - 4:00pm
Presentation Sessions 1:25pm - 5:00pm
Supporter/Exhibitor Reception 5:00pm - 6:30pm

Thursday, October 26, 2006
Continental Breakfast 7:00am - 9:00am
Presentation Sessions 8:00am - 12:05pm

*advance registration needed for AREMA dinner
Spoken Presentations

Tuesday 24 October

Energy, Emissions, and Air Quality
Railroad Air Emissions – It’s Not Just Locomotives
Mel Burda – BNSF Railway

Prospects for Dynamic Brake Energy Recovery on North American Freight Locomotives
Travis Painter – Hatch Mott MacDonald
Christopher Barkan – University of Illinois at Urbana-Champaign

Reducing Air Emissions the Smart Way – Railroad Participation in EPA’s SmartWay® Transport Partnership
Anthony Erb – EPA

An Update on California Air Regulations
Jim Diel and Brock Nelson – Union Pacific Railroad

Locomotive emissions credit trading in Ontario, Canada
Carl Gerhardstein – CSX Transportation

Chicago Climate Exchange: Monetizing Greenhouse Gas Emission Reductions in the Rail Industry
Michael J. Walsh – CCX

Storm Water and Waste Water
Denver Yard Industrial Wastewater Treatment Plant Evaluations and Remedies
Mark Ross – Union Pacific Railroad
Lisa Hennessy – Cameron-Cole, LLC

Delaware River PCB TMDL Process and Impacts to Amtrak
Craig Caldwell and Roy Dietchman – Amtrak

Waste Water Treatment Facility Improvements
Kevin Hauschildt – Norfolk Southern

Hopper Car Wash Wastewater Treatment Plant Upgrades to Meet Stringent Ammonia Standards
Kevin Hauschildt – Norfolk Southern
Stephanie Knight – The RETEC Group, Inc.

Industrial Wastewater Drain Line Gaskets – Pitfalls to Avoid
John Hasterlo – Union Pacific Railroad
Spoken Presentations

Compliance
Evaluating Total Lifecycle Environmental Costs in Compliance With the New Interpretation of the Federal Environmental Accounting Standards – FIN 47 of FASB 143
  Christopher Harvey and David Miller – TRC

Review of Current Railroad Environmental Issues
  Robert Fronczak – Association of American Railroads

SPEED: Systematic, Project Expediting, Environmental Decision-Making on the Chicago CREATE Project
  Paul Schneider – Federal Highway Administration

History of the Railroad and the Environment
  Marshall Williams – Environmental Risk Solutions

EMS
Efficiency Gains and Technology Employed in System-Wide Environmental Programs
  Ken Rose – Cameron-Cole, LLC
  Mike Grant – Union Pacific Railroad
  Bill Campbell – Farragut Systems, Inc.

Maximizing Database Applications for the CSX Transportation Environmental Compliance Assurance Review (ECAR) Program
  Richard Nath – CSX Transportation
  John Dottellis – Golder Associates, Inc.

Wednesday 25 October

Risk Management
Skeletons in the Closet: What You Don’t Know CAN Hurt You
  Richard Mohlenhoff – Amtrak

Management of Third Party Access for Environmental Assessment or Remediation
  Michael Feamster – CTEH
  Keith Brinker – CSX Transportation
  Neil Ferrone – Conrail
  Kevin Boland – River Rock Environmental, Inc.

Efficient Risk Management for Site Investigation and Remediation
  Shalene Thomas – AMEC Earth and Environmental

Voluntary Evaluation, Risk Assessment, and Closure of an Active Locomotive Fueling Facility
  Forrest Stevenson – Norfolk Southern
**Spoken Presentations**

Beyond Asbestos: The “Other” Environmental Issues Associated with Demolition
Don Girard – BNSF Railway
Paul Dial – Environmental Works, Inc.

