



THE SIXTH INTERNATIONAL CONFERENCE

# **RAILWAY ENGINEERING PROSPECTS, TECHNOLOGIES, PRIORITIES**

**11-13 SEPTEMBER 2013**

Experimental Rail Ring VNIIZHT  
Shcherbinka, Moscow, Russia



## **PROGRAMME**

General Partner



JSC Russian Railways

Strategic Partner



Partner



Partner



Partner



Partner



Organizer



# 11 September

08:00

Registration

Registration sponsor:



08:30-10:00

Refreshments & Networking (Cafe for delegates)

10:10-11:30

**Plenary session** (Demonstration and Training Exhibition Centre)

## Railway Engineering 1520:

Ideology of progress in the post-industrial economy

- Projects for the development of the Russian rail network: industrial growth driver and impact on the country's economy
- Russian industrial policy: goals set in the State Programme to develop industrial capabilities and improve competitive growth until 2020 in the field of railroad engineering
- Current areas of support for transport engineering enterprises in the context of Russia's accession to WTO and the establishment of the Common Economic Space
- Legislative incentives to stimulate demand for innovative equipment and the introduction of cutting-edge technologies

Speakers:

**Vladimir Yakunin**, President, Russian Railways

**Alexey Rakhmanov**, Deputy Minister of Industry and Trade of the Russian Federation

**Guillaume Pepy**, President, SNCF

**Jochen Eickholt**, General Director, Rail Systems Division, Infrastructure and Cities Sector, Siemens AG

**Alexander Nesis**, President and CEO, ICT Group

**Dmitry Pumpyansky**, Chairman of the Board, Sinara Group

**Henri Poupert-Lafarge**, President, ALSTOM Transport

11:35-11:45

Signing of international agreements

12:00-12:20

**Opening of the Fourth International Railway Salon of Engineering and Technologies EXPO 1520**

(Open Area in Front of Demonstration and Training Exhibition Centre)

12:20-12:50

**Tour across the stationary exhibition by official guests**

13:00-14:30

**Tour to the exhibition in motion by official guests**

(VNIIZHT Experimental Ring)

13:00-14:30

General Meeting of Non-Profit Partnership "Association of Manufacturers of Railcars" by invitations only

(Administrative building)

13:00-15:00

Lunch (Cafe for delegates)

15:00-16:30

**Discussion** (Demonstration and Training Exhibition Centre)

## Globalisation of Railway Engineering:

### Manufacturers in the new system of business relations

- International alliances as a means to stimulate innovation-driven development and the competitiveness of mechanical engineering companies
- Combining the research and development, production and managerial resources of manufacturers in the 1520 and 1435 spaces to localise the production of a new-generation of rolling stock
- Harmonization of requirements for the localization of production in Russia and operation of a new generation of rolling stock
- IRIS international standard: New growth incentives for 1520 manufacturers
- Protecting intellectual property and registering joint patents in the process of production localisation

Moderator:

**Valentin Gapanovich**, Senior Vice-President for Innovative Development-Chief Engineer, Russian Railways; President, NP Union of Industries of Railway Equipment

Speakers:

**Evgeny Gritsenko**, General Director, Sinara-Transport Machines

**Bernard Kaufmann**, General Manager, IRIS Group

**Sergey Kofman**, Director, High-Speed and Suburban Trains, Department of Rail Transport Systems, Siemens in Russia and Central Asia

**Kirill Lipa**, Chairman of the Board of Directors, Zheldorremash

**Vladimir Matyushin**, Vice-President, Non-commercial Partnership 'Association of Railway Equipment Producers'

**Louis Negre**, President of the French Association of Railway Industry

**Robert Pokorski**, Technical Director, Miner Enterprises, Inc.

**Vladimir Salamatov**, General Director, World Trade Center

**Andrey Shlyonsky**, Deputy General Director for Railway Equipment, Uralvagonzavod

**Roman Timofeev**, Head, Office for Intellectual Property, Russian Railways

16:30-16:45 Coffee break (Cafe for delegates)

16:45-18:00 **Expert dialogue** (Administrative building)

## Boosting Demand for Innovative Railcars

- Reaction of manufacturers to reduction in purchase volume of new rolling stock
- Is it possible to achieve parity between the retirement of an aging fleet and the purchase of new rolling stock?
- Programme to boost demand for innovative railcars: Tariff reduction or discount from the manufacturer?
- Increasing the service life of old cars... and what to do with transport safety?
- Can an innovative railcar generate a profit in five years and not at the end of the planned service life?

