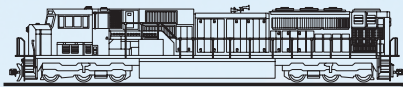


19th RAILROAD ENVIRONMENTAL CONFERENCE



24-25 OCTOBER 2017
PRELIMINARY PROGRAM



 **RAILTEC**
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN



American Short Line and
Regional Railroad Association



American Railway Engineering and
Maintenance-of-Way Association



ASSOCIATION OF
AMERICAN RAILROADS



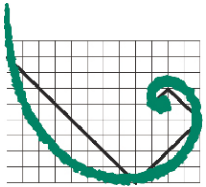
Railway Association of
Canada

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Conference Overview & Featured Events

MONDAY, OCTOBER 23rd, 2017

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

TUESDAY, OCTOBER 24TH, 2017

Registration Open 7:00am - 5:00pm Exhibit Hall

Continental Breakfast 7:00am - 9:00am Exhibit Hall

Plenary Session 8:00am - 9:25am Ballroom

Break 9:25am - 9:55am Exhibit Hall

Presentation Sessions 9:55am - 11:55am 314A/314B

Luncheon 11:55am - 1:25pm Ballroom

Presentation Sessions 1:25pm - 3:05pm 314A/314B

Break 3:05pm - 3:35pm Exhibit Hall

Presentation Sessions 3:35pm - 4:55pm 314A/314B/210

Reception/Poster Presentations 5:00pm - 6:45pm Exhibit Hall

AREMA Committee 13 Banquet* 7:00pm - 9:00pm Ballroom

Keynote: Scott Jagger - Progress Rail Services

WEDNESDAY, OCTOBER 25TH, 2017

Registration Open 7:00am - 5:00pm Exhibit Hall

Continental Breakfast 7:00am - 9:00am Exhibit Hall

Plenary Session 8:00am - 9:15am Ballroom

Break 9:15am - 9:45am Exhibit Hall

Presentation Sessions 9:45am - 11:50am 314A/314B

Luncheon 11:50am - 1:25pm Ballroom

Presentation Sessions 1:25pm - 3:05pm 314A/314B

Break 3:25pm - 3:55pm Exhibit Hall

Presentation Sessions 3:55pm - 5:35pm 314A/314B

Adjourn 5:35pm

Exhibitor Breakdown 5:30pm - 6:30pm Exhibit Hall

Trivia Night - AREMA Student Chapter 7:00pm - 10:00pm Murphy's Pub

(Murphy's Pub - 604 E Green Street, Champaign, IL 61820)

*Advance registration needed for AREMA banquet

Wireless Internet



- Choose the "IllinoisNet_Guest" wireless network.
- Open an internet browser and the UI Wireless page should load.
- Select the "Register a temporary guest account" link below the Log In.
- Fill out the form, accept the terms of use, and click Register.
- The University is legally required to collect your information before providing you with network access.
- Click the Log In button at the bottom of your confirmation page.
- For help with the Illinois wireless network, please contact the Help Desk at 217-244-7000.

Note: WiFi Registration forms are valid for a 24 hour period. A new registration form will need to be completed to gain access after the 24 hour period has expired.

Illini Union Floor Plans



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 for shelter.



Fire: Use the doors located on the west side of the building and meet near the Alma Mater statue.

POLICE



Non-Emergency Police Department Contact Information

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

Plenary Session

Moderator: TBD

Location: Ballroom (2nd Floor)

8:00 Welcome and Introduction

Christopher Barkan - University of Illinois at Urbana-Champaign

8:10 Environmental Issues Affecting the North American Railroads

Robert Fronczak - Association of American Railroads

8:35 Millennial Recruitment and Retention

Linellis Santiago-Bernier - Union Pacific Railroad

8:55 Conference Keynote Address

Improving Competitiveness through Sustainable Innovation and Strategy

Timothy Lindsey - Highlander Innovation Inc

9:25 BREAK - Exhibit Hall

Remediation

Moderators: TBD

Location: Illini Room 314A

9:55 Assessment and Remediation of a Historical Spill of Lead and Zinc Ore Concentrate

