

X INTERNATIONAL CONFERENCE

RAILWAY ENGINEERING:  
PROSPECTS, TECHNOLOGIES, PRIORITIES

1520  
1435

August 30 – September 1, 2017  
Shcherbinka, Moscow, Russia

## PROGRAMME

General Partner



JSC Russian Railways

Strategic Partner



Moscow Metro

Official Partner



PTK Group

Technological Partner



We are 15

Partner



Supported by



General Media Partners



news radio



publishing house





SPONSOR OF THE CONFERENCE

Organizer



## August 30 (Wednesday)

08:00	Registration Registration Sponsor 	Registration Area
09:00-10:00	Welcome Coffee	Pavilion 6
10:00-11:30 Conference Hall Pavilion 5	Discussion <b>Cyber Security</b> <ul style="list-style-type: none"><li>digital railroad and cyber safety issues</li><li>functional safety and information security: two sides of the same coin</li><li>regulations applicable to cyber safety and mission-critical systems for management in the rail sector</li><li>approaches of the International Union of Railways to railway transport cyber safety</li><li>automatic train operation and transportation security issues</li><li>cloud technologies: how to ensure data protection</li></ul> <p>Moderator: <b>Efim Rosenberg</b>, First Deputy CEO, NIIAS</p> <p>Speakers: <b>Dmitry Avramenko</b>, Head of Cyber Security Group, ICL <b>Marc Antoni</b>, Director of Rail System, International Union of Railways <b>Evgeny Charkin</b>, IT Director, Russian Railways <b>Alexander Dorofeyev</b>, Development Director, Echelon <b>Evgeny Goman</b>, Chief Engineer, ELTEZA <b>Gleb Gritsay</b>, Head, Security Services Management, Kaspersky Lab <b>Alexey Lukatsky</b>, Business Development Officer, Cisco Solutions <b>Andrey Romanchikov</b>, CEO, Regional Manager for Russia, the CIS Countries and the Baltic States, Bombardier Transportation Rail (Signal) <b>Igor Shubinsky</b>, Deputy Head of STC for Traffic Safety Systems and Process Automation, NIIAS</p>	
10:00-11:30 Administration Building	 <b>General Meeting of Members</b> <b>Non-Profit Partnership “Association of Railway Equipment Producers”</b> devoted to the 10th anniversary of the Partnership <b>Ceremony of awarding the winners</b> of the Fourth Contest of NP OPZT for the best design development	
12:00-12:30 Main Conference Hall	<b>Opening Ceremony (by invitation only)</b> The Sixth International Fair of Railway Equipment and Technologies EXPO 1520	

12:30-13:00 **Tour across the Exhibition**  
for official delegations

13:00-14:00 **Dynamic Exposition**  
for official delegations  
VNIIZHT  
Experimental Ring  
Dynamic Exposition Sponsor



13:00-15:00 Lunch

Pavilion

15:00-16:30 **Plenary Discussion**  
Main Conference Hall  
**Digital Railway. An Image of the Future**

**Sustainable development**

what factors contribute to the improvement of efficiency and reliability of rolling stock

**Data mining**

what technologies will allow preventing risks and guaranteeing reliability of the railway network

**Internet of Things**

what communication systems will be the industry standard in the post-GSM-R era

**Security and Safety**

how to mitigate the disadvantages of digitalization and act within 1520 and 1435 common standards

**Partnership**

how localization and sharing intellectual property rights promote creation of new competence centers

**Moderator:**

**Vladimir Salamatov**, CEO, Research Center "International Trade and Integration"

**Speakers:**

**Andreas Busemann**, CEO, Vossloh AG

**Jochen Eickholt**, CEO, Mobility Division, Siemens AG

**Sergey Kobzev**, Senior Vice President – Chief Engineer, Russian Railways

**Kirill Lipa**, CEO, Transmashholding

**Denis Pak**, Director, Automotive Industry and Railway Machinery Department, Ministry of Industry and Trade, Russian Federation

**Henri Poupart-Lafarge**, CEO, Alstom

**Alexey Sokolov**, First Deputy CEO for Strategy and Product, United Wagon Company; Vice President, Freight Car Builders Partnership

**Awarding Ceremony of the Russian Railways Competition**  
for the Best Quality Rolling Stock and Complex Technical Systems

