### Schedule Overview

**Tuesday, 1 November**

- **Pre-Conference Workshop** 8:30 - 3:00 PM  
  Chancellor Ballroom

**Wednesday, 2 November**

- **Registration** 7:00 - 5:30 PM  
  Heritage Hall Lobby
- **Plenary Session** 8:00 - 9:30 AM  
  Illinois Ballroom
- **Break** 9:30 - 10:00 AM  
  Heritage Hall
- **Concurrent Sessions** 10:00 - Noon  
  Chancellor/AlmaMater
- **Lunch** Noon - 1:25 PM  
  Illinois Ballroom

**AAR Environmental Excellence Awards**

- **Concurrent Sessions** 1:25 - 2:45 PM  
  Chancellor/AlmaMater
- **Break** 2:45 - 3:15 PM  
  Heritage Hall
- **Concurrent Sessions** 3:15 - 4:35 PM  
  Chancellor/AlmaMater
- **Poster Presentation Reception** 4:35 - 6:15 PM  
  Heritage Hall
- **AREMA Committee 13 Banquet** 6:15 - 8:30 PM  
  Illinois Ballroom

**Thursday, 3 November**

- **Registration** 7:00 - 3:10 PM  
  Heritage Hall Lobby
- **Plenary Session** 8:00 - 9:30 AM  
  Illinois Ballroom

**Keynote: Alissa Yakali - Honda Development & Manufacturing of America**

- **Break** 9:30 - 10:00 AM  
  Heritage Hall
- **Concurrent Sessions** 10:00 - Noon  
  Chancellor/AlmaMater
- **Lunch** Noon - 1:25 PM  
  Illinois Ballroom
- **Women’s Networking & Outreach Lunch** Noon - 1:25 PM  
  Quad Room
- **Concurrent Sessions** 1:25 - 3:10 PM  
  Chancellor/AlmaMater
- **Optional Tours** 3:15 - 4:45 PM  
  see page 12

### 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.
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 24 hours.
Free conference parking is available in the iHotel Illinois Conference Center Northeast Parking Lot. Enter from St. Marys Road. Overflow parking is available across the street in the Southwest State Farm Center Parking Lot.

Shuttle Service will be provided between iHotel • Home2 Suites • Holiday Inn • Hilton Garden Inn • Homewood Suites Transportation will be provided via a white 15 passenger bus.
Wednesday, 2 November

Plenary Session
Location: Illinois Ballroom

8:00 Welcome and Introduction
Christopher Barkan - University of Illinois Urbana-Champaign

8:10 Lambert’s Point Terminal - A Living Shoreline Success Story
Adam Motsinger & Troy Carpenter - Norfolk Southern
Andrew Dietrich & Alaurah Moss - Dewberry

8:35 Environmental Issues Affecting North American Railroads
Theresa Romanosky & Devin Sprinkle - Association of American Railroads

9:05 FRA’s Climate and Sustainability Program
Michael Johnsen - Federal Railroad Administration

9:30 Break - Exhibit Hall

Sustainability and Resilience
Moderator: Becky Hensley - CSX & Gary Rozmus - GEI Consultants
Location: Chancellor Ballroom

10:00 What We’ve Learned: Planet Tracks, the Industry’s First Employee-led Business Resource Group for Environmental Sustainability
Craig Ingrisano & Laura Pollack - Union Pacific Railroad

10:20 Planning for the Impacts of Climate Uncertainty and Extreme Weather Events for Rail Infrastructure: Increasing Flood Resiliency through Low Impact Development
Shelley Hazen & Gary Rozmus - GEI Consultants

10:40 Resilience Design in Transit Infrastructure
David Burrows, Huzefa Irfani & Aly Amr - Gannet Fleming

11:00 The Future of Energy and Rail Decarbonization
Michael Cleveland - Progress Rail Services

11:20 Taking the Lead: How Rail Will Meet its Climate Commitments by Partnering with Environmentally Sustainable Technologies While Creating Socio-Economic Solutions
Jeff Bean - Viridi Parente

11:40 Sustainability and Resiliency Framework
Kristen Stevens - Union Pacific Railroad
Jennifer Uhland - Jacobs

12:00 Lunch
Location: Illinois Ballroom

AAR Environmental Excellence Awards
Devin Sprinkle - Association of American Railroads
2022 RREC Presentations will be available for download at: https://rrec.railtec.illinois.edu/

The Whova app allows you to network with other attendees, create your own agenda of sessions, view exhibitor information, access floor plans, keep up to date with conference events and much more!

