

Symposium “Monitoring Wheel-Rail Interaction” 2023 - „increased availability through riding comfort“

on **March 28th, 2023**; at „**ARIANA**“ (Christine-Touaillon-Straße 4, 1220 Vienna)

Moderation (morning)

Prof. Ferdinand Pospischil, Technical University Graz

7:45 *Registration*

- 8:30 Welcome Speech** (5´)
Gérard Presle, Leiter ÖVG AK Railway Technology (Track)
- 8:35 Keynote: The railroad as a flagship for technology and digitalization** (25´)
Andreas Matthä, CEO of ÖBB
- 9:00 Impulse Talk: Principles for a successful transformation of the railway system from ÖBB's point of view** (30´)
Dipl.Ing. Mark Topal-Gökceli, ÖBB-Holding

Topic 1: Travel comfort, availability

- 9:30 Human vibration and travel comfort in rail vehicle technology** (30´)
DI Thomas Kolbe, DB-Systemtechnik
- 10:00 *Coffee Break* (30´)
- 10:30 Ride comfort and the critical interface between sleeper and ballast** (30´)
Michael Sehner, Getzner
Stefan Loacker-Schöch, Getzner
- 11:00 The ÖBB track of the future** (30´)
Dr.techn. Michael Mach, ÖBB-Infra
- 11:30 Optimization of the welding process with the Plasser FlashWelder: Creation and development process** (30´)
DI Bernhard Antony & Markus Öllinger, Plasser & Theurer
- 12:00 *Lunch Break*

Moderation (afternoon)

Prof. Günter Prager, University Innsbruck

- 13:30 Impulse Talk: The quantum computer - Will it change railway technology?** (30´)
Hannes Stefko, IT expert
- 14:00 Automatic detection of disturbing influences in the monitoring of railway noise using AI** (30´)
Florian Biebl, psiacoustic
Matthias Blaickner, FH Technikum Wien

Topic 2: Condition Based Management

- 14:30 From maintenance management to life cycle management of track systems** (30´)
Prof. Peter Veit, Technical University Graz
Dr. Michael Walter, ÖBB-Infra
- 15:00 Damage to rail infrastructure by vehicles via wheel-rail interaction** (30´)
Marco Meusburger, SCHIG
DI Roman Schmid, ÖBB-Infra

15:30 *Coffee Break*

Topic 3: Monitoring

- 16:00 Wayside Train Monitoring-System** (30´)
Klark Melek, Wiener Linien
Valentin Schreiner, Wiener Linien
- 16:30 TSI-Spot@: Innovative technology for the assessment of vehicle and track for a future-oriented railway system** (30´)
DDI Dietmar Maicz, HBK
Dr. Paul Mittermayr, BAMM

17:00 *End of symposium*