

4<sup>th</sup> May'17 (Hall 2- Ashoka)

**Session4B- Energy Efficient Traction Systems**  
10:00-11:30

**Energy-Saving Railway Systems**

Mr. Michiki Ishikawa, Senior General Manager & Technology Executive/ Toshiba

**Permanent Magnet Traction Motors used in Traction Application**

Mr. Jean-Luc Verset, Senior Expert/Alstom Transport

**Progress in Traction Motors Development for Electrical Multiple Units**

Dr. Olaf Koerner, Head of Traction Machine Development/Siemens

**SiC Device based Traction Converters**

Dr Gourab Majumdar, Senior Fellow & Mr Masamichi Sakane, General Manager/ Mitsubishi Electric Corporation

**Energy Efficiency – Electric Propulsion System Technology Prospective**

Mr. Xu Shaolong, Chief Electric Engineer/CRRC

**Tea Break: 11:30-11:45**

**Session5B- Expanding With...out**  
11:45-13:15

**Continuous Automatic Train Control with Moving Block Technology for Main Line Application**

Mr. Naoki Hatazaki, Manager - Overseas Sale Department/Nippon

**Centralised Traffic Control and Train management**

Mr. V G Ramesh Kumar, Head of Engineering & Mr. Gaurav Srivastava, Senior Signalling Configuration Engineer/Ansaldo

**Digitalization of Operational Communications on Railways**

Mr. Matej Prijatelj, Director of Business Development/Iskratel, d.o.o., Kranj

**Technological Advances in RM&D, Digital Twins & Analytics**

Mr. Vishram Nandedkar, Sr Manager- Data & Analytics/GE Transportation

**Talgo Technology & Interior Features of Talgo Coaches**

Ms. Elena Garcia, Technical Manager/TALGO

**Lunch Break: 13:15-14:15**

**Session6B- Valuing the Customers**  
14:15-15:45

**Latest Technology for Enhancing Security on Trains and Stations**

Mr. Alexander Shutov, Member of the Board/Electronika

**Modern Communication Technology to Improve Safety and Enhance**

Commuter Experience in Railway Networks

Mr. Ravi Ravitharan, Director/IRT Monash University

**System of Continuous Monitoring of Situations at Railway Facilities**

Mr. Andrei Burakov, Deputy CEO/Integra-S

**An Assessment of Emerging Technology in Energy & Environment Sector**

By- CEEW

**World Class Coach Interiors**

Mr. Riccardo Sparagi & Mr. Paolo Filotto

**Modern Coach Interiors**

Mr. Baljeet Suri

**Tea Break: 15:45-16:00**

**Valedictory Session: 16:00-17:30**



Nodal Organisation:



Supported By:  
Institute of Rolling Stock Engineers  
&  
Institution of Railway Signal and  
Telecommunication Engineers



SUPPORTED BY:



## GLOBAL TECHNOLOGY CONFERENCE

3<sup>rd</sup> & 4<sup>th</sup> May 2017  
Manekshaw Center, New Delhi

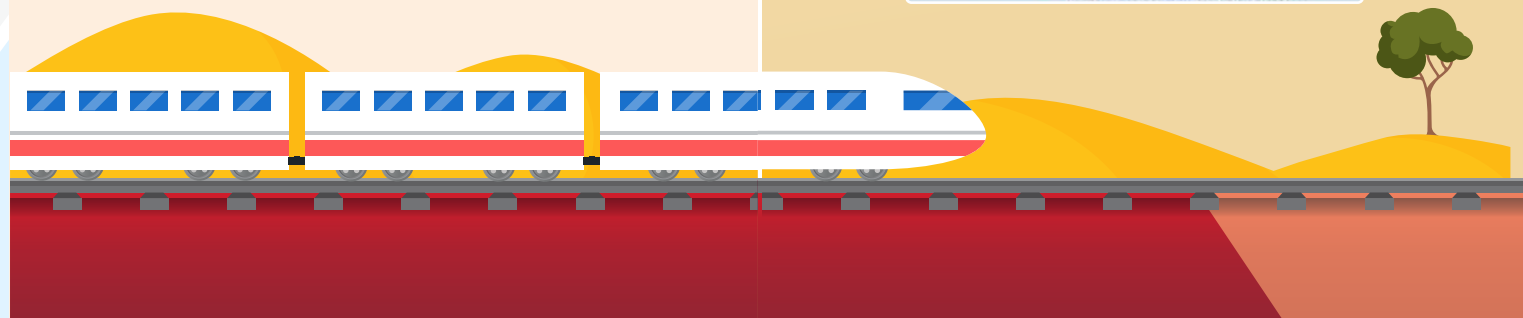


International Conference on Development &  
Adaptation of Advance Technology for Railways

