Virtual Railroad Environmental Seminar

Preliminary Program
27-28 October 2020
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Members of the Railroad Environmental Community,

We are committed to continuing our mission of supporting the advancement of the railroad environmental community during this unprecedented pandemic. As such, the Rail Transportation and Engineering Center (RailTEC) at the University of Illinois at Urbana-Champaign is pleased to announce the 2020 Virtual Railroad Environmental Seminar (vRRES). vRRES will feature two half-days of technical presentations containing the top-quality content that has been associated with RREC since the first small gathering of 150 railroad environmental professionals in 1999. We look forward to welcoming attendees from throughout North America and abroad, including railroaders, consulting engineers, environmental control equipment suppliers, regulators, legal professionals, academics and other rail transportation professionals.

The vitality of the seminar program benefits from the excellent input provided by representatives from the railroads, environmental engineering, and supply firms who participate in the RREC/vRRES Planning Committee. Each year this group considers topics of particular interest to the railroad industry, reviews the submitted abstracts, and selects presentations based on their quality, timeliness, and relevance. The goal is coverage of the broad array of current and emerging subjects of interest to railroads. An important criterion is innovative new ideas and results with potential to benefit and improve railroad environmental practice. The vRRES organizing team has strived to achieve the proper balance with this year’s selection of presentations in the following topic areas:

- Compliance & Permitting
- Ecological Protection & Conservation
- Energy, Emissions & Air Quality
- Environmental Data Collection & Applications
- Environmental Management
- Environmental Response
- Remediation
- Risk & Liability Management
- Stormwater & Wastewater
- Sustainability, Climate Resilience & Engagement
- Environmental Response

vRRES provides a forum for attendees to meet with colleagues, clients, regulators, researchers, and other members of the railroad environmental community to learn about new techniques and technologies, exchange views, catch up on regulatory and legislative developments, and generally stay in touch with the direction of the railroad industry’s environmental programs.

On behalf of RailTEC at Illinois, I would like to extend an invitation to everyone interested in railroad environmental performance, practices, and engineering to attend this year’s seminar. I hope you can attend.

Sincerely,

Chris Barkan
Professor
George Krambles Director - RailTEC
University of Illinois at Urbana-Champaign
Overview

Meeting Location:
Virtual hosted on GoToWebinar

Registration Fees:
Non-PDH No Charge
PDH $50

Conference Website and Online Registration:
rrrec.railtec.illinois.edu

Tuesday, October 27th, 2020
Presentation Sessions 10:00am - 11:20am Central Time
Break 11:20am - 11:50am Central Time
Presentation Sessions 11:50am - 1:30pm Central Time
Adjourn 1:30pm Central Time

Wednesday, October 28th, 2020
Presentation Sessions 10:00am - 11:10am Central Time
Break 11:10am - 11:40am Central Time
Presentation Sessions 11:40am - 1:00pm Central Time
Adjourn 1:00pm Central Time

2020 Virtual Railroad Environmental Seminar
Rail Transportation and Engineering Center (RailTEC)
University of Illinois at Urbana-Champaign
1239B Newmark Civil Engineering Laboratory
205 N. Mathews Avenue, Urbana, IL 61801
217-300-1340 | rrrec-conf@illinois.edu

Become a 2020 vRRES Sponsor

$275

• Logo Display on the electronic program, vRRES/RREC Website, and throughout the virtual seminar.

• Sponsor Acknowledgement at the beginning of the seminar each day.

• Attendee Email List provided for all registered attendees that grant permission to share their information.

Register at https://rrrec.railtec.illinois.edu/exhibitor-sponsor/
## Tuesday 27 October Presentations

### PLEASE NOTE TIME ZONE: The program displays Central Time (CT) and Eastern Time (ET) for all presentations. Please adjust accordingly to your time zone.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Welcome</strong></td>
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</tr>
<tr>
<td>10:00 AM CT</td>
<td>vRRES Welcome &amp; Introduction</td>
<td></td>
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<tr>
<td>11:00 AM ET</td>
<td>Christopher Barkan - University of Illinois</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td><strong>Risk &amp; Liability Management</strong></td>
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<tr>
<td>10:10 AM CT</td>
<td>Planning Ahead for Responsible Soil Management</td>
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<tr>
<td>11:10 AM ET</td>
<td>During Redevelopment: The Union Pacific Railroad Soil Management Program</td>
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<td></td>
<td>Melissa Schop - Union Pacific Railroad</td>
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<td>Peter Masson - Antea Group USA</td>
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<th>Time</th>
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<tr>
<td><strong>Stormwater &amp; Wastewater</strong></td>
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<tr>
<td>10:30 AM CT</td>
<td>CN Thornton Locomotive Wash Upgrade, Sustainable and Innovative Solution</td>
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<td>11:30 AM ET</td>
<td>Seble Afework - CN Railway</td>
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<td>Darrell Curilla - Lukay Research &amp; Development LTD</td>
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<tr>
<td><strong>Keynote Address</strong></td>
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<tr>
<td>10:50 AM CT</td>
<td>Nancy Knowlton, Ph.D., N.A.S.</td>
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<tr>
<td>11:50 AM ET</td>
<td>Sant Chair for Marine Science</td>
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<td></td>
<td>National Museum of Natural History</td>
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<td>Smithsonian Institution</td>
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<tr>
<th>Time</th>
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<tr>
<td><strong>Break</strong></td>
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<tr>
<td>11:20 AM CT</td>
<td>Brief Intermission: Technical Presentations will resume at 11:50 AM CT.</td>
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**Tuesday 27 October Presentations**

**PLEASE NOTE TIME ZONE:** The program displays Central Time (CT) and Eastern Time (ET) for all presentations. Please adjust accordingly to your time zone.

