Only the longest-running Wheel/Rail Interaction Conference offers THREE industry-leading railroading events back-to-back in ONE location!

OCTOBER 18, 2021

RAIL TRANSIT SEMINAR

The Rail Transit Seminar is devoted to examining wheel/rail, vehicle/track interaction on rail transit systems. This cross-disciplinary seminar will include presentations from experts in vehicle/track dynamics, noise and vibration, wheel/rail profile design and maintenance, and friction management. Join a unique group of transit professionals, researchers and suppliers at this seminar to examine recent developments in research and technology, participate in lively discussion and gain a better understanding of the complex interaction at the rail transit wheel/rail interface.

OCTOBER 19, 2021

PRINCIPLES COURSE

“Principles of Wheel/Rail Interaction” course is an intensive, full-day course that will provide in-depth examination of the primary aspects of wheel/rail, vehicle/track interaction. Drawing from both theory and practical application, the course will cover contact mechanics, vehicle suspension, wheel set curving, track geometry, friction management, wheel/rail profiles and more—all the elements that are required to promote a more complete understanding of vehicle/track dynamics and wheel/rail interaction.

OCTOBER 20-21, 2021

HEAVY HAUL SEMINAR

The Heavy Haul Seminar is devoted to examining wheel/rail, vehicle/track interaction on rail freight and shared-track passenger systems. We bring together track and mechanical users, researchers and suppliers in a positive, educational setting like no other in the industry. The latest information on new and existing technology, and the ways in which it is being used to improve wheel/rail interaction on freight and passenger railways will be presented by some of the best minds in railroading.

See reverse side for Speakers and Topics

WRI 2021 Sponsors
**RAIL TRANSIT SEMINAR • OCTOBER 18**

**Session 1**  
TBD

**Session 2**  
TBD

**Using Friction Management to Improve System Performance and Reduce Life Cycle Cost on the Canada Line**  
Kelvin Chiddick, Chiddick Consulting  
James Cardno, SNC-Lavalin  
Derek Flann, SNC-Lavalin

**Improving Rail Grinding Specifications and QA/QC Procedures for Transit**  
Mark Reimer, Advanced Rail Management Corp.

**SPECIAL FOCUS — Addressing Wheel/Rail-Generated Noise and Vibration in Rail Transit**

**Rail Damper Trials—Noise Reduction Outcomes from Ottawa and Vancouver**  
Briony Croft, SLR Consulting (Canada)

**Characterizing the Effect of Rail Hardness on Corrugation Formation, Grinding Cycles, and Noise**  
Peeter Vesik, British Columbia Rapid Transit

**Vibro-Acoustic Inspection of Vienna's Tram Network**  
Karoline Alten, Transportation Infrastructure Technologies at AIT Austrian Institute of Technology

**Effects of a Conformal Frog Retrofit on Wayside Noise and Vibration on the Ottawa Trillium Line**  
Rashid Dorj, City of Ottawa  
Harry Skoblenick, Bombardier Transportation

**Controlling Grinding-Induced Corrugation to Maintain Lower Wayside Train Noise Levels**  
Shankar Rajaram, Sound Transit

**HEAVY HAUL SEMINAR • OCTOBER 20 - 21**

**How CSX Designed Optimal Rail Profile for Economics and Risk**  
Dan Hampton, CSX Transportation

**Investigation into a Broken Wheel Derailment**  
Rob Johnston, Transportation Safety Board of Canada

**Using Modern Railroad Data Analytics to Minimize Mixed Manifest Train Incident Risk**  
Kyle Mulligan, CP Rail

**Wheel Truing Technology Development and Innovation**  
David Davis, Simmons Machine Tool Corporation  
Brandon Teal, Simmons Machine Tool Corporation

**Rail Milling in Heavy Haul Environments**  
Richard Stock, LINSINGER

**Research into the Causes of Visually “Undetectable” Broken Spikes**  
Marcus Dersch, University of Illinois  
Brad Kerchof, (Retired) Norfolk Southern

**Monitoring and Managing W/R Interface Forces in Revenue Operation of QNS&L**  
Yan Liu, National Research Council of Canada  
Dominique Strois, Rio Tinto, QNS&L Railway

**Investigation by Vale S.A. into Truck Hunting and the Associated Damages to Truck Components and Heavy Haul Rolling Stock**  
Paul Bladon, Wayside Inspection Devices Inc.

**The Role of Elasticity in Ballasted Tracks**  
Rudolf Schilder, Advanced Rail Track Solutions

**Session 16**  
TBD

**Real Results: Reduction of Train Accidents Based on the use of Friction Management**  
Leonardo Soares, Rumo Logistica S.A.

**Adverse High Rail Profiles**  
Brad Kerchof, (Retired) Norfolk Southern

**Dynamic Simulation of Locomotive Derailments on Crossover Track**  
Daoxing Chen, Transportation Safety Board of Canada

Attend one, two, or all three events. Discounts available for all railroaders!  
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