Download Whova from the App Store or Google Play and then search for the 24th Railroad Environmental Conference and enter the invitation code RREC202211

Environmental Management Systems
Moderator: Joanne Maxwell - Amtrak & Todd McFarland - WSP
Location: Alma Mater

10:00 Electronic Data Management/System to Improve Compliance at Rail Wastewater Treatment Plants
Sandy Suver - Union Pacific Railroad
Dan Mac Gregor - Jacobs

10:20 Beyond the Weather: Ground-Level Environmental Monitoring and Warning System
Daniel Jobin - Kije Sipi Ltd

10:40 Using Data to Drive Asbestos Management for Railroad Assets
Melissa Schop & Nicole Lenczowski - Union Pacific Railroad
Adam Hagedorn - GHD

11:00 Embracing Digital Transformation for Environmental Data Management
Brandon Barlow & Luke Jacobs - Encamp

11:20 Lessons Learned From The Help Desk: Key Takeaways for Your Wastewater and Compliance Programs
Lester Dupes & Erin Rodgers - Environmental Standards, Inc.

11:40 Best Practices for Lowering Costs from Waste Truck Hauling Operations
Gregory Calhoun - Norfolk Southern
Wednesday, 2 November

**Sustainability - Advanced Research Projects Agency-Energy**
Moderator: Tyler Dick - University of Texas at Austin
Location: Chancellor Ballroom

1:25 **Overview of the Department of Energy ARPA-E LOCOMOTIVES Program**
Robert Ledoux - Department of Energy ARPA-E

1:45 **LOCOMOTIVES Project 1: Advanced Locomotive Technology and Rail Infrastructure Optimization System (ALTRIOS)**
Jason Lustbader - National Renewable Energy Laboratory

2:05 **LOCOMOTIVES Project 2: Synthesis of COnsists as Rolling Energy micro-grids (SCORE)**
Jay Martin - Pennsylvania State University

2:25 **LOCOMOTIVES Project 3: Multi-Decadal Decarbonization Pathways for U.S. Freight Rail**
George List - North Carolina State University

2:45 **Break - Exhibit Hall (Heritage Hall)**

**Sustainability - Advanced Research Projects Agency-Energy**
Moderator: Tyler Dick - University of Texas at Austin
Location: Chancellor Ballroom

3:15 **LOCOMOTIVES Project 4: Comprehensive Impact and Cost Assessment Framework of Carbon Lowering Approaches for the US Rail Freight System**
Pablo Durango-Cohen - Northwestern University

3:35 **Panel Discussion - Modeling to Support Rail Decarbonization: Needs, Challenges and Opportunities**
Michael Cleveland - Progress Rail Services
Steven Fritz - Southwest Research Institute
Michael Johnsen - Federal Railroad Administration
Siddiq Khan - Department of Energy Vehicle Technologies Office
Mike Swaney - BNSF Railway

4:35 **Poster Reception**
Location: Heritage Hall (see page 14 for additional details)

6:15 **AREMA Committee 13 Banquet**
Location: Illinois Ballroom (Additional Ticket Required)

Banquet Keynote Address:
Successful Supplier Engagement
Alissa Yakali - Honda Development & Manufacturing of America
Compliance for Operating Facilities
Moderator: Leo Thorbecke - TRC Companies, Inc.
Location: Alma Mater

1:25 Salt Management Opportunities for a Commuter Rail Network
Heather McClintock - WSP

1:45 Maintaining Compliance at Idled Facilities While Reducing Expenses
Robert Scoble - Norfolk Southern