An Expanded Role for AR020(1) to Include High-Speed, Freight, and Commuter Rails
Marilyn Duffey – The Duffey Company

**TRB**

**Pollution Prevention**
Locomotive Fueling Interface Standard (LFIS) Pilot Test
John Hasterlo – Union Pacific Railroad
Ken Rose – Cameron-Cole, LLC
Frank Bozeman – Bozeman Engineering

**Environmental Response**
Wabamun: a large scale oil spill response in a prairie lake
Luanne Patterson and Brian Pimblett – CN

It’s just grain...Non-Environmental Spills and Derailments
Dillon Magers – BNSF Railway
Paul Dial – Environmental Works, Inc.

Eunice, LA - Derailment Response
Geoff Reeder and Tim O’Brien – Union Pacific Railroad

CSXT Building Assessment and Restoration Activities in the Aftermath of Hurricane Katrina
Rick Nath – CSX Transportation
Pat Harrison – AMEC Earth and Environmental

**Industrial Redevelopment**
Construction of New York City Subway South Ferry Terminal Station - An Approach to Risk Management and Archeological Findings
Sankar Chakraborty – Metropolitan Transportation Authority

Municipal Setting Designations (MSD) – A Rational Way to Encourage Clean-up and Redevelopment
Tim Wippold and Roy Hurta – TRC

The Municipal Setting Designation
A Tool For Stressed Property (Railyard) Redevelopment
Fred Closmann – The RETEC Group, Inc.
David Cowen – McLeod, Alexander, Powel & Apffel

Interactive Session with NALGEP Railfields Initiative
(National Association of Local Governmental Environmental Professionals)
David Koch and Elaine Lippman – Terracon
**Spoken Presentations**

Not The End of the Line: Communities Working Cooperatively with Railroads on Brownfields  
David Koch – Terracon

**Thursday 26 October**

**Remediation**

Use of Solar Powered Technology at Remote Remediation Sites: Example from a Free-Phase Petroleum Product Recovery System in Mobile, Alabama  
Jennifer Hurley – BNSF Railway  
Ben Francka – Environmental Works, Inc.

CSXT Lessons Learned from Application of Remediation Amendments to Railroad Sites  
Jack Sheldon, Tim Ahrens, and Jeff LaRock – AMEC Earth & Environmental  
Paul Kurzanski – CSX Transportation

Comparison of Ultraviolet Optical Screening Methods at Hydrocarbon Contaminated Sites  
Mike Woolridge – BNSF Railway  
Jason Kirwin – WCEC

Cost Effectiveness of Horizontal Biosparging Well Application for Aerobic Co-metabolic Groundwater Remediation  
Mark Mejac, Jeanne Tarvin, and Hal Taylor – STS Consultants, Ltd.

Remediation of VOC Impact at a Former Surface Impoundment Pond  
Brent Puck and Kevin Miller – Delta Environmental Consultants, Inc.  
Jeffrey McDermott – Union Pacific Railroad

In-Situ Ozonation to Remediate Pentachlorophenol at a Former Railroad Facility  
Jay Dablow – ERM

Hurricane Rita Produced Coastal Erosion and Historical Hydrocarbon Release  
Geoffrey Reeder – Union Pacific Railroad  
Roy Hurta – TRC

Remediation of Lead-Impact Soil Using Real Time XRF Data, a Case Study  
Forrest Stevenson – Norfolk Southern  

Stabilization of Lead Impacted Soil and Debris  
Christopher Lauzon and Paul Lear  
Shaw Environmental and Infrastructure  
Paul Kurzanski – CSX Transportation
**Poster Presentations**

Poster presentations will be on display during the entire conference. There will be a special reception for poster presenters in the South Lounge on Tuesday, October 24th at 5pm.

