The Principles of Wheel/Rail Interaction Course is an intensive, full-day course that provides fundamental coverage of the primary aspects of wheel/rail, vehicle/track interaction. Drawing from both theory and practical application, the course covers contact mechanics, track geometry, vehicle suspension systems, vehicle/track dynamics, wheel/rail profile design, friction management, measurement technologies and more—all the elements that are required to promote a more complete understanding of vehicle/track dynamics and wheel/rail interaction.

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

The Heavy Haul Seminar is devoted to examining wheel/rail, vehicle/track interaction on rail freight and shared-track passenger systems. The Seminar brings together track and mechanical users, researchers and suppliers in a positive, educational setting like no other in the industry. Information on where and how the latest technology is being used to improve wheel/rail interaction and overall performance on freight and passenger railways is presented by some of the best minds in railroading. Information is presented through a combination of seminar sessions, panel discussions, dedicated Q&A periods and “InfoZone” sessions.

2019 Principles Course Speakers and Topics

Speakers and Topics subject to change.

Wheel-Rail Contact Mechanics
Kevin Oldknow
Associate Dean & Director, Faculty of Applied Sciences, Simon Fraser University

Track Structures, Components & Geometry
Gary Wolf
President, Wolf Railway Consulting, LLC

Vehicle-Track Interaction & Dynamics
Rob Caldwell
Sr. Engineer, National Research Council Canada

Maintaining Wheel-Rail Interface Conditions
Eric Magel
Principal Engineer, National Research Council Canada

Wheel-Rail Damage Mechanisms
Richard Stock
Milling Technology Manager, LINSINGER and LINMAG

Vehicle-Track Measurement Technologies
Matt Dick
Deputy Division Manager, Commercial Business Ops, ENSCO, Inc.

Vehicle Types, Suspensions & Components
Elton Toma
Sr. Engineer, National Research Council Canada

Effects of Super-elevation and Speed on Vehicle Curving
Brad Kerchof
Director Research & Tests, Norfolk Southern Railway

Wheel Rail Seminars is pleased to have Kevin Oldknow once again as Organizing Chair and Program Director for the Annual Principles of Wheel/Rail Interaction Course.

Kevin Oldknow
Organizing Chair and Program Director

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