2:05 Maintaining Compliance and Adapting Program Management Tools for New Technologies
Robert Hagler - Arcadis U.S., Inc.
Corey Aten - BNSF Railway

2:25 Best Practices for Addressing Historical Construction & Demolition on Railroad Properties Across Multiple States
Bryan Salley - Norfolk Southern
Glen Grissom - SCI Engineering

Remediation
Moderators: Stella Karnis - CN Railway & Jay Diebold - WSP
Location: Alma Mater

3:15 Use of Continuous Monitoring In-Situ Sensors for Sustainably Monitoring and Optimizing Remedies
Lauren Mancuso - Union Pacific Railroad
Carol Mowder & Tom Simpkin - Jacobs

3:35 Using a Risk-Based Approach to Achieve Net Environmental Benefit During Derailment Remediation
Kristjana Zoras - GHD
Mike Linder - CN Railway

3:55 Is Vapor Intrusion Really an Issue at Petroleum Hydrocarbon Impacted Sites?
Daniel Dyer - CSX
Robert Uppencamp - Arcadis U.S., Inc.

4:15 Tracking Sustainable Remediation
Lauren Mancuso - Union Pacific Railroad
Betsy Collins & Carol Mowder - Jacobs

Save the Date | 14-15 November 2023
### Thursday, 3 November

#### Plenary Session

**Moderator:** Devin Sprinkle - Association of American Railroads  
**Location:** Illinois Ballroom

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| 8:00  | **Under the Bridge: Protecting and Restoring Fish Habitat During Railroad Bridge Construction** | Kevin Rice - Union Pacific Railroad  
| 8:25  | **Keynote Address:** Equity and Justice at EPA Today                  | Matthew Trejada - United State Environmental Protection Agency |
| 8:55  | **Sponsor Acknowledgement**                                          | Christopher Barkan - University of Illinois Urbana-Champaign |
| 9:30  | **Break - Exhibit Hall**                                             |                                                                           |

#### Sustainability and Resilience

**Moderators:** Mark Coleman - TRC Companies, Inc.  
**Location:** Chancellor Ballroom

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| 10:00 | **Driving ESG Impact through Supplier Engagement:**  
Class I Panel Discussion | Devin Sprinkle - Association of American Railroads  
David Smat - BNSF Railway  
François Bélanger - CN Railway  
Raghu Chatrahi - CSX  
Glen Wilson - CP  
Kayden Howard - Kansas City Southern Railway  
Josh Raglin - Norfolk Southern  
Mark Lutz - Union Pacific Railroad |
| 10:20 | **NMR Geophysics for High Resolution Site Characterization, CSM Refinement, and Remedial Design Optimization** | Bradley Cross - ERM |
| 10:40 | **Conceptual Site Model and Cleanup Modifications Responding to Nature-Based Extreme Conditions** | Dora Chiang, Kevin Howard & Todd McFarland - WSP  
Steven Aufdenkampe & Dan Hunt - Norfolk Southern |
| 11:00 | **From Railbed to BBQ - A Case Study of a Mile-Long Remediation Project in Murphysboro, Illinois** | Matthew Laub & Erica Foley - AECOM  
Joe Phelps - CN Railway |

#### Incident Management

**Moderators:** Bryan Naranjo - Norfolk Southern & Derek Hubbartt - GHD  
**Location:** Chancellor Ballroom

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| 11:20 | **Environmental Response for Wildfire in Lytton, British Columbia**  | Molly Corrigan - GHD  
Mike Linder - CN Railway |
| 11:40 | **Drain Identification Prior to Potential Emergency Response**       | Christopher Hunsicker - Norfolk Southern |