16:00-17:00  
VNIIZHT  
Experimental Ring

**Dynamic Exposition**  
Dynamic Exposition Sponsor



16:30-16:45  
Main Conference Hall

**Signing of International Agreements**

17:00-18:00  
Main Conference Hall

Meeting (by invitation only)  
**Chief Engineers of the Railway Companies 1520**

18:30-21:30

**Reception**

Pavilion 6

## August 31 (Thursday)

08:00

**Registration**  
Registration Sponsor



Registration Area

09:00-10:00

**Welcome Coffee**

Pavilion 6

10:00-13:00  
Main Conference Hall

Congress of International Transport and Engineering Associations  
**Railway Equipment. Horizons of Development**



- trend analysis of scientific and technological development in the field of railway transport
- peculiarities of technical regulation in the field of railway transport in various countries
- interaction and cooperation of railway machinery enterprises

Moderator:

**Alexey Kharnas**, Editor-in-Chief, Gudok Newspaper

Speakers:

**Philippe Citroën**, Director General, European Rail Industry Association (UNIFE)

**Valentin Gapanovich**, Senior Adviser to the President, Russian Railways; President, Association of Railway Equipment Manufacturers

**Rudy De Waele**, Futurist, The Futures Agency

**Andrey Filatov**, CEO, IBM in Russia and CIS

**Jan Harder**, CEO, Molinari Rail Systems GmbH

**Edgar Keller**, CEO, ABB's Tractions

**Libor Lochman**, Executive Director, Community of European Railway

**Igor Malygin**, Director, Solomenko Institute of Transport Problems, Russian Academy of Sciences

**Volker Schenk**, President, German Railway Industry Association (VDB)

**Guo Yang**, Head of High Speed Train Project, CRRC Changchun

10:30-12:00  
Conference Hall  
Pavilion 5

Discussion

## **Supply and Demand in the Rolling Stock Market**

### **Rolling stock balancing**

how carriage decommissioning will impact both efficiency and reliability of railway engineering

### **State support**

how procurements of innovative cars are subsidized and what market players think of it

### **Individual approach**

how manufacturers and operators cooperate to schedule rolling stock renewal

### **Customer opinion**

what passengers and shippers think of the quality and condition of rolling stock

### **Export**

how producers find new markets and on what terms they are ready to sell

### **Moderator:**

**Evgeny Bogdanov**, Partner, A.T. Kearney

### **Speakers:**

**Vsevolod Babushkin**, Deputy Director, Automotive Industry and Railway Machinery Department, Ministry of Industry and Trade, Russian Federation

**Denis Ilatovsky**, Deputy CEO - Director for Logistics, SUEK

**Sergey Poryadin**, Deputy CEO for Technical Development, Chief Engineer, Federal Freight

**Alexander Sapronov**, Executive Director, Freight One

**Vladimir Sosipatorov**, CEO, First Heavy Haul Company

**Oleg Teregulov**, First Deputy Head, Technical Policy Department, Russian Railways

**Konstanrin Torubarov**, Deputy CEO, Federal Passenger Company

**Andrey Vodopyanov**, Deputy CEO, RM Rail

**Anton Zubikhin**, Deputy CEO for Sales and Government Affairs, Sinara – Transport Machines

12:30-14:00  
Conference Hall  
Pavilion 5

Round Table  RAR  
Russian Association  
of Robotics

## Robotic Technologies for Railway Sector

### Industrial robotics market

how are world and Russian robotics markets developing

### Robotics in railway sector

how are industrial robots used in car building

### Production optimization

what are the ways of production automation in railway sector

### Robots

is it efficient to use industrial robots for small-cased production

### Sensors

what are the modern methods of railways monitoring and maintenance

### Moderator:

**Vladimir Serebrenny**, Head, Robotic Systems and Mechatronics Department,  
Bauman Moscow State Technical University

### Speakers:

**Antonina Bondareva**, Director, Abagy Robotic Systems

**Artyom Fomin**, Head, Strategic Development Department, Uralvagonzavod

**Valentin Gapanovich**, Senior Adviser to the President, Russian Railways;  
President, Association of Railway Equipment Manufacturers

**Alexey Goloshchapov**, Head, Development Department, AVI Solutions

**Peter Smolentsev**, Sales Director, Kuka Systems Rus

**Alisa Koniukhovskaya**, Vice President, Russian Association of Robotics

**Vladimir Yavorsky**, Leading Expert in Automatio, Vektor Group

13:00-14:00  
VNIIZHT  
Experimental Ring

## Dynamic Exposition

Dynamic Exposition Sponsor



13:00-15:00

Lunch

Pavilion 6

14:30-16:30  
Main Conference Hall

Discussion

## Innovations for Railway Sector

### Moderator:

**Vladimir Raspopov**, Deputy Director, Industrial Development Fund

### Part 1. International Practices

#### Service life extension

how digital technologies improve the infrastructure  
and rolling stock routine maintenance process