Della Berwanger - Canadian Pacific Railway
Stefan Humphries - SNC-Lavalin

10:15 Environmental Remediation Panel Review Initiative; CN's Success Story

Brad Koons - AECOM
Matthew Rousseau - GHD
Carolyn David & Stella Karnis - CN Railway

10:35 Piecing Together a Closure Puzzle – Implementation of a Closure Strategy Utilizing Site Specific Remediation Objectives

Kevin Peterburs - Union Pacific Railroad
Todd O'Briend - Arcadis U.S., Inc

10:55 Assessing NSZD for Creosote DNAPLs

Jonathon Smith, Brad Koons, Ron Holm & Randy Sillan - AECOM
Gregory Jeffries - BNSF Railway

11:15 DNAPL Baildown Testing: Identifying the Mobile Interval

Steven Gaito, Meta Bergwall & Margaret Zebley - AECOM
Yueh Chuang - BNSF Railway

11:35 UPRR Tie Treating Plant, The Dalles, OR – DNAPL Recovery Progress

Robert Toy & Anne Theriault - Union Pacific Railroad
Jeff Gentry - CH2M HILL

11:55 LUNCH - Ballroom (2nd Floor)

AAR Environmental Excellence Awards

Robert Fronczak - Association of American Railroads

Conference Presentation Summaries & Slides

http://railtec.illinois.edu/RREC/2017_Presentations.php

Sustainability

Moderator: TBD

Location: Illini Room 314B

- 9:55 **Solar PV Feasibility Study at a Rail Maintenance Facility**
Rob Bukowski & Tim Kessler - Amec Foster Wheeler
Robert Graham - Amtrak
- 10:15 **Beneficial Reuse of Insoluble Manufacturing Process Waste for Construction of a Rail Spur in East Texas**
Rick Zarate, Richard Aldredge, Don Yarborough, Brett Bristow & Edward Fasuo - Freese and Nichols, Inc
- 10:35 **Extraordinary Challenges Require Extraordinary Partnerships: Outcomes and Lessons Learned From the CP – Parks Canada Joint Initiative on Grizzly Bear Mortality**
Joe Van Humbeck - Canadian Pacific Railway
- 10:55 **Fate And Transport of Wheat in a River System: Research and Development in the Context of a Grain Derailment: Response Strategy**
Loni Waldner - Golder Associates, Inc.
Karla Graf - CN Railway
- 11:15 **Leveraging Engagement to Produce Results**
Robert Toy, Cameron McGovern & Ryan Schaefer - Union Pacific Railroad
- 11:35 **Time and Tide Wait for No Man - A Process for Rail Industry Climate Adaptation**
Frank Ricciardi & Julie Eaton - Weston & Sampson Engineers, Inc.
- 11:55 **LUNCH - Ballroom (2nd Floor)**
AAR Environmental Excellence Awards
Robert Fronczak - Association of American Railroads

Remediation

Moderator: TBD

Location: Illini Room 314A

- 1:25 Pilot Program to Reduce Dissolved Arsenic Concentrations in Groundwater Using Different Chemical Injection Methods Near an Active Spur Line in Burnaby, BC**
David Brogliatto & Mike Linder - CN Railway
Christina Chan, Francisco Perello, Cam Patterson & Jason Christensen - Keystone Environmental Ltd
- 1:45 The Use of Sustainable Remediation Tools to Support Enhanced In Situ Bioremediation Using O₂ Coupled With MNA at a Methyl Ethyl Ketone Spill**
Rick Marotte, John Jolly & Tanya Kinnard - Amec Foster Wheeler
Steven Aufdenkampe & L. Christopher Oakes - Norfolk Southern Railway
Mark Widdowson - Virginia Tech
- 2:05 Combining In Situ Chemical Oxidation and In Situ Solidification for Coal Tar – Synergy or Conflict?**
Mark Klemmer, Adam Chwalibog & Andy Baumeister - Arcadis U.S., Inc.
Heather Prentice - Consumers Energy
- 2:25 Remediation of 1,1,2-TCA via Soil Blending and Direct Injection at a Rail Car Cleaning Facility**
Timothy Adams - Roux Associates, Inc.
Dave Modrowski - Union Tank Car Company
- 2:45 The Oleophilic Bio Barrier: Sustainably Preventing Oil Sheens on Waterways**
Marc Chalfant & Shannon Dunn - Arcadis U.S., Inc
Tom Sale - Colorado State University

