

ICRI Workshop at IAVSD, Ottawa
 August 24th, 2023
 Venue: IAVSD Conference at The Shaw Center

start time	Thursday August 24, 2023	Presenter(s)
8:00	Coffee served at IAVSD	
8:30	State-of-the-Art Presentation : Improved Curving Performance Using Unconventional Wheelset Guidance Design and Wheel-Rail Interface - Present and Future Solutions	Yoshihiro Suda (The University of Tokyo), and Yohei Michitsuji (Ibaraki University)
9:30	Welcome and workshop outline	
	Session 1 Lead: Eric Magel Topic: Broken rails and derailments due to broken rails interactive workshop	
10:15	Discussion session	
10:30	Coffee break (compliments of IAVSD)	
	Session 2 Topic: Friction influences on vehicle dynamics	Session Chairperson: Peter Klauser
11:00	Rail vehicle curving and wheel-rail friction	Peter Klauser (Vehicle Dynamics Group LLC)
11:15	Implementation of the friction mapping concept in locomotive digital twins	Maksym Spiryagin (Central Queensland University)
11:30	Wheel-rail creep curve development using the rolling contact fatigue simulator	Alex Keylin (MxV Rail)
11:45	Field measurement of dynamic behavior with the application of TOR friction modifier on a European metro	John Cotter (L.B. Foster)
12:00	Discussion session	
12:30	Lunch beak (compliments of IAVSD)	
	Session 3 Topic: Track friendly vehicles / Modeling track damage	Session Chairperson: Klaus Six
13:30	Track friendly railway vehicles: aspects and challenges	Klaus Six
13:45	Universal cost model: gaps in track damage modelling	Carlos Casanueva (KTH)
14:00	High-fidelity modelling and simulation of vehicle-track interactions of transit Systems	Wei Huang (NRC)
14:15	UK track access charge model: methodology and impact on rolling stock	Yann Bezin (Huddersfield University)
14:30	Discussion session	
15:00	Coffee break (compliments of IAVSD)	
	Session 4 Topic: Simulations regarding wear and RCF	Session Chairperson: Edwin Vollebregt
15:30	Wheel/rail contact simulation with measured profiles	Edwin Vollebregt (Vtech CMCC)
15:45	Simplified modelling approaches for non-Hertzian and conformal wheel/rail contacts	Binbin Liu (Politecnico di Milano)
16:00	Simulation and measurement of profile evolution	Sebastian Stichel (KTH Stockholm)
16:15	Life extension for switches and crossings	Ankur Ashtekar (Loram Technology Inc)
16:30	Discussion session	
16:45	ICRI CONTACT benchmark	Edwin, Saeed, Binbin
17:15	Wrap up (15 minutes)	Eric Magel
18:30	IAVSD Banquet Dinner at Shaw Center (tickets available for purchase)	