#### Traffic management

how to optimize the railway capacity to the greatest degree possible

#### Cutting down the cost

how to apply simulation modelling techniques on the railway

Speakers:

**Vyacheslav Isaev**, Head, Business Direction for Work with Russian Railways and Railroad Engineering Enterprises, Siemens PLM Software

**Andrey Kurygin**, Head of Russian Projects, DB Engineering & Consulting

**Thomas Sutter**, Senior Expert on Traffic Management Systems, SBB

**Valery Versailles**, Head, Railway System Department, SNCF

Part 2. Technologies and Services for Railway Sector

**Track repair and track switching equipment**

which technologies extend the railway infrastructure service life

**Infrastructure**

what must be changed in normative-technical regulatory measures to implement innovations faster

**Communications**

what communication technologies improve the efficiency of business processes in railway transport

Speakers:

**Svyatoslav Afanasyev**, Development Director, PTK Group

**Denis Ershov**, Head of Research & Development Department, Murom Switch Works

**Dmitry Lozin**, Commercial Director, SAFT

**Olga Lukerchik**, Chairman of the Board, Incorporated Company "Centre of Regulation and Standardization Methodology in Construction"

**Sergey Razmakhaev**, CEO, Unify in Russia and CIS

**Mikhail Starkov**, Deputy CEO, Central Communication Facility, Russian Railways

**Alexander Zazhigalkin**, Head, Center of Innovation Development, Russian Railways

14:30-16:00

Conference Hall  
Pavilion 5

Discussion

**Repairs and Maintenance**

**Technical support**

how manufacturers improve maintenance service of new cars

**Three in one**

how producers organize the integrated service "Technical support - unscheduled maintenance - scheduled maintenance"

**Repair time**

how to reduce car disposal time and thus to ease the operators' business processes

**Rolling stock preservation**

how to improve the quality of cargo handling operations and to minimize breakage

**Service centers**

which manufacturers build their own repair plants and what operators gain from it

Moderator:

**Yury Saakyan**, CEO, Institute for Natural Monopoly Problems

Speakers:

**Gennady Averyanov**, Director, Association CENTRLACK

**Dmitry Chupakhin**, Chief Engineer, Rolling Stock Department of Central Infrastructure Directorate, Russian Railways

**Alexey Fedoseev**, Head of Customer Services, Siemens Mobility Russia

**Sergey Goncharov**, Deputy CEO for Technical Development, Chief Engineer, Freight One

**Alexander Izmaylov**, CEO, Sinara – Transport Machines – Service

**Sergey Kaletin**, President, SG-Trans

**Dmitry Losev**, Deputy CEO for Technical Development, United Wagon Company

**Vladimir Pustovoy**, Deputy CEO for Technology, LocoTech

**Igor Tyagunov**, CEO, Carriage Repair Company-2

**Andrey Vasilyev**, Commercial Director on Urban Transport Development, Transmashholding

**Denis Vodnev**, Marketing Director, Bombardier Transportation

14:30-16:00

Administration Building

Round Table

### Ecology and Resource Saving

- application of the best available technologies to ensure ecological safety
- development and implementation of the best available technologies in the field of purification and remote quality monitoring of natural and waste water in the rail sector
- management of activities aimed at the elimination of accumulated environmental damage
- waste collection systems for railroad tracks
- reducing acoustical effect of railway transport
- shimadzu-based analytical solutions for ecological and sanitary-industrial laboratories

Moderator:

**Eduard Ryabukhin**, Deputy Head of HSO Department, Russian Railways

Speakers:

**Grigory Feldshtein**, CEO, Potential-2 Research and Development Center

**Tatyana Flyantikova**, Chief Engineer, Information Technologies

**Olga Kopytenkova**, Head, Environmental Testing Center

‘Safety and Labor Protection’, St. Petersburg State Transport University

**Ludmila Pirogova**, Head, Sales Department, InterAnalit

**Oleg Saenko**, Business Architect, SISCO

**Olga Sidun**, Business Development Director, for AMT-MAYAK

**Alexey Sokolikov**, Commercial Director, Polihim

**Anatoly Sokolov**, Chief Engineer, Kuybyshev Railway

16:00-17:00

Coffee break

Pavilion 6

16:00-17:00

VNIIZHT  
Experimental Ring

### Dynamic Exposition


Dynamic Exposition Sponsor





# September 1 (Friday)

The Fifth International Forum  
**Transport Science: Innovative Business Solutions**  
(dedicated to the 85th anniversary of test loop of VNIIZHT)