3:05 BREAK - Exhibit Hall

Remediation

Moderator: TBD

Location: Illini Room 314A

- 3:35 Panel: LNAPL Management: Are We Getting Science-Based Regulation?**
Stella Karnis - CN Railway
Kevin Peterburs - Union Pacific Railroad
Scott Pittenger - Norfolk Southern Railway
Charles Thomas, BNSF Railway
Mike Hawthorne, GEI Consultants
Brad Koons, AECOM
Andy Pennington, Arcadis U.S., Inc

Sustainability

Moderator: TBD

Location: Illini Room 210

- Panel: Sustainability**
John Abelson - University of Illinois
Tami Bond - University of Illinois
Jeremy Guest - University of Illinois
Yanfeng Ouyang - University of Illinois

5:15 Poster Presentation Reception - South Lounge (details on page 14-15)

Energy, Emissions & Air Quality / Environmental Management

Moderator: TBD

Location: Illini Room 314B

- 1:25 **Part of the Problem or Part of the Solution? How Canada's Railways Can Help Address Climate Change**
Michael Gullo & Enrique Rosales - Railway Association of Canada
- 1:45 **The Increasing Influence of Background Air Quality on Compliance**
Dyron Hamlin - GHD
Billy Bullock - CSX Transportation, Inc
- 2:05 **A GIS Approach to Tackling Air Emission Source Inventories**
Ashley Schroeder - EA Engineering, Science, & Technology
- 2:25 **Proactive Stakeholder Engagement to Support Decision-Making and Path Forward in the Field of Site Remediation, a Case Study**
Sylvain Hains & François Beaudoin - Golder Associates, Inc.
Frederic Gauthier & Carolyn David – CN Railway
- 2:45 **Aerial-based Survey Using Unmanned Aircraft System (UAS) Technology for PTC Compliance**
Jason Diamond - Arcadis U.S., Inc.
Erik Henderson - CSX Transportation, Inc

3:05 **BREAK - Exhibit Hall**

Passenger Rail Transit

Moderator: TBD

Location: Illini Room 314B

- 3:35 **Flood forecast Asset Response System (FfARS) pplication - Hoboken Terminal and Yard**
Mittal Patel & Kenneth Duffy - BEM Systems, Inc
- 3:55 **DC2RVA to Atlantic Gateway: Accelerating Project Components to Capitalize on Funding Opportunities**
Leandra Cleveland & Carey Wilson - HDR Engineering, Inc.
- 4:15 **Development of a Risk Management Plan, Proposed Light Rail Transit (LRT) Corridor along Canadian Pacific ROW in Calgary, Alberta**
David Poole - Dillon Consulting Limited
Joe Van Humbeck - Canadian Pacific Railroad
- 4:35 **Developing Background Concentrations of Metals and PAHs in Soil in an Urban Railroad Right-of-Way**
Todd Bridgeo & Joseph Spencer - Weston & Sampson Engineers, Inc.
- 5:15 **Poster Presentation Reception - South Lounge (details on page 14-15)**

Plenary Session

Moderator: TBD

Location: Ballroom (2nd Floor)

8:00 U.S. Freight Rail Fuel Efficiency: Past, Present & Future

Michael Iden - Union Pacific Railroad

8:25 Oxidation Reduction for Railroad Industrial Wastewater

Craig Fisher - Canadian Pacific Railroad

Alois Kostelnik - Arcadis U.S., Inc.