### Compliance & Permitting

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>11:50 AM CT</td>
<td>Environmental Issues Affecting the North American Railroads</td>
<td>Robert Fronczak - Association of American Railroads</td>
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<tr>
<td>12:50 PM ET</td>
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<tr>
<td>12:10 PM CT</td>
<td>Optimizing an Inspection Plan</td>
<td>James Brannen - Union Pacific Railroad</td>
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<td>1:10 PM ET</td>
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<td>12:30 PM CT</td>
<td>Establishing a Reasonable GHG Emission Reduction Target at CSX</td>
<td>Meaghan Atkinson - CSX</td>
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<tr>
<td>1:30 PM ET</td>
<td></td>
<td>Sarah Elsokkary, Mariana Saldana - Arcadis U.S., Inc.</td>
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<tr>
<td>12:50 PM CT</td>
<td>Big Sandy Crayfish vs. Norfolk Southern: How Newly Listed Threatened Species</td>
<td>Jennifer Sunley - Hanson Professional Services, Inc.</td>
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<tr>
<td>1:50 PM ET</td>
<td>Delayed Construction and Drove Up Cost for Replacement Bridges Over Tug Fork</td>
<td>River</td>
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<td>Ridge</td>
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<tr>
<td>1:10 PM CT</td>
<td>Operationalizing Sustainability for Large Railway Transit Construction Projects</td>
<td>Peter Nimmrichter, James Rockwood &amp; Ben Hunter - Wood</td>
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<td>2:10 PM CT</td>
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<tr>
<td>1:30 PM CT</td>
<td>Conclusion of the Tuesday Technical Presentations.</td>
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<tr>
<td>2:30 PM ET</td>
<td>Technical Presentations will resume</td>
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<td></td>
<td>Wednesday at 10:00 AM CT.</td>
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**Adjourn**

**Conclusion of the Tuesday Technical Presentations.** Technical Presentations will resume Wednesday at 10:00 AM CT.
**Welcome**

10:00 AM CT  
11:00 AM ET  

vRRES Welcome & Introduction  
Christopher Barkan - University of Illinois

**Environmental Management**

10:10 AM CT  
11:10 AM ET  

Transforming Portfolio Management through Digital Innovation  
Maura Matthews & Stella Karnis - CN Railway  

**Environmental Data Collection & Applications**

10:30 AM CT  
11:30 AM ET  

Using a Mobile App to Gather Data and Streamline Clean Water Act Compliance Plan Generation  
Terri Allen - Norfolk Southern Railroad  
Daniel Curry - TRC Companies, Inc.

**AAR Environmental Excellence Awards**

10:50 AM CT  
11:50 AM ET  

Presentation of AAR Environmental Excellence Awards  
Robert Fronczak - Association of American Railroads

**Break**

11:10 AM CT  
12:10 PM ET  

Brief Intermission:  
Technical Presentations will resume at 11:40 AM CT.
Wednesday 28 October Presentations

PLEASE NOTE TIME ZONE: The program displays Central Time (CT) and Eastern Time (ET) for all presentations. Please adjust accordingly to your time zone.

**Remediation**

11:40 AM CT
12:40 PM ET
If We Knew Then What We Know Now: Evaluating the Strategy at a Former Tie Treating Facility After 35 Years
Anne Walsh - Union Pacific Railroad
Rebecca Rewey, Jennifer Uhland & Eileen Torok - Jacobs

**Remediation**

12:00 PM CT
1:00 PM ET
Successful Remediation of a Remote and Complex Site in a Provincial Park with Full Stakeholders’ Satisfaction
Stella Karnis - CN Railway
Stefano Marconetto, Tony Lyon & Tim Robertson - Golder

**Environmental Response**

12:20 PM CT
1:20 PM ET
Inland In-Situ Burning: Regulatory Review and Case Study
Nic Winslow - BNSF Railway
Andrew McManus - Arcadis U.S., Inc.

**Environmental Law**

12:40 PM CT
1:40 PM ET
Railroad Environmental Legal Update
Theresa Romanosky - Association of American Railroads

**Adjourn**

1:00 PM CT
2:00 PM ET
Conclusion of the vRRES Technical Presentations. Thank you for joining us. We look forward to seeing you on the University of Illinois Urbana campus next year.
Special thanks to the AAR Environmental Affairs Committee for their vRRES consultation and guidance!