Moderator:

**Boris Lapidus**, General Director, Russian Research and Development Institute of Railway Transport; Chairman, International Railway Research Board under the International Union of Railways

Speakers:

**Sergey Barbarich**, General Director, Innovative Railcar Manufacture

**Dmitry Bovykin**, Deputy General Director, Executive Director, United Wagon Company

**Andrey Shlyonsky**, Deputy General Director for Railway Equipment, Uralvagonzavod

**Alexey Sokolov**, Chief, Design Office - Branch of Railway Research Institute; Vice - Chairman of Joint Scientific Council of Russian Railways

16:45-18:00 **Section** (Russian Railways Corporate University, 2nd floor, lecture room 306-305)

## Track Production as an Important Factor in Transportation Effectiveness and Safety

- Russian Railways – the driving force and sponsor of the technical modernisation of rail track production in Russia
- Long-term objectives for track maintenance efficiency and the introduction of innovative technical maintenance technologies
- EVRAZ Group – owner of the most advanced rail manufacturing technologies
- Extensive use of 100-metre long tracks – advanced innovative track maintenance technology
- Prospects for the development of rail technology and high-performance rail production in Russia
- Advanced techniques for extending the lifespan of rail tracks through improved technology and production modernisation; improvement of rail track quality
- Harmonising Russian and Western requirements for rail production
- Improving the conformity assessment procedure, eliminating unnecessary barriers to innovative developments in the rail industry
- Pricing policy – its role and place in the system of incentives for the technical re-equipment and modernisation; introduction of cutting-edge technology

Moderator

**Sergey Palkin**, Director for Technical Regulation of Railway Products, EVRAZholding; Vice-President, Non-Commercial Partnership ' Association of Railway Equipment Producers'

Speakers:

**Norbert Frank**, Head of Technology, VOESTALPINE SCHIENEN

**Alexey Golovatenko**, Operational Director, Division "Railway rolling", EVRAZ – West Siberian Metallurgical Plant

**Katsuya Iwano**, Senior Manager, Nippon Steel and Sumitomo Metal Corporation, Japan

**Alexey Kushnaryov**, Managing Director, EVRAZ – Nizhny Tagil Metallurgical Plant  
**Roman Litvinov**, Chief, Department for Rail Production, EVRAZ - Nizhny Tagil Iron and Steel Works  
**Dmitry Merson**, Director, Scientific Research Institute “Advanced Technologies”, Togliatti State University  
**Dmitry Shaburov**, Head, Technical Office, Chelyabinsk Metallurgical Plant  
**Maxim Shtayger**, Deputy Director, Technical Audit Center, Russian Railways; Head of the Track Section, Non-commercial Partnership “Railway Equipment Producers Association”  
**Vyacheslav Yermakov**, Chief Engineer, Track and Station Office, Central Infrastructure Directorate, Russian Railways

16:45-18:00 General meeting of members of Union of Industries of Railway Equipment Non-profit Partnership by invitations only  
(Demonstration and Training Exhibition Centre)  
Signing of agreements

17:45-18:25 Delegates Gathering on Platform Dynamic Exposure  
Departure for Evening Reception from VNIZHT Experimental Ring to Moscow Kievskaya Passenger Station

20:00 **Reception** hosted by Russian Railways President  
Evropeisky Retail and Entertainment Centre, Entrance 5, 5<sup>th</sup> Floor, Evropeisky Hall

# 12 September

08:00

Registration

Registration sponsor:



08:30-10:00 Complimentary coffee and tea (Pavilion Cafe)

08:00-12:00

Session of Council of 1520 Area Railways Chief Engineers chaired by Valentin Gapanovich, senior vice-president for innovative development and chief engineer by invitations only (Administrative block)

