



2nd International Scientific Discussion on Current Issues - Topics of European Railway Research

**2nd International Scientific Discussion on Current Issues
- topics of European Railway Research** to be held on:

**October 4th 2018 in Prague
Grandior Hotel Prague**

Na Florenci 29, 110 00 Praha 1/Na Poříčí 42, 110 00 Praha 1

Motto: Substantiated development of the European railway system using the results of R & D activities and the follow-up activities of railway industrial and operational practice as a key means of enhancing the competitiveness and commercial success of railway transport, with the aim of contributing to highlighting the share of primarily Czech universities in research and development projects results particularly useful for supporting the development of high-speed railway lines in the Czech Republic, with a view to improving and modernizing teaching at universities and secondary vocational schools corresponding to the current requirements of further developing the function of the European railway system.

Invitation to the 2nd International Scientific Discussion

The Technology Platform “Interoperability of Railway Infrastructure” decided on the organization of the International Scientific Discussion and prepared the program of the

2nd International Scientific Discussion on Current Issues - topics of European Railway Research to be held on:

Date: October 4th 2018 in Prague

Location: Grandior Hotel Prague, Na Florenci 29, 110 00 Praha 1/Na Poříčí 42,
110 00 Praha 1

The International Scientific Discussion negotiation language is English.

Preparatory Committee:

prof. Ing. Ondřej Jiroušek, Ph.D., Ing. Jaroslav Grim, Ph.D., Ing. Ivo Malina, CSc.

Information:

Email: sekretariat@sizi.cz

We look forward to meeting you at the 2nd ISD

The 2nd International Scientific Discussion is co-financed by the European Regional Development Fund, OPEIC

Project: Interoperability - the innovative process of competitiveness of a sustainable rail system (CZ.01.1.02/0.0/0.0/15_037/0007029)



EVROPSKÁ UNIE
Evropský fond pro regionální rozvoj
Operační program Podnikání
a inovace pro konkurenceschopnost



NÁRODNÍ TECHNOLOGICKÁ PLATFORMA
Interoperabilita železniční infrastruktury
CZECH TECHNOLOGY PLATFORM
Interoperability of Railway Infrastructure

Programme of the 2nd International Scientific Discussion (ISD)

9.00 - Registration of participants

9.30 - Opening of the International Scientific Discussion

prof. Ing. Ondřej Jiroušek, Ph.D. – Chairman of the Scientific Council of Technology Platform

According to the time schedule of the ISD,
lunch break will be pre-arranged **at 12.30**

A. **Presentations of the Technology Platform representatives - organizers of the ISD**

Starting from **10 AM**

1. Characteristics of the professional equipment of Czech railway research and development represented by members of the Technology Platform - universities, research and project institutes and research and development departments of industrial members of the Technology Platform
doc. Ing. Otto Plášek, Ph.D. – Deputy Chairman of Technology Platform Management Board
2. Development plans of Czech railway transport with prior research and development solutions required
prof. Ing. Ondřej Jiroušek, Ph.D. – Chairman of the Technology Platform Scientific Board

B. **Presentations of foreign partners responding to the content of the statements of the Technology Platform representatives, but above all mentioning the main „European starting points“ following the focus of the ISD**

1. The intentions and objectives of implementing the Single European railway area based on the EU market and technical regulatory framework and supported by the results of European railway research
Ing. Libor Lochman, Ph.D. – Executive Director of CER

I. **Discussion Block**

2. The role of the Shift2Rail Joint Undertaking in supporting and managing European rail research provided in line with the objectives of the “S2R Innovation Programs” under the European Horizon 2020 Program, including the idea of a follow-up “post-2020”
Dr. Carlo Borghini – Executive Director of the S2R Joint Undertaking

3. European railway transport development plans exploiting the results of railway research and development provided within the framework of UIC activities
Ing. Jozef Fázik – project manager of International Union of Railways (Chargé de Mission)

II. Discussion Block

- C. **Statement of foreign representatives - participants of the ISD to the share of Czech railway research and development capacities concentrated in the Technology Platform in joint projects (international, European)**
 1. Cooperation on projects of the Joint Undertaking S2R in the Horizon2020 Programme. Example of cooperation of Czech partners in the European project “New Generation of Switches & Crossings Design”
Representative of the Birmingham Centre for Railway Research and Education
 2. Cooperation of Austrian and Czech partners on the development of high-speed and high-capacity railway transport using the results of science and research
Ing. Viktor Plank – Senior Expert Asset Management and Strategic Planning

III. Discussion Block

- D. **Objectives whose enforcement can greatly contribute to improving the functioning of the European railway system**
 1. Use of satellite navigation in railways - current status and future opportunities
Dr. Daniel Lopour - The European GNSS Agency (GSA)

Summary - final discussion

Conclusions from the International Scientific Discussion

prof. Ing. Ondřej Jiroušek, Ph.D. – Chairman of the Technology Platform Scientific Board

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