### Lunch

**Location:** Illinois Ballroom

**Women’s Networking & Outreach Luncheon**  
**Location:** Quad Room
Plenary Session
Moderator: Devin Sprinkle - Association of American Railroads
Location: Illinois Ballroom
8:00 Under the Bridge: Protecting and Restoring Fish Habitat During Railroad Bridge Construction
Kevin Rice - Union Pacific Railroad
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9:30 Break - Exhibit Hall
Sustainability and Resilience
Moderator: Mark Coleman - TRC Companies, Inc.
Location: Chancellor Ballroom
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Devin Sprinkle - Association of American Railroads
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Steven Aufdenkampe & Dan Hunt - Norfolk Southern
10:40 From Railbed to BBQ - A Case Study of a Mile-Long Remediation Project in Murphysboro, Illinois
Matthew Laub & Erica Foley - AECOM
Joe Phelps - CN Railway
11:00 Know Your LNAPL Regulatory Program - UST vs State Voluntary
Jim Brannen - Union Pacific Railroad
Rick Edwards - Jacobs
11:20 Sustainable and Resilient Remediation at the Intersection of Climate Variability and Contaminated Site Management
Kevin Morris - ERM
11:40 Railroad Demolition and Remediation, a Sustainable Solution
Ryan Jorrey, Stephanie Wernette, Christopher Romanoski & Leo Thorbecke - TRC Companies, Inc.
Tom Kefalas - LA Metro
12:00 Lunch
Location: Illinois Ballroom
Women’s Networking & Outreach Luncheon
Location: Quad Room
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Incident Management
Moderators: Bryan Naranjo - Norfolk Southern & Derek Hubbartt - GHD
Location: Chancellor Ballroom

1:25 A Tank Car Fire for the Fourth of July - Rapid Site Characterization and Remediation Following the Release of Acrylonitrile
Todd McFarland, Tom Hensel, Kevin Howard - WSP
Matt Adkins - CSX

1:45 Facility Response Plan (FRP) Preparedness Is Beneficial to Real World Responses
Nathan Williams - Norfolk Southern

Wastewater Management
Moderator: Lara Thurn - AECOM
Location: Chancellor Ballroom

2:05 Why Your Intermodal Maintenance Pads Need a Roof Over Their Heads
Divya Malyala & Lara Thurn - AECOM
Christopher Beranek - Norfolk Southern

2:25 Upgrading a Wastewater Treatment Plant to meet Challenges in Sustainability, Efficiency, and Regulatory Policy
Beau Perry - TRC Companies, Inc.
Seble Afework, Syed Tibu & Suzanne Carlson - CN Railway

2:45 The Largest, Environmentally Proactive, and Future Forward Industrial Wastewater System Renewal in Railroad History
Nicole Lenczowski - Union Pacific Railroad
Matthew Flint - Arcadis U.S., Inc.

3:05 Break - Heritage Hall
Technical Presentations Adjourn

3:15 Optional Tours
Champaign-Urbana Mass Transit District: Hydrogen Production Station
Illinois Fire Service Institute Research and Innovation Lab (RAIL)

Emergency Information

Dial 911 for assistance.
The conference location is: iHotel, 1900 S First St, Champaign, IL 61820

Carle Foundation Hospital
OSF Heart of Mary Medical Center
611 West Park Street, Urbana IL
1400 West Park Street, Urbana IL
217- 383-3311
217- 337-2000

Non-Emergency Police Department Contact Information
Champaign
Urbana
University of Illinois
82 East University Ave
400 South Vine Street
1110 W Springfield Ave
217- 351-4545
217- 384-2320
217- 333-1216

Urbana IL
Urbana IL
Urbana IL

Environmental Permitting and Planning
Moderator: Kevin Keller - HDR
Location: Alma Mater

1:25  **From an Individual Permit to No Permit Required - The BNSF Bridge in Victorville, California**  
Lisa Patterson, Dava Kaitala, Daniel Smith & Luc Truong - Jacobs  
Alan Bloomquist - BNSF Railway

1:45  **Managing Multiple Perspectives & Expectations: Keeping CN’s Milton Logistics Hub on Track**  
Chris Powell & Parker Dickson - Stantec  
France Moreau - CN Railway

2:05  **BNSF Sabine River Bridges Project - Keys to a Successful Section 106 Process**  
Lori Price & Michael Chidley - Jacobs  
Mike Herzog - BNSF Railway

2:25  **Compliance Canines: Remote Sensing and Cadaver Dog Cemetery Investigation for a CN Bridge Replacement Project**  
Amber Robinson & Zachary Overfield - HDR  
Kari Harris - CN Railway

Tour Information:
Shuttles will depart outside Heritage Hall  
Pre-registration required, see registration desk for more details.