09:00-12:00

Meeting of IRIS Advisory Board by invitations only  
(Russian Railways Corporate University, 2nd floor, lecture room 306-305)

10:00-11:30

**Panel discussion** (Demonstration and Training Exhibition Centre)

## Construction of high-speed railway lines in Russia as a factor for economic growth

- High-speed lines as an instrument to stimulate economic growth
- Specifics of managing such large infrastructure projects like high-speed rail
- Implementation: Success Factors

Moderator:

**Yuri Spektrov**, Managing Partner, Bain&Co Russia and CIS

Speakers:

**Alexander Misharin**, First Vice-President, Russian Railways; CEO, High-Speed Rail Lines  
**Renato Casale**, CEO, ItalFerr S.p.a

**Michel Cote**, CEO of Bouygues Construction

**Michel Leboeuf**, Adviser to President SNCF

**Dietrich Moeller**, President, Siemens in Russia and Central Asia

**Henri Poupert-Lafarge**, President, ALSTOM Transport

**Niko Warbanoff**, Head of Business Development, Deutsche Bahn AG; Chairman of the Board of Managing Directors, DB International GmbH

11:30-12:00

Coffee break (Cafe for delegates, Russian Railways Corporate University, Administrative block)

11:35-11:45

Signing of international agreements

12:00-13:30 **Panel discussion** (Demonstration and Training Exhibition Centre)

## Construction of high-speed railway lines in Russia as a factor for economic growth

(continued)

- Global experience of creating an efficient system for financial cooperation between the public and private sectors. Organisational and legal plans to implement high-speed line projects
- The Russian model of PPP: creating a system of trust between the private and public investor
- Experience of private investors' involvement in major infrastructure projects
- Plans for financing high-speed line projects around the world
- Aspects of taxation in the implementation of high-speed line projects
- Meeting obligations: how to adhere to the construction schedule and not overspend the budget
- The role and objectives of the project office
- The role of consulting companies in implementing major infrastructure projects

Moderator:

**Andrey Galiyev**, General Director. NPTV

Speakers:

**Alexander Misharin**, First Vice-President, Russian Railways; CEO, High-Speed Rail Lines

**Denis Borisov**, Managing Partner, Borisov Law Office

**Innokenty Ivanov**, Partner, Head of Practice for Infrastructure and Transport in Russia, Freshfields Bruckhaus Deringer

**Thomas Maier**, Managing Director, EBRD

**Yuri Molchanov**, Senior Vice-President, VTB

**Sergey Nekrasov**, Senior Vice-President, Gazprombank

**Evgeny Schwartz**, Director, Conservation Policy, WWF Russia

**Julian Smith**, Partner, Practice Leader in the Field of Railway and Transport Infrastructure, PricewaterhouseCoopers Russia

**Olga Revzina**, Partner, Herbert Smith Freehills

12:00-13:30 **Discussion** (Administrative block)

## Track machines: development strategy

- Development of techniques, technologies, machines and mechanisms of building infrastructure

Moderator:

**Valentin Gapanovich**, Senior Vice-President for Innovative Development-Chief Engineer, Russian Railways; President, NP Union of Industries of Railway Equipment

Speakers:

**Martin Benkler**, COO and Member of the Rhombert Sersa Group, Sersa Group Management AG

**Konstantin Danilov**, General Director, RPM Group

**Alexandra Manhart**, Sales Manager in Russia, Plasser and Theurer

**Mikhail Mavrin**, General Director, Geismar-Rus

**Stefan Mayerl**, Head, International Sales, ROBEL

**Franz Messerli**, Managing Director, Matisa

**Mikhail Permyakov**, Sales Director, Russia and CIS, Desec Ltd

**Anatoly Slyadnev**, General Director, Tehnovotum

13:30-14:00 Coffee break (Cafe for delegates, Russian Railways Corporate University, Administrative block)

14:00-15:30 **Panel discussion** (Demonstration and Training Exhibition Centre)

## Construction of high-speed railway lines in Russia as a factor for economic growth

(continued)