## CONFERENCE PROGRAMME

MINISTRY OF RAILWAYS  
GOVERNMENT OF INDIA

Nodal Organisation:



3<sup>rd</sup> May'17 (Hall 1- Zoravar)

**Registration:** 09:00-10:00

**Inaugural Session:** 10:00-11:15

**Tea Break:** 11:15-11:45

**Session1A- Leveraging Digital Frontiers**  
11:45-13:15

**Digital Technologies for Railways**

Dr. Alexey Ozerov, Head of Business Cooperation Deptt./JSC NIIAS (Russia)

**Increase Availability with Digital Services**

Mr. Gerhard Paal, Head of Sales for Digital Services/Siemens

**Using Data for Predictive Maintenance Solutions**

Mr. Sergej Samjatin, Director International Sales/DB Systemtechnik GmbH, Germany

**Digitalization of Railway Infrastructure**

Dr. Florian Auer, Senior Expert Track Technology/Plasser

**Onboard Monitoring for Safety, Rail Wagon Condition Monitoring & Supply Chain Visibility**

Mr. John Felty, Senior Director Business Development/IONX LLC, USA

**Lunch Break:** 13:15-14:15

**Session2A- Interaction with Fixed Assets**  
14:15-15:45

**Non-intrusive method for Track Monitoring and Security**

Mr. Peter Bradley, Director FTS Strategy/Frauscher Sensing Technology

**Rail Integrity Monitoring – Railway Safety through Self-aware Trains**

Ms Shubha VB, Director - Software Engineering Transport Intelligence/GE Transportation Digital Solutions

**Suitable Technologies for Broken Rail Detection on Indian Railways**

Mr. Francois Burger, Head, New Development/Institute for Maritime Technology (IMT), South Africa

**Using IOT and Cloud based System for Safeguarding Train Operations**

Mr. Prashant Shukla, National Technology Officer/Microsoft

**Residual Stress Pattern in used and unused Rail and Measurement Techniques**

Mr. Sanjeev Kumar, Senior Manager/RDCIS, SAIL

**Tea Break:** 15:45-16:00

**Session3A- Interaction on Roll**  
16:00-17:15

**Rotating Equipment Performance for Reliable Operation of Rolling Stock**

Mr. Filip Rosengren, Director of Railway Business /SKF

**Condition Monitoring with the Worldwide Only Open Interface Rail CBM Solution iCOM**

Dr. Marco Nock, Vice President Engineering & Mrs. Kathrin Moder, Head of Sales & Marketing /Knorr-Bremse Rail Services

**Condition Monitored Maintenance for Rail**

Mr. Steve Turley, Managing Director/Perpetuum

**Railways and the Internet of Things – Impact on Safety and Reliability**

Dr. Jan Radtke, Senior Management Consultant & Mr. Murali Ayyagari, Delivery Manager/Cyient

**Vibration Based Diagnostic Techniques for Higher Reliability**

Expert/NPC

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**Registration:** 09:00-10:00

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**Tea Break:** 11:15-11:45

**Session1B- Decoding the Invisible**  
11:45-13:15

**Integrated Track Monitoring Systems for Semi-High Speed and High Speed Routes**

Mr. Cesare Santanera, CEO/D.M.A., s.r.l., Italy

**The Importance of Vehicular Ultrasonic NDT**

Mr. Ilya Karavaev, Project Manager/TVEMA, Russia

**General Case Histories of Japanese Railway Geosynthetic Reinforced Soil Structures**

Dr. Susumu Nakajima, Senior Researcher and Mr. Taketo Sato, Researcher/ RTRI, Japan

**Introduction of Japanese Ultrasonic Rail Inspection Systems**

Mr. Seiji Kokubun, Technical Sales Department/Tokyo Keiki Rail

**Rail Flaw Detection Technology on the Russian Railways**

Mr. Evgeny Veselkov, Expert/RDM-Vigor

**Lunch Break:** 13:15-14:15

**Session2B- Carrying More Within**  
14:15-15:45

**Advanced Composites for Rolling Stock**

Dr. PKC Bose, Vice Chairman & Managing Director/Saertex S.A.