Emergency Information

AED: Located in the pantry between Excellence Room and Innovation Room.

Tornado: Guests will be escorted to the inside walls of the Illinois Ballroom, Chancellor Ballroom, and Heritage Hall.

Fire: Evacuate via the closest exit and gather on the far east side on the conference center parking lot.

Run > Hide > Fight  
Run: Leaving the area quickly is the best option if it is safe to do so.  
Hide: When you can’t or don’t want to run, take shelter indoors.  
Fight: As a last resort, you may need to fight to increase your chances of survival.
Wednesday, 2nd November @ 4:35 PM Location: Heritage Hall

10P Archaeological Removal of Two Civil War Graves from CSXT ROW
Thaddeus Bissett - WSP
Coley Campbell - CSX

4P Evaluation of MFR and ZVI as Treatment Alternatives for the Organochlorine Herbicides Dicamba and Acetochlor
Scott Pittenger & Steven Aufdenkampe - Norfolk Southern
Paul Dombrowski & Prasad Kakrla - ISOTEC

5P Getting Down to the Nitty-Gritty of Our Pump Problem
Shalabha Kalliath, Lara Thurn, Robert Stolt & Smuel Karlovich - AECOM
Christopher Beranek & Christopher Hunsicker - Norfolk Southern

7P How Clean is Clean for Plastic Pellet Incident Response?
Andrew McManus, Shannon Dunn, Jaceque Powell - Arcadis U.S., Inc.

11P Invasive Species (Florida Snowbirds) and Endangered Species Can Co-Exist: Navigating the ESA and EFH while Restoring Passenger Rail Service to Florida
Shannon McMorrow & Charlene Stroehlen - WSP

13P KCS Conservation Initiative Creates Monarch Butterfly Habitat Along Central Flyway
Rebecca Heslep, Jeremy Henson & Roy Hurta - Arcadis U.S., Inc.
Nick Pryor - Kansas City Southern Railway

8P Lessons Learned from a Successful Residential Remediation
Kristen Stevens - Union Pacific Railroad
Amy Goldberg Day - Arcadis U.S., Inc.

6P Partnering with City of Chattanooga to Achieve Stormwater Separation Goals
Divya Malyala, Lara Thurn, Robert Stolt, Vineeth Panicker - AECOM
Christopher Beranek - Norfolk Southern

1P Petroleum Storage Tank Emergency Response Plans (TANK ERPS) and Stormwater Infrastructure & Drainage (SID) Maps
Richard Johns, Christina Chan & Jill Lam - Keystone Environmental
Mike Linder, Suzanne Carlson & Reid Paulson - CN Railway

14P Pollinator Conservation Opportunities and Lessons Learned from Utility and Highway Rights-of-Way
Megan Petraitis & Iris Caldwell - University of Illinois at Chicago

3P Restorative Remediation – Using Brownfields to Bring Nature Back into Our Urban Environments
François Beaudoin - GHD

12P Submersible Robotic Tank Inspection, API 653
Nick Pryor - Kansas City Southern Railway
Brian Kinsley - Square Robot
Gary Johnson - Transportation Industrial

9P Sustainable Approach to Extractable Analysis in the Laboratory
Johnny Mitchell - Pace Analytical Services, Inc.

2P Wastewater Treatment System Operational Cost Savings - Stormwater Diversion
Christina Chan, Antonio Gunardi, Francisco Perello & Mathew Barker - Keystone Environmental
Mike Linder - CN Railway
Chris Brown - Matcon Environmental
## Planning Committee

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<tr>
<td>Christopher Barkan</td>
<td>University of Illinois</td>
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<td>Trish Clary</td>
<td>Union Pacific Railroad</td>
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### 2022 Railroad Environmental Conference

University of Illinois Urbana-Champaign  
iHotel Illinois Conference Center  
1900 S First Street, Champaign, IL 61820  
217-300-1340 | rrec-conf@illinois.edu