**Compliance**
Special Considerations at Rail Yards for SPCC Plans
Kyle Russell – ERM

**EMS**
Managing Environmental Due Care for Leases to Shortline Railroads
Stephen Blair – AMEC Earth and Environmental, Inc.
Keith Brinker – CSX Transportation

Hybrid Technologies
Donna Cejalvo and Karen Dzienkowski
Railpower Hybrid Technologies Corp.

Staying One Step Ahead of the Regulators Using GPS, GIS and Web Technology Tools
Bruce Williams and Rob Smith- GeoEngineers, Inc.

**Environmental Response**
Cost Saving Approaches For Environmental Spill Response and Cleanup
James Godwin – ARCADIS
Keith Brinker – CSX Transportation

**Industrial Redevelopment**
Cultural Resources and Railroad Planning
John Vogel – Heritage Research, Ltd.

The Use of Historic Preservation in the Redevelopment of Railroad Legacy Properties
Tom Cornillie – University of Illinois at Urbana-Champaign

**Pollution Prevention**
New Technologies for Oil Spill Prevention, Response and Remediation at Railroad Facilities
Phyl Kimball – Ultratech International
Poster Presentations

Remediation

Introduction to Geophysical Methods and Their Application to Environmental Site Characterization of Railroad and Other Industrial Sites
Douglas Laymon – MFG, Inc.

What do you do with a ditch impacted from years of spills, and releases from a railcar fueling pad?
Hadley Stamm – ARCADIS

Closure Strategy for a Highly-Weathered LNAPL Site
Paul DuPuy – Norfolk Southern
James Oosterhoudt and Stephanie Knight – The RETEC Group, Inc.

Assessing and Mitigating Petroleum Hydrocarbon Seeps.
Wade Bishop – Norfolk Southern
Chuck Cline – Marshall Miller and Associates

ART In-Well Technology, an Effective and Cost-Efficient Measure to Remedy Contaminated Soils and Groundwater
Marco Odah – Accelerated Remediation Technologies, LLC

Innovative Approach to Soil and Groundwater Remediation under an Active Rail Yard
James Doesburg - Directed Technologies Drilling

Risk Management

The Vapor Intrusion Pathway: Menace or Myth?
Jay Hoskins and Keith Piontek – TRC Environmental Corporation
Champaign-Urbana

Champaign-Urbana is about 140 miles from either Chicago or St. Louis and 110 miles from Indianapolis. Served by American Airlines and Northwest Airlink, the Champaign (CMI) airport offers 7 daily flights in and out. Alternative airports include Chicago, St. Louis, Bloomington, IL and Indianapolis, IN. Champaign is also served by two daily Amtrak trains and a shuttle (Lincolnland Express) to-and-from the Chicago airports. For additional travel information visit:

www.flycmi.com
www.cumtd.com/itc/center.html
www.amtrak.com
www.lincolnlandexpress.com

**Important Phone Numbers**

CU Taxi 217-359-8634

Yellow Cab: 217-355-3553

Checker Cab: 217-367-0000

Father Time Taxi: 217-344-6008

Illini Taxi: 217-428-4444

U of I Golf Course: 217-359-5613

Stone Creek Golf Course: 217-367-3000

Hampton Inn: (217) 337-1100

Hawthorne Suites: 217-398-3400

Hilton Garden Inn: 217-352-9970
Lodging

Rooms have been blocked at three nearby hotels. Mention code “REC” to ensure room availability and obtain the lower conference rate. The Hampton Inn, Hilton Garden Inn, and Hawthorne Suites all provide transportation to-and-from the airport. There is a phone available at the airport kiosk to call.