- Reconciliation of the incompatible: how to adapt to the Russian legislation
- Operation and maintenance of the high-speed line: best practices
- How to achieve technology localization for high-speed line
- Environmental assessment: a construction site with a human face

Moderator:

**Ernest Sultanov**, Director, Department of International Relations and Public Affairs, High-Speed Rail Lines

Speakers:

**Alexander Misharin**, First Vice-President, Russian Railways; CEO, High-Speed Rail Lines

**Flavio Canetti**, Director of business development, Bombardier

**Jocelyn Gallou**, International Development Manager, Integrated Security Systems, Engineering Department, SNCF-Infrastructure

**Rolf Epstein**, Director of Locomotives and Components Business Unit, Rail Transport Systems Division, Sector of Infrastructure and Cities, Siemens in Russia and Central Asia

**Jan Harder**, Vice-President for Rolling Stock, Russia and CIS, ALSTOM Russia

**Louis Negre**, President of the French Association of Railway Industry

**Georgy Petrushenko**, Head of Centre for Organising Fast and High-Speed Services, Russian Railways

14:00-15:30 **Section** (Russian Railways Corporate University, 2nd floor, lecture room 306-305)

## Engineering 1520: Predictive Modelling and Reducing Production Costs

- Best global practices of implementing production automation systems and optimising resources
- The introduction of Just-in-time compilation, computer-aided manufacturing and computer-aided engineering technologies
- 3D design in Russia – the transition to non-drafting technologies
- Global trends in engineering – unification of models, the use of standard platforms, design modularity
- Attracting engineering companies in order to introduce new technologies and production management methods
- Production technology audit and the development of new technologies
- The need to outsource

Moderator:

**Anton Zubikhin**, Deputy General Director for External Relations and Innovation, Sinara-Transport Machines; Vice-President, NP Union of Industries of Railway Equipment

**Olivier Giacomoni**, New Products Development Director, Transmashholding

**Stefan Hahn**, Head of Engineering, Department of Rail Transport Systems, Siemens in Russia

and Central Asia

**Andreas Lipp**, Deputy Head, Department of Design Research and Development, Ural Locomotives

**Alexander Lubyagov**, Deputy General Director, Locomotive Technology

**Sergey Morozov**, Co-Founder and CTO, Datadvance

**Alexey Okun**, Director, Department for Corporate Customers, MTE Group

**Sergey Tsybukov**, General Director, Scientific and Production Association Plastic Processing name of "Komsomolskaya Pravda"; President, Institute of Polymers

14:00-15:30 **Section** (Administrative building)

## Standardisation and Conformity Assessment on Railway Transport

- Transition to the Technical Regulations of the Customs Union, challenges and objectives
- The role of the Standards in the Technical Regulations conformity audit
- Innovative equipment certification, problems associated difficulties with the process of safety confirmation
- Standardisation programme at the final stage of preparations before introducing the Technical Regulations
- Regulatory documents for the operational stage, supervision system within the Customs Union
- The role that the harmonisation of standards plays when introducing a new stage of technical regulations
- The role of experts and the expert community in the new system of railway equipment compliance assessment within the 1520 Area
- Cost cutting opportunities in compliance assessment and safety confirmation
- European experience of the TSI conformity assessment of railway equipment
- Tests as a basis for confirming the safety of railway equipment, new approaches and testing methods; the organisation of testing procedures

Moderator:

**Vladimir Matyushin**, Vice-President, Non-commercial Partnership 'Association of Railway Equipment Producers'

Speakers:

**Valentin Gapanovich**, Senior Vice-President for Innovative Development-Chief Engineer, Russian Railways; President, NP Union of Industries of Railway Equipment

**Rolf Epstein**, Director of Locomotives and Components Business Unit, Rail Transport Systems Division, Sector of Infrastructure and Cities, Siemens in Russia and Central Asia

