

Conference Planners

Chris Barkan – UIUC	Keith Miller – NS
Wade Bishop – NS	Rick Nath – CSX
Chet Culley – KCS	Geoff Nokes – WC
Bob Fronczak – AAR	Bernie Noonan – EMR
John Germer – UP	Ash Oleson – CP
Don Girard – BNSF	Melissa Papworth – Kennedy Jenks
Kim Hagemann – UIUC	Geoff Reeder – UP
Carl Hanson – HMMH	Ken Richardson – AMEC
Kevin Hauschildt – NS	Ken Rose – Cameron-Cole
Martina Jones – TRC	Richard Russell – NS
Kevin Keller – Shaw	Lanny Schmid – UP
Chris LoRusso – Amtrak	David Seep – BNSF
John Lynch – RETEC	Joel Strafelda – UP
Jay Martin – AMEC	Leo Thorbecke – Earthtech
Steve McNaughton – UP	

Conference Organizers

Chris Barkan	Laura Kelley
Carla Blue	Payal Patel
Fernando Cortes	Ron Winburn
Kim Hagemann	

Useful Numbers

Holiday Inn	217-328-7900	Campus Taxi	217-355-8634
Hampton Inn	217-337-1100	Corky's Cab	217-352-3121
Sleep Inn	217-367-6000	Yellow Checker	217-355-1325
Registration Desk	217-xxx-xxx	Uofl Golf Course	217-359-5613



Co-Sponsors:



Supporters 2004

We wish to recognize and thank our Railroad Environmental Conference - 2004 Supporters. Their financial support is an essential component in making this event a success.

Kennedy/Jenks Consultants Engineers & Scientists



**Applied
Engineering &
Science**



CONFERENCE SCHEDULE

Monday, October 11, 2004

Exhibitor set-up 5:00pm-8:00pm

Tuesday, October 12, 2004

Continental Breakfast 7:00am-9:00am
 Registration Open 7:00am-5:00pm
 Presentation Sessions (Illini Room A) 8:00am-11:25am

Presentation of AAR Environmental Excellence Award

Peggy Wilhide - Vice President, Communications
Association of American Railroads 11:25am-11:50am
 Lunch 11:50am-12:50pm
 Presentation Sessions (Illini Room A) 12:50pm-4:30pm
 Poster Presentations and Reception 4:30pm-6:30pm
 AREMA Dinner & Speaker 7:00pm-9:00pm

2004 AREMA Dinner - Illini Union Ballroom

Mads Bergendorff - Senior Advisor Environment

International Union of Railways (IUC)

Wednesday, October 13, 2004

AREMA Committee 13 meeting 7:00am-8:00am
 (Room 314 Illini Union)
 Continental Breakfast 7:00am-9:00am
 Registration Open 7:30am-5:00pm
 Presentation Sessions (Illini Room A) 8:00am-12:10pm
 Lunch 12:10pm-1:30pm
 Presentation Sessions (Illini Room A) 1:30pm-5:05pm
 Exhibit Reception 5:00pm-7:00pm

Thursday, October 14, 2004

Continental Breakfast 7:00am-9:00am
 Presentation Sessions 8:00am-11:40am

PROGRAM

RAILROAD ENVIRONMENTAL CONFERENCE - 2004
 UNIVERSITY OF ILLINOIS AT URBANA - CHAMPAIGN

Tuesday 12 October

7:00 – 8:00 Registration and Continental Breakfast
 8:00 – 8:10 Welcome and Introduction

Emissions and Air Quality - Moderator: Robert Fronczak and Robert Noonan

8:10 – 8:35 Ongoing Revisions in the National Ambient Air Quality Standards, and Implications for the Railroad Industry
Mark Weitz – The RETEC Group, Inc.
David Seep – Burlington Northern and Santa Fe Railway

8:35 – 9:00 A Customer Perspective – Railroad Greenhouse Gas (GHG) Reduction Strategies
Lori Sonnier – Toyota Motor Sales, USA, Inc.
Todd Cort and Connie Sasala – Cameron-Cole, LLC

9:00 – 9:25 Trading Credits for Mobile Sources
Francisco J. Acevedo
Environmental Protection Agency

9:25 – 9:50 Hybrid Technology for the Rail Industry
Frank Donnelly and Raymond Cousineau
Railpower Technologies Corp.