8:50 Salmon River Railway Bridge Expansion

Sean Stuart - Stantec Consulting Corporation

Luanne Patterson - CN Railway

9:15 BREAK - Exhibit Hall

Compliance & Permitting

Moderators: TBD

Location: Illini Room 314A

**9:45 Asbestos Exposure Assessments for Railroad Bridge Maintenance
Activities: Application, Techniques and Benefits**

Susana Lizcano - Union Pacific Railroad

Tracy Bramlett - IHST, Inc.

10:05 Virginia Avenue Tunnel Construction and Cultural Resources Mitigation

Susan Bupp - Clark/Parsons Joint Venture

William Parry - CSX Transportation, Inc

**10:25 A Fresh Look at Environmental Review Considerations for Rail
Project Planning, Siting, and Design. A Practical Understanding
and Proactive Approach.**

Chris Moelter, Alan Summerville & Hova Woods - ICF International

Derin Warren - BNSF Railway

Kari Harris - CN Railway

10:45 Panel: Recent Lessons Learned in Compliance and Permitting

11:50 LUNCH - Ballroom (2nd Floor)

Risk & Liability Management

Moderator: TBD

Location: Illini Room 314A

1:20 Lessons Learned for the Decommissioning of John Sevier Yard

David Patten - Norfolk Southern Railway

1:40 Major Changes in USEPA's Risk Assessment of PAHs

Brian Magee, Norman Forsberg & Meredith Forsberg - Arcadis U.S., Inc

Conference Presentation Summaries & Slides

http://railtec.illinois.edu/RREC/2017_Presentations.php

Environmental Response

Moderators: TBD

Location: Illini Room 314B

9:45 UPPR Mosier Derailment – Implementation of In-situ Biosparging to Achieve Remedial Action Objects in an Accelerated Time Frame

Robert Toy, Anne Theriault & Gary Honeyman - Union Pacific Railroad
Nathan Williams - CH2M HILL

10:05 Silica Monitoring during Coal Train Derailments

Dyron Hamlin - GHD
Mark Dudle - Norfolk Southern Railway

10:25 Recent Public Relations Success at the CSXT Reiman Street Property in Western NY

William Parry - CSX Transportation, Inc.
Michael Nasca & Ben Girard - Arcadis U.S., Inc.

10:45 Panel: GRP's and a Class I Perspective

Colin McWilliams - BNSF Railway	Devin Sprinkle - CN Railway
Tony Houdyshell - Canadian Pacific Railroad	Bill Parry - CSX Transportation, Inc
Steve McNealy - KCS Railway	Brian Naranjo - Norfolk Southern Railway
Michael Algotts - Union Pacific Railroad	

11:50 LUNCH - Ballroom (2nd Floor)

Environmental Response

Moderator: TBD

Location: Illini Room 314B

1:20 Derailment Response – Coordination Across Multiple Agencies to Complete Rapid Site Remediation and Regulatory Closure

Dan Dyer - CSX
Todd McFarland - Amec Foster Wheeler

1:40 Development of Job Safety Analysis Aids for Top 40 Rail HAZMAT Commodities

Bryan Naranjo & Robert Wood - Norfolk Southern Railway
Scott Skelton - Center for Toxicology and Environmental Health, LLC

Risk & Liability Management

Moderator: TBD

Location: Illini Room 314A

2:00 Per and Poly Fluoralkyl Substances (PFAS) and the Railroad Industry
George Naslas & Frank Ricciardi - Weston & Sampson Engineers, Inc.

2:20 Shipping Crude by Rail: How are the States Reacting?