**Hampton Inn: 217-337-1100**  
1200 W. University, Urbana, IL 61801

**Hawthorne Suites: 217-398-3400**  
101 Trade Centre Dr., Champaign, IL 61820

**Hilton Garden Inn: 217-352-9970**  
1501 S. Neil St., Champaign, IL 61820
Conference Location

Illini Rooms A, B, and C
Illini Union
1401 W. Green St.,
Urbana, IL 61801
217-333-4666
Supporters 2006
We wish to recognize and thank our Railroad Environmental Conference - 2006 Supporters. Their financial support is and essential component in making this event a success.
# 2006 Railroad Environmental Conference

REGISTRATION FORM

or register online at http://cee.uiuc.edu/railroad

<table>
<thead>
<tr>
<th>Attendee Registration ($250 before September 22nd, $300 after)</th>
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<tbody>
<tr>
<td>Speaker</td>
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<td>Poster Presenter</td>
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<td>Session Moderator</td>
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<td>AREMA Dinner</td>
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<td>Select Entree: Beef</td>
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<td>Parking Pass</td>
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<tr>
<td>(Parking is not necessary; there will be a free shuttle service between the hotels and the conference. We encourage attendees to use this rather than driving their own cars)</td>
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<tr>
<td>CEU Credits (2)</td>
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Please complete one form for each attendee, or register online at http://cee.uiuc.edu/railroad

Name ..........................................................................................................................................................................

Contact Name (if different from attendee) ..............................................................................................................

Organization ..............................................................................................................................................................

Address ......................................................................................................................................................................

City, State, Zip ..........................................................................................................................................................

Phone ..........................................................................................................................................................................

Fax ...............................................................................................................................................................................

Email Address ...........................................................................................................................................................

☐ American Express  ☐ Master Card  ☐ Visa

Name as appears on card: ...........................................................................................................................................

Card Number ................................................................................................................................................Exp. Date ...........................................................................................................................................

Registration by credit card can be faxed to 217-265-6712 or submitted online at http://cee.uiuc.edu/railroad

Please make Checks payable to: The University of Illinois
2006 RREC
1210 Newmark Lab.
205 N. Mathews Avenue
Urbana, IL 61801

2006 RAILROAD ENVIRONMENTAL CONFERENCE

205 N. Mathews Avenue
Urbana, IL 61801
Lodging
Attendees of the 8th Annual Railroad Environmental Conference are encouraged to make accommodation arrange-
ments early. Blocks of rooms will be held through September 30th. Be sure to mention code REC or they may say the hotel is full. Please make reservations directly using the numbers below. All of the hotels provide transportation to-and-from the airport. There is a phone available at the airport kiosk to call them.

Preferred Hotels:

**Hawthorne Suites**
$99 per night
101 Trade Centre Dr.
Champaign, IL 61820
217-398-3400
Code: REC

**Hampton Inn**
($Within Walking Distance$)
$79 per night
1200 W. University Ave.
Urbana, IL 61801
217-337-1100
Code: REC

**Hilton Garden Inn**
$119 per night
1501 S. Neil St.
Champaign, IL 61820
217-352-9970
Code: REC

Fees:
Early Registration (prior to September 22nd) $250
Regular Registration (September 22nd and after) $300
Speaker, Poster Presenter, Moderator $100

How to Register:
You can register online at http://cee.uiuc.edu/railroad or use the Registration Form. Complete one form per person and return it via fax to: 217-265-6712 or by mail to:

2006 RREC
University of Illinois
1210 Newmark Civil Engineering Lab, MC-250
205 N. Mathews Ave.
Urbana, IL 61801

Registration fees can be paid by credit card (MasterCard, American Express & Visa). Please make checks payable to: The University of Illinois at Urbana-Champaign and mail with your form to the above address.

PLEASE NOTE: ALL attendees should register, including presenters, moderators, speakers, supporters, and exhibitors. If you are registering as an attendee, but fit another of these categories, please mark the multiple appropriate categories on the registration form.

Cancellation Policy:
Cancellations received before October 10th, 2006 will be eligible for full refunds. After October 10th, Regular and Early registration fees already paid will be eligible for a 50% refund.

Fees:
Early Registration (prior to September 22nd) $250
Regular Registration (September 22nd and after) $300
Speaker, Poster Presenter, Moderator $100