9:50 – 10:10 **BREAK**

10:10 – 10:35 NOx Standards and Technology for Locomotives
David E. Brann – General Motors Corporations

10:35 – 11:00 Diesel Emissions – Heavy Duty Truck
vs. Locomotive
Roy Primus – General Electric Global Research Center

11:00 – 11:25 Tackling Rail Diesel Emissions in Europe -
For New and Existing Fleet
*Mads Bergendorff – International Union
of Railways (UIC)*

**11:25 – 11:50 Presentation of AAR Environmental Excellence
Award by Peggy Wilhide – Vice President,
Communication – AAR – Illini Room A**

11:50 – 12:50 LUNCH, 314 Illini Union

Pollution Prevention, Noise and Vibration Moderator: Grete Bridgewater

12:50 – 1:15 Report on International Railway Noise Research
from IWRN
Carl Hanson – Harris, Miller, Miller & Hanson Inc.

1:15 – 1:40 Risk Analysis of Transporting Environmentally Sensitive
Chemicals by Rail
*Pooja Anand and Christopher Barkan
University of Illinois at Urbana–Champaign*

Energy Efficiency - Moderator: Grete Bridgewater

1:40 – 2:05 Options for Improving the Energy Efficiency of
Intermodal Freight Trains
*Yung-Cheng Lai, Chris Erickson and Christopher P.L. Barkan
University of Illinois at Urbana–Champaign
Larry Milhon – Burlington Northern and Santa Fe Railway*

2:05 – 2:25 BREAK

2:25 – 2:50 Evaluation of Energy Efficiency Technologies
for Railways
Jessica Ahrens – Deutsche Bahn AG

Environmental Management Systems

Moderator: Melissa Papworth

2:50 – 3:15 Railroads and the American Chemistry Council
Responsible Care Management System
Rick Nath – CSX

3:15 – 3:40 How Do We Measure Progress?
Lanny Schmid – Union Pacific Railroad

3:40 – 4:05 Environmental Auditing at Amtrak: a Four Year
Trilogy 2000-2004
Roy Deitchman and Robert Noonan – Amtrak

4:05 – 4:30 Effective Auditing Programs
Alden Anderson – The RETEC Group, Inc.

4:30 – 6:30 Poster Reception – Illini Union South Lounge

**7:00 AREMA Dinner – Illini Union Ballroom
(advance reservations required)**

**8:00 Guest Speaker
Mads Bergendorff - International Union of Railways (UIC)**

Wednesday 13 October

Risk and Liability Management - Moderator: Kevin Keller

8:00 – 8:25 Use of Statistics to Assess Compliance with Michigan
Part 201 Cleanup Criteria
*Bradley Johnson – Golder Associates Inc.
Sarah Hession – Michigan Department of
Environmental Quality*

8:25 – 8:50 Strategic Planning for Railcar Cleaning
*Bob Schmidt and Steve McNaughton
Union Pacific Railroad
Jim Gorley – Cameron-Cole, LLC*

8:50 – 9:15 When Good Analytical QA/QC Isn't Good Enough
for the Regulatory Community
Fred Closmann and Craig Niedermeier
The RETEC Group, Inc.
Robert Werner – Burlington Northern & Santa Fe Railway

9:15 – 9:40 Pacific Northwest Rail Corridor: Rail Operation Planning
and the Environmental Process Working Hand-in-Hand
Linda Amato – The Resource Group Consultants, Inc.
Thomas White – Transit Safety Management, Inc.

9:40 – 10:05 The Strengthening Role of Institutional Controls in
“Brownfield” Property Transfers
Randall Smith and Pawan Sharma – Camp Dresser & McKee

10:05 – 10:20 BREAK

Compliance - Moderator: Don Girard

10:20 – 10:45 Review of Current Railroad Environmental Issues
Robert Fronczak – Association of American Railroads

10:45 – 11:10 SPCC Compliance Evaluation Process
Steve McNaughton – Union Pacific Railroad
Ken Rose – Cameron–Cole, LLC

11:10 – 12:10 Panel Discussion of Federal Permits Required for Railroad
Construction Projects
John Morton – HDR Engineering
Victoria Rutson – Surface Transportation Board
Roger Wiebusch – United States Coast Guard
Chandler Peter – U.S. Army Corps of Engineers
David Seep – Burlington Northern and Santa Fe Railway

**12:10 – 1:30 Lunch, 314 Illini Union, 2004 Railroad Environmental
Conference Supporter Recognition**

1:30 – 1:55 Team Approach and Agency Coordination are Keys to
Successful Environmental Permitting – BNSF
Bridge 235.66
*Michael Madson, Michelle Bissonnette, Sarah Emery,
and Shannon McCauley – HDR Engineering, Inc.*
Ken Jennison and Jim Cunningham
Burlington Northern and Santa Fe Railway

1:55 – 2:20 Cathodic Protection 101
Mike Stanfill – Burlington Northern and Santa Fe Railway
Lou Koszewski – US Tank Protectors, Inc.

