

Topics

- Rail vehicle dynamics
- Wheel–rail interaction
- Traction mechanics
- Bogie design
- Computer simulation
- Testing and certification of rail vehicles
- Automatic train operation
- Condition monitoring

The Rolling Stock Summer School will include a computer session on vehicle dynamics simulation, and a visit to the labs with demonstration of roller rig testing.



We will also organize a technical visit to the test centre of VUKV near Velim. The company VUKV deals with design and testing of railway vehicles and is active in research projects as well.



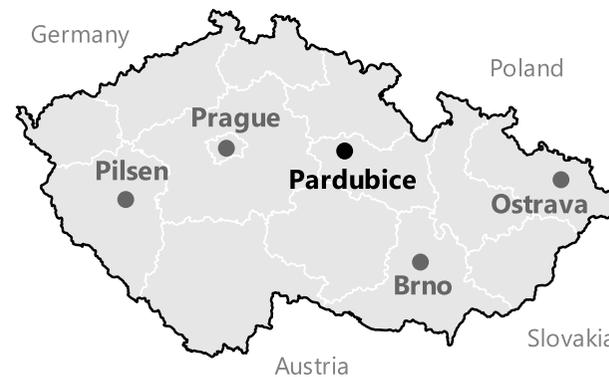
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UNIVERSITY
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FACULTY
OF TRANSPORT
ENGINEERING

ROLLING STOCK SUMMER SCHOOL



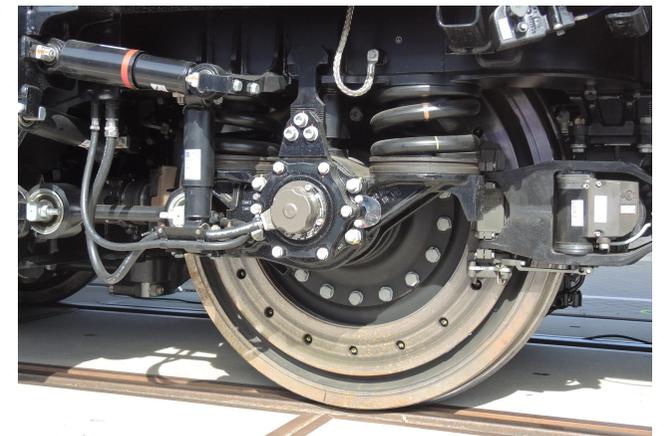
31 August – 4 September 2026

University of Pardubice
Pardubice, Czechia

Address

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Faculty of Transport Engineering
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Czechia

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Overview

An introductory short course is being offered for European Railway Engineering students starting a postgraduate degree in a rolling stock related topic and for researchers starting their career in the railway industry. Lectures will be given by experts from universities and industry across Europe, on topics related to their expertise and experience. The latest theoretical developments will be covered as well as current practice in the areas of design, manufacturing and operation of railway vehicles and also wider issues connected with rail transport.

In previous years, the Rolling Stock Summer School was held in Cracow, Poland (2010, 2012, 2014) and in Lecco, Italy (2016, 2023). For the sixth event, we will be meeting in Pardubice, Czechia. The aim is to provide students with a broad introduction to the field from practicing experts and also to give an insight into the latest research being carried out in several areas. The course also aims to build up links between different institutions across Europe and to provide students with an initial network of contacts that should be useful throughout their career.

Registration fee

The estimated registration fee is about 650 € per person. This will include all lectures and seminars, course material, meals (lunch, dinner) and transport for the technical visit.

Pre-registration is now open

If you are interested in attending, please send an e-mail to rsss2026@upce.cz including your name, institution and position before 30 April 2026.

The pre-registration is non-binding on both sides.

The summer school is intended for no more than 28 participants.

Location

The Rolling Stock Summer School 2026 will take place in Pardubice, Czechia. Pardubice, nicknamed "City of gingerbread", is situated in East Bohemia, about 100 km from Prague and is easily accessible by rail and road.

The foundation of university education in Pardubice is linked to chemical industry. Today, the University of Pardubice has seven faculties, including the Faculty of Transport Engineering. In the Czech version of its name, the faculty honors the railway engineer Jan Perner (1815–1845) who was responsible for construction of several major railway lines in the Austrian Empire.



Accommodation

Accommodation for participants will be provided in the university's halls of residence on campus. Hotels in the city are also an option. Accommodation is not included in the registration fee.

Organisers

Prof. Stefano Bruni
Politecnico di Milano, Italy

Prof. Simon Iwnicki
University of Huddersfield, UK

Dr. Tomáš Michálek
University of Pardubice, Czechia

Dr. Petr Voltr
University of Pardubice, Czechia

Other lecturers (provisional list)

Dr. Jan Čapek
VUKV, Czechia

Prof. Carlos Casanueva Perez
KTH, Sweden

Prof. Egidio Di Gialleonardo
Politecnico di Milano, Italy

Dr. Christine Funfschilling
SNCF, France

Dr. Ingo Kaiser
Universidad Nebrija, Spain

Dr. Ivo Myslivec
AŽD, Czechia

Prof. Oldrich Polach
formerly Bombardier Transportation, Switzerland

Prof. Jordi Vinolas
Francisco de Vitoria University, Spain