

22nd International Convention of the Working Committee on Railway Technology (Infrastructure)
**Optimising the Wheel/Rail System:
Innovations – Outlook – Implementation**

16 – 18 September 2019
Salzburg Congress, Austria

Monday, 16.9.2019

10:00 **Opening of the Convention**

Dipl.-Ing. Helmut HAINITZ, Chairman

SESSION A: INFRASTRUCTURE MANAGEMENT AND DIGITALISATION

Chair: Dipl.-Ing. Franz BAUER/Ing. Mag. Andreas Matthä

10:15 **International Infrastructure Financing**

Martha Lawrence, Senior Railway Specialist, World Bank, USA

10:45 **Systems Engineering**

Dipl.-Ing. Bernhard KNOLL, UEEIV, Austria

11:15 **Certified Asset Management at ÖBB**

Dipl.-Ing. Christian HOLZER, ÖBB, Austria

11:30 **Life Cycle Management Across Disciplines at ÖBB-Infrastruktur**

Dipl.-Ing. Georg NEUPER, ÖBB, Austria

12:00 **Track Management of a Heavy Haul Railroad in the USA**

tba, CSX, USA

12:30 *Lunch Break*

13:30 **Discussion: Effect of Digitalisation on Infrastructure Management**

Dipl.-Ing. Franz BAUER, ÖBB, Austria

Dipl.-Ing. Frank SENNHENN, DB Netz AG, Germany

tba, SBB, Switzerland

SESSION B: TRACK TECHNOLOGY – ECONOMIC DEVELOPMENTS

Chair: Dipl.-Ing. Dr. Peter VEIT, Graz University of Technology, Austria

14:15 **Improving Durability of Ballast Track on Korea HS Lines**

Dr. SEUNG Yup Jang, National University of Transportation, Korea

14:45 **Impact Through Innovation – Processes, Products and Systems for a Future-Oriented Rail System**

Dr. Jochen HOLZFEIND, voestalpine Railway Systems, Austria

15:15 *Coffee Break*

15:45 **Rail Infrastructure Skills and Knowledge Transfer – an Obsolete Model?**

Christian SCHLATTER and Peter GÜLDENAPFEL, Centre of Excellence for Tracks, Switzerland

16:15 **Plastic Sleepers**

Rodolphe POTVIN, SNCF, France

16:45 **Rehabilitation of Track in Short Possessions on Japanese HS Lines**

tba, JR-West, Japan

17:15 **Track Tamping and Design Lifting**

Dipl.-Ing. Agnes SCHÖPP, ÖBB, Austria

Tuesday, 17.9.2019

SESSION C: PERMANENT WAY – DIAGNOSIS AND MAINTENANCE

Chair: Dipl.-Ing. Dr. Klaus RIESSBERGER

08:30 **Track Gauge**

Dipl.-Ing. Hans Peter LANG, DB, Germany

09:00 **Track/Vehicle Interaction**

Dipl.-Ing. Ingolf NERLICH, SBB, Switzerland

09:30 **Rolling Contact Fatigue of Rails**

Dipl.-Ing. Roman SCHMID, ÖBB, Austria

10:00 **Permanent Way Programmes Based on Trend Analyses**

Dipl.-Ing. Johannes NEUHOLD BSc., Graz University of Technology, Austria

10:30 *Coffee Break*

11:00 **Digitalisation in Track Construction & Maintenance**

Dipl.-Ing. Dr. Florian AUER, Plasser & Theurer, Austria

11:30 **Digitalisation of Rail Infrastructure**

tba

12:00 **Fibre Optics, a New Data Source for Rail Infrastructure**

Dipl.-Ing. Ivan VIDOVIC BSc., Graz University of Technology, Austria

12:30 **Data-Based Description of the Condition of Switches**

Dipl.-Ing. Michael FELLINGER BSc., Graz University of Technology, Austria

13:00 *Lunch Break*

SESSION D: URBAN TRANSPORT COMPANIES AND INTERNATIONAL PERSPECTIVES

Chair: Dipl.-Ing. Dr. Norbert OSTERMANN

14:00 **Rail Surface Maintenance in Urban Transport Companies**

Dipl.-Ing. Johannes KEHRER BSc., Vienna University of Technology, Austria

14:30 **International Approval of On-Track Machines**

Dipl.-Ing. Dr. Josef DOPPELBAUER, ERA, France

15:00 **Requirements for Interoperability: Status Quo and Outlook**

Dipl.-Ing. Dr. Michael WALTER, ÖBB, Austria

15:30 *Coffee Break*

16:00 **Dedicated Freight Corridors in India**

Ajit Kumar MISHRA, Dedicated Freight Corridor Corporation of India Ltd., India

16:30 **Bi-Oceanic Project**

Milton CLAROS, Public Works Minister, Bolivia

Michele MOLINARI, Molinari Rail, Switzerland

17:00 **The New Silk Road**

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17:30 **Introduction to the Excursion**

Dipl.-Ing. Christoph KUTTELWASCHER, ÖBB, Austria

Wednesday, 18.9.2019

09:00 - 12:00 **Demonstration of Digital Track Maintenance**

Salzburg Railway Station