**Eduard Gunchenko**, Director, Certification Registrar, Federal Agency for Railway Transport

**Aleksandr Kosarev**, Deputy General Director, Russian Railway Research Institute

**Jean-Pierre Loubinoux**, General Director, International Union of Railways

**David Melikyan**, Technical Director, ALSTOM Transport Rus

**Sergey Pugachev**, Director, Department of Technical Regulation of the National Association of Builders (NOSTROY)

**Yefim Rozenberg**, First Deputy General Director, Research and Design Institute of Information, Communication and Automation in Rail Transport

**Oleg Senkovsky**, Deputy Head of the Technical Audit Centre, Russian Railways; Vice-President, Non-commercial Partnership 'Association of Railway Equipment Producers'

**Gennady Voronin**, Editor in Chief, "Standard and Quality" Magazine

**Valery Tolstov**, Technical Director, Sinara-Transport Machines

15:30-16:30 Lunch (Cafe for delegates)

16:30-18:00 **Section** (Administrative building)  
Standardisation and Conformity Assessment on Railway  
Transport (continued)

16:30-18:00 **Section** (Demonstration and Training Exhibition Centre)  
Light Rail Transport:  
Eco-friendly foundation of urban rail transport

Moderator:

**Kirill Yankov**, Economic Policy Director, Centre for Strategic Research Foundation; Chairman,  
Passengers Union International Public Organisation

Speakers:

**Juan Jose Garcia**, Area Director International Division, CAF

**Evgeny Golubev**, First Deputy Director General, TramRus

**Flavio Canetti**, Senior Director of New Business Development, Bombardier Transportation

**Roman Churakov**, Senior Lawyer for Infrastructure and PPP Projects,  
Herbert Smith Freehills CIS

**Andreas Heym**, Director of International Development, AREP; Representative of the General  
Director, Gares & Connexions Station Directorate, SNCF

**Sandra Gott-Karlbauer**, Head, City Transport Division, Siemens AG

**Sergey Parsegov**, Director, Department of Management of Investment Projects,  
Pokrovka Finance

**Andrey Shlyonsky**, Deputy General Director of Railway Technology, Uralvagonzavod

**Matthias Stohr**, Sales Director for CIS Countries, Stadler

**Tomasz Szuba**, Chairman of the Board, General Director, AO TINES

16:30-18:00 **Section** (Russian Railways Corporate University, 2nd floor, lecture room 306-305)  
Resource-Saving Technologies in Transport Engineering.  
Development of Manufacturing Systems with the use of  
“Lean Production” Tools in the Transport Industry

- Modern approaches to operational cost cutting
- The development of production systems. The experience of Russian Railways and its partners
- Introduction of resource-saving technologies to increase the efficiency of technological processes
- Ways to reduce losses in production using Lean Manufacturing tools
- Motivating and involving staff in continuous improvement

Moderator:

**Artur Akopyan**, Deputy Director of Technical Policy Department, Russian Railways

Speakers:

**Alexey Baranov**, Director, Senior Expert Consultant, Orgprom Group

**Olga Efimova**, Professor, Moscow State Railway University

**Boris Ivanov**, Deputy Director of Technical Policy Department, Russian Railways

**Alexey Kostyukov**, Technical Director, SPC Dynamics

**Elena Kropotina**, Operations Director, Rail Transport, Promzheldortrans – Service  
**Andreas Labrens**, Director of Rail Automation Division, Sector of Infrastructure and Cities, Siemens in Russia and Central Asia  
**Igor Lakin**, Head, Department of Scientific and Technological Development, TMH-Service  
**Oleg Nazarov**, Deputy General Director, Russian Railway Research Institute  
**Oleg Pertsovsky**, Director, Scientific and Technical Development of the Energy Efficiency Cluster, Fund Skolkovo  
**Yefim Rozenberg**, First Deputy General Director, Research and Design Institute of Information, Communication and Automation in Rail Transport  
**Alexey Soldatenkov**, Development Director of Business Systems, Severstal  
**Oleg Spai**, Production Director, Locomotives and Carriages, Ural Locomotives  
**Anton Vorobyev**, Chairman of the Board of the Institute of Fundamental Independent Expert, Consulting and Service; Chairman of the Subcommittee on International Standardization and Certification of the Sverdlovsk Oblast Union of Industrialists and Entrepreneurs  
**Pierre-Jean You**, Director of Production System, Transmashholding  
**Anton Zubikhin**, Deputy General Director for External Relations and Innovation, Sinara-Transport Machines; Vice-President, NP Union of Industries of Railway Equipment