09:00	Registration Registration Sponsor 	Registration Area
10:00- 10:30	Welcome Coffee	Administration building
10:30-12:30 Administration building	<b>Plenary Session</b> <b>Tests of Railway Technic – a Variety of Experience, Effective Solutions, Innovative Perspectives</b> <ul style="list-style-type: none"><li>• Importance of test quality to ensure reliability and efficiency of railway technics</li><li>• Scientific support of railway technics testing</li><li>• Efficiency of long-term interaction of manufacturers of railway technics and test fields</li><li>• Cooperation of railway test fields – advantages and possibilities</li><li>• Integrated tests of infrastructure and rolling stock: importance, organization, effects</li><li>• Human resources for tests of railway technics</li></ul> <p>Moderator: <b>Boris Lapidus</b>, Chairman, Russian Railways Joint Scientific Council; Chairman, International Railway Research Board (IRRB), UIC</p> <p>Speakers: <b>Antonin Blazek</b>, Technical Director, VUZ <b>Oliver Hagemann</b>, Director, Siemens Test and Validation Centre <b>Jan Harder</b>, CEO, Molinari Rail Systems GmbH <b>Ki-Hwan Kim</b>, President, Korea Railroad Research Institute <b>Sergey Kobzev</b>, Senior Vice President – Chief Engineer, Russian Railways <b>Sergey Pokrovsky</b>, Technical Director, First Locomotive Company <b>Efim Rozenberg</b>, First Deputy CEO, NIIAS <b>Alexander Savin</b>, Deputy CEO – Head of the Test Center, VNIIZHT <b>Guanqun Song</b>, Deputy Head, China Academy of Railway Sciences <b>Victor Stepov</b>, CEO, VNIIZHT <b>Andrzej Żurkowski</b>, Director, Railway Institute</p>	Administration building
12:30- 13:00	Coffee break	Administration building

13:00-15:30  
Administration  
building

## Round Table

### Computer Simulation – Alternative or an Additional Tool to Testing

- Mathematic simulation for estimation of parameters of railway technics: possibilities and unsolved problems
- Replacement of tests by simulation – effects and risks
- Combining of tests and simulation
- Selection of optimal simulation methods for estimation of railway infrastructure and rolling stock

Moderator:

**Boris Lapidus**, Chairman, Russian Railways Joint Scientific Council;  
Chairman, International Railway Research Board (IRRB), UIC

Speakers:

**Alexander Artemyev**, CEO, METKATOM

**Alexander Bugaev**, Deputy Director, Institute of Radioengineering and Electronics,  
Russian Academy of Sciences, Member, Russian Academy of Sciences

**Sergey Dubinsky**, Deputy Head of Center for Mathematical Modeling, VNIIZHT

**Irina Goryacheva**, Member, Russian Academy of Sciences; Chairman,  
Cross-Sectoral Scientific Board on Tribology, Ministry of Education and Science

**Sergey Ivashov**, Head, Laboratory of Remote Sensing,  
Bauman Moscow State Technical University

**Valery Kossov**, CEO, VNIKTI

**Sergey Kuznetsov**, Engineer-in-Chief, BET

**Anna Kuznetsova**, Leading Engineer, Tensor Innovative Solutions

**Nikolay Lyabakh**, Deputy Director, NIIAS branch in Rostov-on-Don

**Nikolay Makhutov**, RAS Correspondent Member, Senior Researcher,  
RAS Mechanical Engineering Research Institute

**Igor Petrov**, Head, Department of Informatics and Numerical Mathematics,  
Moscow Institute of Physics and Technology, Russian Academy  
of Sciences Correspondent Member

**Vyacheslav Solovyov**, Chief Research Officer, Russian Federal Nuclear Center  
- All-Russian Research Institute of Experimental Physics

**Oleg Suslov**, Director, Scientific Center Track Infrastructure  
and Wheel-Rail Interaction, VNIIZHT

**Grigory Volokhov**, Head of the Division, VNIKTI

**Maxim Zheleznov**, Deputy CEO – Head, Research and Educational Complex, VNIIZHT

15:30-17:30

Celebration Dinner

Administration building

13:00-14:00

Dynamic Exposition

16:00-17:00

Dynamic Exposition Sponsor

VNIIZHT  
Experimental Ring