2:20 – 2:45 Facility Assessment Compliance Evaluation
(FACE), 2004 Results
Christopher LoRusso – Amtrak

2:45 – 3:00 BREAK

3:00 – 3:25 Surface and Storm Water Management Issues – An Impending
Storm for US Railroads?
Ole Mersinger and Paul Putzier – The RETEC Group, Inc.
Charlie Duffy – Canadian Pacific Railways

Storm and Waste Water - Moderator: Ken Rose

3:25 – 3:50 Capital Improvement Project Delivery Methods:
Successes and Challenges
Randall Smith – Camp Dresser & McKee
Paul Kuhlmeier – Kansas City Southern Railway

3:50 – 4:15 Designing and Building a Compact, Multi-Level and
Multi-Purpose Wastewater Treatment Plant
Rory Mullenex, David Schaad and Lohman Thompson
Marshall Miller and Associates, Inc.
Kevin Hauschildt – Norfolk Southern Railway Company

4:15 – 4:40 Case Study: Treatment System Design Walnut shell Filtration
for the removal of free oil and suspended solids
J. Gregory Menniti – Chester Engineers, Inc.
John Calhoun – CSX

4:40 – 5:05 Electronic Preparation of DMRs – An Alternative to

Piles of Paper

Dillon L. Magers – Burlington Northern and Santa Fe Railway
AdriAnn T. Smith – Environmental Works, Inc.
John L. Williams – Pace Analytical Services, Inc.

5:05 – 7:00 Exhibitor Reception – Illini Union Rooms B & C

Thursday 14 October

Remediation - Moderator: Leo Thorbecke

8:00 – 8:25 Self-Sustaining Energy Source and Innovative LNAPL for High Vacuum Dual-Phase Extraction System

David Abranovic and Doug Shenk – ERM
Edwin H. Honig – Union Pacific Railroad

8:25 – 8:50 Estimating Mobile Hydrocarbon volumes from Hydrocarbon Baildown Tests

Andrew Kirkman – The RETEC Group, Inc.

8:50 – 9:15 Management of Impacted Soils During Reconstruction of a Rail Transportation Corridor

John Cavanaugh and John Moe – ERM
Alan Nye – CTEH
Michael Grant – Union Pacific Railroad
Darrell Maxey – Peninsula Corridor Joint Powers Board (Caltrain)

9:15 – 9:40 A Risk Based Approach to Derive Site-specific LNAPL Remedial Standards

David Abranovic and Doug Shenk – ERM
Edwin H. Honig – Union Pacific Railroad

9:40 – 10:00 **BREAK**

10:00 – 10:25 Free Product Recovery Without the Wait and Cost

Chuck Cline – Marshall Miller and Associates, Inc.
E.W. Chambers – Norfolk Southern Railway Company

10:25 – 10:50 Biological Treatment of PAH-Contaminated Groundwater: A Rail Yard Case Study

Christine Guay and Helene Richer
Golder Associates, Ltd.
Denis Rho – Biotechnology Research Institute
Stella Karnis – Canadian National Railway

10:50 – 11:15 Bioslurping to Get Results

Rhonda Gibson and Ted Lietzke – Earth Tech

11:15 – 11:40 Remediation of a Tank Car Maintenance Facility

Frank Myerski and Robert Rittmeyer
ENSR International
J. Jay Grove – GATX

Posters will be displayed throughout the conference. There will be a

POSTER PRESENTATIONS - SOUTH LOUNGE ILLINI UNION

special poster reception Tuesday evening from 4:30pm - 6:30pm when authors are requested to be at their posters.