# 13 September

09:00-10:00 Registration

09:30-13:00 **Scientific-practical Conference**  
**On the Occasional of the 95 Anniversary of VNIIZHT** (Hotel Grand Hall)  
**Scientific Knowledge Expressway**

10:00-11:45 **Company's Innovative Development**  
Meeting of the Target Program "Youth of Russian Railways" with Valentin Gapanovich, Senior Vice-President for Innovation Development - Chief Engineer of Russian Railways

10:00-13:00 **Third International Forum Transport Science: Innovative Solutions for Business** (Administrative building)  
**Railways 2050**

10:00-10:10 Opening  
Welcoming remarks  
**Vadim Morozov**, Doctor of Technical; First Vice President, Russian Railways

10:10-12:00 Plenary session

## Railway Transport as a Catalyst for Innovative Economic Development

- Background and the main features of the railway transport renaissance in the 21st century
- Macroeconomic and geo-economic role of railways in the context of globalisation
- The need to form a global railway development strategy until 2050
- Mechanisms for the innovative development of the industry taking into account the intensification of existing railway lines

Moderator:

**Boris Lapidus**, D.Sc. in Economics; Professor; General Director, Research and Development Institute of Railway Transport; Chairman, International Railway Research Board at the International Union of Railways

Speakers:

**Vadim Morozov**, Doctor of Technical; First Vice President, Russian Railways

**Jean-Pierre Loubinoux**, General Director, International Union of Railways

**Fyodor Pekhterev**, D.Sc. in Economics, General Director, Institute of Transport Economics and Development

**Emilio Garcia**, Technical Director, Talgo

**Alexander Korchagin**, Candidate of Economic Sciences; Director, Innovative Development Centre of JSCo Russian Railways; member of the Russian Academy of Natural Sciences

**Jan Harder**, Vice President for Main Lines, Alstom Transport Russia

**Rostislav Demin**, First Deputy Director, State Research Center Ukrainian Railways

**Dennis Schut**, Head of Research Department, International Union of Railways

**Sergey Zamyatin**, Head of Specialised Technical Engineering Division, DB System Technic

11:30-12:30 Coffee break

12:30-14:00 Session

## Drastic Cost Reduction and Acceleration in the Transport of Goods and Passengers – the Main Vectors in Railway Transport Development in the 21st Century

- The construction of mobile low-cost rail services
- The use of new materials, traction types, track structures, rolling stock and principles for their interaction to make rail transport cheaper and faster
- Removing cost barriers for the development of high-speed passenger transport
- The organisation of low-cost long-distance passenger transport
- The development of high-tonnage traffic as a tool for making bulk cargo transport cheaper
- Prospects for the development of rapid and high-speed transport for goods with high added value on railway transport

Moderator:

**Anton Ryshkov**, D.Sc. in Economics; Director, Department of Economic Conditions and Strategic Development, Russian Railways; Member, Joint Research Council, Russian Railways

Speakers:

**Dmitry Macheret**, D.Sc. in Economics; Professor; First Deputy Chairman, Joint Research Council, Russian Railways

**Marcus Montencourt**, General Director, LLC Transolutions CIS/Amsted Rail

**Andrezj Zurkowski**, Director, Railway Institute, Warsaw, Poland

**Vasily Fomin**, Doctor of Physics and Mathematical Sciences; Professor; Director, Khristianovich Institute of Theoretical and Applied Mechanics, Siberian branch of the Russian Academy of Sciences

**Oleg Nazarov**, Deputy General Director, Russian Railway Research Institute (VNIIZhT)

**Vladimir Kosoy**, Vice President, Centre for Strategic Research Foundation

**Marek Babel**, Head of Design and Construction of Rolling Stock, Krakow University, Poland

**Alexey Sokolov**, Deputy General Director, Russian Railway Research Institute (VNIIZhT), Deputy Chairman, Joint Research Council

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