**Modern Solutions for Rail Wagons, Rail Coaches and Railway Infrastructure Applications**

Mr. Yatinder Pal Singh Suri, CMD & Mr. Purushothama Reddy, Business Manager – South/Outokumpu India Private Limited

**Distributed Power Control System for Indian Railways**

Mr. Binu S Pillai, Head of Research and Development Department / Lotus Wireless Technologies India Private Limited

**Wheelset Solutions–Delivering (Make In India) wheelsets for increasing productivity of coach/ loco manufacturing units**

Mr. Kucharczyk Petr, Technical Specialist/Bonatrano

**Technical Expert from DRDO**

**Tea Break:** 15:45-16:00

**Session3B- Expediting Infrastructure Augmentation**  
16:00-17:15

**Design and Construction of Railway Tunnels in Himalayan Region by NATM**

Dr. Eng. Bineshian, Hoss, Dy. Consultancy Head/GEODATA Engineering S.p.A.

**Modern Technologies of Railway Infrastructure Construction**

Mr. Igor Uspenskii, Vice President /INFORMSVYAZ HOLDING

**Innovative LCC Optimized Turnout Technology for Meeting Challenges of the Future**

Mr. Heinz Ossberger, Head of Corporate Turnout Technology/ Voestalpine VAE VKN India Pvt. Ltd

**Turnout Technology for Mixed Traffic Condition on IR**

Mr. Vincent Charpentier, Design Project Engineer/ Vossloh

**Sustainability of Formation Rehabilitation**

Dr. Florian Auer, Senior Expert Track Technology/Plasser

4<sup>th</sup> May'17 (Hall 1- Zoravar)

**Session4A- Machine Vision for Enhanced Safety**  
10:00-11:30

**Machine Vision Systems For Railway Wayside Condition Monitoring**

Mr. Andrew Meyer, Operations Manager/Beena Vision, USA

**Advances in Data Use for Wayside Condition Monitoring Systems**

Mr. Nick Aschberger, Innovation Manager /Track IQ, Wabtec Control Systems

**Bridge Health Monitoring**

Mr. Akshaya Sharma, Country Head (India) & Mr. Manoj Gopinathan, Assistant Director, India Operations/Sharma & Associates, Inc.

**Advanced Instrumentation for Health Monitoring of Bridges**

Mr. Robert Percy, Director & Mr. David Mackenzie, Executive Director/COWI UK Ltd.

**Safer Rail Operations: Reactive to Proactive Maintenance Using State-of-the-Art Automated In-service Vehicle-Track Condition Monitoring**

Mr. Ravi Ravitharan, Director/IRT Monash University

**Tea Break:** 11:30-11:45

**Session5A- Looking Far Beyond**  
11:45-13:15

**Elbit ClearVision™ Rail System**

Mr. Kogan Gregory, Program Manager/Elbit Systems Ltd.

**LocoVision Video Analytics – Giving eyes to the Train**

Mr. Dattaraj Jagdish Rao, Principal Architect – CTO Office/GE Transportation

**Enhanced Safety with Advanced Fog Vision and Telemetry**

Mr. Shuktij Singh Rao, Chief of Infrastructure/Tata Power SED

**Vision and Collision Avoidance Assistance System**

Mr. Atul Khanna, Chairman & Mr. Sadanand Sahu, Asst. General Manager/ Tooltech Global Engineering Pvt. Ltd

**Image Analysis for Predicting Equipment Reliability**

Expert/ISRO

**Lunch Break:** 13:15-14:15

**Session6A- Enhanced Operational Efficiency**  
14:15-15:45

**The Business Case for Connected Driver Advisory Systems**

Mr. Dale Coleman, Managing Director/TTG Transportation, Australia

**Advanced Driver Advisory System for Energy Efficient Driving and Improved Punctuality**

Dr. Marco Nock, Vice President Engineering & Mrs. Kathrin Moder, Head of Sales & Marketing / Knorr-Bremse RailServices

**Advanced Testing Methodologies for Rolling Stock Certification**

Mr. Asier Jauregi, General Manager/CETEST, Spain

**Using Artificial Intelligence to Identify Global and Indigenous Technologies to Solve Technological Challenges**

Ms Komal Sharma Talwar, Founder/XLPat TT Consultants

**Leveraging Electrical Industry Standards for Improving Railway Supply Chain**

Mr. Sudhir Mishra/EMA

**Integrated Risk and Asset Management Practices for Enhancing Railway Safety**

Mr. Manu Sasidharan, PhD Researcher/University of Birmingham

**Tea Break:** 15:45-16:00

**Valedictory Session:** 16:00-17:30