

**22nd International Convention of the Working Committee on Railway Technology (Infrastructure)**

**Optimising the Wheel/Rail System:  
Innovations – Outlook – Implementation**

16 to 18 September 2019  
Salzburg Congress, Austria  
Auerspergstraße 6, 5020 Salzburg

**Sunday, 15 September 2019**

16:00 *Registration and get-together (Salzburg Congress, Auerspergstraße 6, 5020 Salzburg)*

**Monday, 16 September 2019**

08:30 *Registration*

10:00 **Opening of the Convention**

Dipl.-Ing. Franz BAUER

**SESSION A: INFRASTRUCTURE MANAGEMENT AND DIGITALISATION**

Chair: Dipl.-Ing. Helmut HAINITZ/Ing. Mag. (FH) Andreas MATTHÄ

10:15 **The future of the railways is digital**

Ing. Mag. (FH) Andreas Matthä, ÖBB-Holding AG, Austria

10:45 **International Rail Infrastructure Financing**

Martha LAWRENCE, The World Bank, USA

11:15 **Systems Engineering**

Dipl.-Ing. Dr. Bernhard KNOLL, UEEIV, Austria

11:45 **Certified Asset Management at ÖBB-Infrastruktur AG**

Dipl.-Ing. (FH) Christian HOLZER, ÖBB, Austria

12:00 **Life Cycle Management Across Disciplines at ÖBB Infrastruktur**

Dipl.-Ing. Georg NEUPER, ÖBB, Austria

12:30 *Lunch Break*

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

Dipl.-Ing. Franz BAUER, ÖBB, Austria

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

Jacques BOSCHUNG, SBB, Switzerland

**SESSION B: TRACK TECHNOLOGY – ECONOMIC DEVELOPMENTS**

Chair: Dipl.-Ing. Dr. Peter VEIT, TU Graz, Österreich

14:15 **Strengthening Ballasted Track on Korean HS lines**

Dr. Seung Yup JANG, National University of Transportation, Korea

14:45 **Railway Systems: digital, robust, proactive**

Dr. Jochen HOLZFEIND and Dr. Albert JÖRG, voestalpine Railway Systems, Austria

15:15 *Coffee Break*

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

Christian SCHLATTER und Dipl.-Ing. Peter GÜLDENAPFEL, Centre of Excellence for Tracks, Switzerland

16:15 **Plastic Sleepers – an Alternative for Wooden Sleepers**

Dipl.-Ing. Rodolphe POTVIN, SNCF, France

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

Yosuke MORIYAMA, West Japan Railway Company, Japan

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

Dipl.-Ing. Agnes SCHÖPP, ÖBB, Austria

19:00 *ÖVG Evening (Residenz zu Salzburg, Residenzplatz 1, 5020 Salzburg)*

**Tuesday, 17 September 2019**

**SESSION C: PERMANENT WAY – DIAGNOSIS AND MAINTENANCE**

Chair: em. Univ.-Prof. Dipl.-Ing. Dr. Klaus RIESSBERGER

- 08:30 **Track Gauge**  
Dipl.-Ing. Hans Peter LANG, DB, Germany
- 09:00 **Rolling Contact Fatigue of Rails**  
Dipl.-Ing. Ingolf NERLICH, SBB, Switzerland
- 09:30 **A Track Infrastructure Benefit: the “Vehicle Fingerprint”**  
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**  
Jan MYS, Infrabel, Belgium
- 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: Univ. Prof. Dipl.-Ing. Dr.techn. 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**  
Michele MOLINARI, Molinari Rail, Switzerland  
Dr.-Ing. Bettina WITTKÉ-SCHMITT, WBI GmbH, Germany
- 17:00 **Track Research in North America**  
Gary FRY, Ph.D., P.E., Transportation Technology Center, Inc., USA
- 17:30 **Introduction to the Excursion**  
Dipl.-Ing. Christoph KUTTELWASCHER, ÖBB, Austria

**Wednesday, 18 September 2019**

- 09:00 - 12:00 **Demonstration of Digital Track Maintenance**  
Salzburg Railway Station