Peter Masson - Antea Group

Cary Hiles - Genesee & Wyoming Railroad Services, Inc

2:40 To Lease or Not to Lease - Reducing Liability by Implementing CSX's RD-2 Prior to Accepting a Lease

Coley Campbell - CSX Transportation, Inc

Rick Adams - Arcadis U.S., Inc

3:00 Use of Screening Tools to Quickly and Efficiently Update a CSM in Glacial Deposits

Robert Noël de Tilly, Matt Burns & Peter Howard - WSP | Parsons Brinckerhoff
Frédéric Gauthier, Stella Karnis, Carolyn David & Isabelle Paquette - CN Railway

3:20 BREAK - Exhibit Hall

Environmental Analytical Data Applications

Moderator: TBD

Location: Illini Room 314A

3:50 Real-Time NAPL Delineation Tools: A Comparison of Laser-Induced Fluorescence and Optical Profilers

Barry Harding - AECOM

Steven Aufdenkampe - Norfolk Southern Railway

4:10 Application of Incremental Sampling Methodology at an Active Rail Facility in Montana

Jonathan Burton & Shannon Dunn - Arcadis U.S., Inc.

Yueh Chuang & Mark Engdahl - BNSF Railway

4:30 Less Rain, More Gain: Predictive LNAPL Recovery through Precipitation Tracking

Maureen Roth, Bryan VanDuinen & Wayne Amber - Geosyntec Consultants

Steven Aufdenkampe - Norfolk Southern Railway

4:50 A Rising Issue: Chemical Oxygen Demand in Stormwater Outfalls that Discharge to Tidally-Influenced Waterways

Karen Adams - CSX Transportation, Inc

Kevin Sullivan & Jenna Raup - TRC Engineers, Inc

5:10 Questionable Practices and the Impact to Data Quality

Erin Rodgers - Environmental Standards, Inc

5:30 Adjourn

Stormwater & Wastewater

Moderator: TBD

Location: Illini Room 314B

- 2:00 Lessons Learned from a 60" Cured-In-Place Storm Sewer Liner Installation**
Christopher Beranek - Norfolk Southern Railway
Robert Stolt & Lara Thurn - AECOM
- 2:20 Railroad Wastewater Treatment Systems Vital Signs**
Casey Felder - BNSF Railway
Chris Evensen - Arcadis U.S., Inc.
- 2:40 Dissecting Proprietary Stormwater Treatment BMPs to Develop Practical Solutions – Unbiased Research and Case Studies**
Rich Niles - Amec Foster Wheeler
Rich Mohlenhoff & Rob Graham - Amtrak
- 3:00 From Paper to Reality - Lessons Learned from CP's Internalization of Wastewater and Stormwater O&M**
Craig Fisher - Canadian Pacific Railroad
Ted Bailey - Aureus Solutions, Inc

3:20 BREAK - Exhibit Hall

Ecological Conservation

Moderator: TBD

Location: Illini Room 314B

- 3:50 CN Initiative Protects Rare Plants and Provides Nature Trail to Community**
Robert Turner - GHD
Seble Afework - CN Railway
- 4:10 Reducing Wildlife–Train Collisions with a Train-Triggered Warning System**
Jonathan Backs, John Nychka & Colleen St. Clair - University of Alberta
- 4:30 Measuring Pollinator Habitat in Rights-of-Way**
Iris Caldwell - University of Illinois at Chicago
Neil Palmer - Neil Palmer & Associates LLC
- 4:50 Brook Tunnel – Laurel Hill Creek Stream Mitigation (A Quick Repair to a Long-Term Problem)**
Sean Markey & Daniel Ley - Arcadis U.S., Inc.
Rick Nath - CSX Transportation, Inc
- 5:10 Leveraging Local Partnerships to Increase Ecological Value, Stewardship, and Reduce Costs for Compensatory Wetland Michigan**
Janet Hill - Arcadis U.S., Inc.
Steve Cheney & Kevin Rice - Union Pacific Railroad
Gretchen Herron & Doug Urry - CH2M HILL