Federal PSD/Title V Stationary Source Permitting Exclusion of Nonroad Engineer

Stacy Carr, Benjamin Hurst, and Eddie Al-Rayes
Trinity Consultants

PVTRAIN – The Application of Innovative Photovoltaic Technologies to the Railway Trains

Mr. A. Basili, Mr. F. Gherardini, and Mrs. F. Troiano
Trenitalia Italian Railways

Environmental Standards for the Procurement of New Rolling Stock

Henning Schwarz – Deutsche Bahn AG

Sustainability Management at German Railways – Linking
Environmental Performance with Shareholder Value
Jessica Ahrens – Deutsche Bahn AG

Creating Business Value with Records Management
Lori Upgren – The RETEC Group, Inc.

Intergrading Engineering and Environmental Actions as a Risk
Reduction Strategy
John Morton, Matt Pillard and Tom Sanders
HDR Engineering

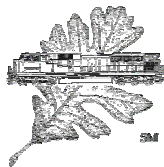
Optimizing a Groundwater Remediation System to Reduce
Remediation Operational Cost at a CN Railyard
Theodore Lietzke, Michael Wolf, Larry Voice,
and Lori VanderKam – Earth Tech

System O&M and Optimization: Use of a Routine Air Stripper Cleaning
Program to Improve Compliance and Safety
Larry Voice, Theodore Lietzke, and
Lori VanderKam – EarthTech

Case Study: Applying New Containment and Filtration
Technologies to Address Stormwater Compliance Issues
at a Major Railyard
Tad Heyman – Ultra Tech

The Evolution of Railroad Compliance with Storm Water
Discharge Permits
Glenn Carwell – Golder Associates
Jerry Cato – CSX Transportation, Inc.

Registering Greenhouse Gas Emissions Reductions Using DOE's
Revised 1605b Reporting Program
John Schideler - Futurepast, Inc.



Railroad Environmental Conference

12-14 October 2004

General Information

Local Transportation: Free shuttle buses will be running between the hotels (Holiday Inn, Hampton Inn, and Sleep Inn) and the Illini Union on the following schedule:

Tuesday, Wednesday, & Thursday	7:00 - 9:00am
Tuesday & Wednesday	4:00 - 7:00pm
Tuesday	8:00 - 10:00pm
Thursday	11:00 - 2:00pm

At all other times, the hotels have said that they will transport people using their own shuttle van if it is available. Their telephone numbers are: Hampton Inn 338-1100, Holiday Inn 328-7900, and Sleep Inn 367-6000. The main entrance to the Illini Union is on Green Street between Wright & Mathews. The Hampton Inn is walking distance to the Illini Union.

Airport Transportation: The Champaign-Urbana (Willard) airport is located on Rt. 45 (Neil St. in Champaign) approximately 6 miles south of downtown. Allow 25 minutes to drive there from campus. Both hotels offer free shuttle van service to and from the airport. Taxi's can be used for about \$10: Campus Taxi 217-355-8634, Corky's Cab 217-352-3121, Yellow Checker Cab 217-355-1328, Illini Limo 217-355-0683.

Conference Registration: Registration will be open at the Illini Rooms in the Illini Union on the University of Illinois campus beginning at 7:00am Tuesday 12 October.

Schedule: The conference program begins at 8:00am Tuesday morning and will be held in Illini Rooms A, B, C, & South Lounge of the Illini Union. There will be a continental breakfast each morning beginning at 7:00am. Lunch will be provided to conference registrants on Tuesday and Wednesday. Thursday lunch is on your own.

Attire: The recommended dress for the conference is "business casual"

AREMA Dinner: The AREMA Committee 13 dinner will be held Tuesday evening in the Illini Union. The cost for the AREMA Dinner is \$35 and advance reservations are required. Tickets can be purchased at the registration desk.

Exhibitors

Railroad Environmental Conference - 2004

Illini Union, Illini Rooms B & C

Accu Test	Pace Analytical
AMEC	Philip Services
ARCADIS	Plastic Fusion
Blackhawk Company	Portec Rail Products
Camp Dresser & McKee	Rail Power
Century Group	RETEC
Conestoga-Rovers	RMCAT Environmental Services, Inc.
CTEH	Seaman Corporation
Earth Tech	SES
ECCS	Shaw
ERM	Severn Trent Laboratories
Enkon	Summit Environmental Services
Gannett Flemming	Sunpro
Golder	Test America
HMMH	Titon Engineering
Hulcher	TKDA
Marshall Miller	Universal Remediation
MFG	URS
New Age / Landmark	X-Interchange

Map of Union