5:30 Adjourn

Compliance

The Importance of Auditing Your Treatment, Storage and Disposal Facilities
Kimberly Vaughn - CSX Transportation, Inc
Laura Herron, Heather Fariello & Dale Hanson - Chicago Bridge & Iron

CSX Tower Compliance Program

Aubyn Bell, Brandon Gabler & Kevin Keller - HDR Engineering, Inc
Rick Nath - CSX Transportation, Inc

Ecological Conservation

Can scrap concrete ties be re-purposed to support marine habitat enhancement and incorporated into the path to closure strategy of a contaminated site? – An R&D Pilot Case in Prince Rupert, BC, Canada

David Brogliatto - CN Railway
Francisco Perello, Warren Appleton, Meagan Leicht & Michelle Murphy - Keystone Environmental

Energy, Emissions & Air Quality

Near-Zero Emissions Locomotives for Switcher and Line-Haul

Tom Mack - VeRail Technologies, Inc

Environmental Analytical Data Applications

Use and Utility of Web-based Mapping Applications for Railroad Operations, Remediation, and Incident Response

Colin McWilliams - Kennedy/Jenks

Environmental Management

VAT Noise and Vibration Construction Monitoring Results

Ahmed El-Aassar - Gannett Fleming, Inc
Rich Nath - CSX Transportation, Inc

Data Information Management Systems (DIMS) to support Operational and Tactical Decision-Making

Jason Coyle - Wenck Associates, Inc
Marin Stolmack - Dynamis, Inc

Environmental Response

Pending PHMSA Regulations and the 'FRPs of Rolling Stock'

Colin McWilliams - Kennedy/Jenks

Passenger Rail & Transit

Study on Technical Requirement for Building a Climatic Testing System for Cooling and Heating Performance Test of Rail Car

Youngmin Cho, Tae-Wook Kim, Duckshin Park, Soon-Bark Kwon & Hee-Up Lee - Korea Railroad Research Institute

Remediation

Understanding NAPL Seepage: A Robust CSM Leads to Cost-Effective Sheen Mitigation
Marc Chalfant & Shannon Dunn - Arcadis U.S., Inc

Controlled Release Environmental Reactants - Green and Sustainable Approach to In Situ Remediation

Lindsay Swearingen - Specialty Earth Sciences, LLC

Using Real-Time Data to Guide Field Investigation Activities

Shelly Young, Randy Sillan & Craig Niedermeier - AECOM
Yueh Chuang - BSNF Railway

The Live Pin - Excavation Shoring Real Time Load Monitoring

Paul Bracken, Sam Farnsworth & Mark Klemmer - Arcadis U.S., Inc
William Parry - CSX Transportation, Inc
John Geary - Viasant
Doug Brunot - Mabey

Risk & Liability Management

Crude-by-Rail Risk Assessment Using Computational Models: A Case Study Using the Proposed Shell Puget Sound Refinery Anacortes Rail Unloading Facility
Matthew Horn - RPS ASA

Stormwater & Wastewater

Waste Water and Storm Water – Big Data to Reduce Risk, Increase Compliance & Support Rail Operations!

Chad Prior - BNSF Railway

Neale Jentsch - Casne Engineering

Wastewater Treatment Facility Replacement, CSX Willard Yard

Eliezer Livay & Brian Kardos - Gannet Fleming, Inc

Mike Mendoza - CSX Transportation, Inc

BNSF Railway's Storm Water Best Way Program: Moving Beyond Compliance

Edward Phillips & Laura Fiffick - BNSF Railway

Timothy O'Brien, Dempsey Ballou & Christopher Haney - Gresham, Smith and Partners

Sustainability

Importance of Defining Initial Flood-Risk Thresholds in Resilient Infrastructure Adaptation Planning

Amy Krebs & Stuart Adams - Stantec Consulting Corporation

AREMA Trivia Night

AREMA TRIVIA NIGHT

Where: Murphy's Pub

604 E Green Street, Champaign, IL 61820

When: Wednesday October 25th

Social Hour 7pm | Trivia 8pm

Food and drinks provided

Teams of 4-6 people

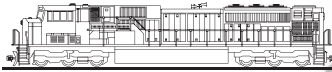
Open to all AREMA members or sign up if you are not a member.

Hosted by AREMA Committee 13 & UIUC AREMA Student Chapter

Save the Date - 2018 RREC

October 23-24, 2018

20th RAILROAD ENVIRONMENTAL CONFERENCE



Exhibitors

AECOM	Environmental Works	National Response Corporation
Alpha Analytical	EnviroScience, Inc.	Oil Skimmers, Inc
Amec Foster Wheeler, Inc	ESC Lab Sciences	Pace Analytical Services
AquaBlok, Ltd	Eurofins Lancaster	PeroxyChem
Arcadis	Laboratories Environmental	Pinnacle Engineering
BELFOR Environmental	Evolution Sorbent Products	Polystar Containment
Cardno	Gannett Fleming	Ramboll ENVIRON
Cascade Drilling	GEI Consultants	REGENESIS
Center for Toxicology and Environmental Health, LLC	Geo-Solutions, Inc	RPS
Century Group, Inc	Geosyntec Consultants	Safeguard Environmental Services
CH2M Hill	GHD	SGS Accutest
Chase Environmental Group	Golder Associates	StormwaterRx
Clean Harbors	HalenHardy, LLC	SunPro
Dewberry	Haz-Mat Response, Inc	Tank Engineering and Management Consultants
Directional Technologies, Inc	HDR Engineering	TestAmerica
EA Engineering, Science & Technology	HEPACO	Tetra Tech
Elastec, Inc	Hulcher Services	TRC Companies, Inc
Environmental Management Specialists	ICF International	Waste Management
Environmental Restoration	Industrial Maintenance Group	WSP USA, Inc
	ISC Water Solutions	
	JRW Bioremediation	
	Marion Environmental, Inc	

Planning Committee

Meaghan Atkinson - CSX Transportation, Inc	Joanne Maxwell - Amtrak
Chris Barkan - University of Illinois	Russ McDaniel - Norfolk Southern Railway
Betsy Beauchamp - TestAmerica	Steve McNaughton - Union Pacific Railroad
Francois Beaudoin - Golder Associates	Lance Meister - Cross-Spectrum Acoustics, LLC
Eric Brown - CH2M Hill	Gregg Menniti - Geosyntec Consultants
Craig Caldwell - Amtrak	Mark Murphy - GHD
Michael Clift - BNSF Railway	Chris Oakes - Norfolk Southern Railway
Chuck Cline - Cardno	Luanne Patterson - CN Railway
Jay Diebold - Golder Associates	Hugh Perry - CSX Transportation, Inc
Dan Dyer - CSX Transportation, Inc	Geoff Reeder - Union Pacific Railroad
Sam Farnsworth - Amec Foster Wheeler	Ken Richardson - Arcadis U.S., Inc
Craig Fisher - Canadian Pacific Railroad	Gary Rozmus - GEI Consultants
Bob Fronczak - Association of American Railroad	Rich Russell - Norfolk Southern Railway
Stella Karnis - CN Railway	Joshua Sales - Kennedy/Jenks Consultants
Scott Keating - GEI Consultants	Martina Schlauch Jones - Arcadis U.S., Inc
Kevin Keller - HDR Engineering, Inc.	Devin Sprinkle - CN Railway
John Kind - CTEH	Amanda Taylor - AECOM
Jeffrey LaRock - TRC Companies, Inc	Leo Thorbecke - TRC Companies, Inc
Leroy Leonard - Geosyntec Consultants	Bob Toy - Union Pacific Railroad
Kevin Maggay - BNSF Railway	Lara Thurn - AECOM
Jay Martin - Amec Foster Wheeler	Bill Wagner - Norfolk Southern Railway
	John Williams - Pace Analytical Services