UNIVERSITY OF PARDUBICE
FACULTY OF TRANSPORT ENGINEERING

Invitation to Doctoral Colloquium

The Doctoral Colloquium will take place on June 13, 2025, starting at 9:00 AM, according to the schedule below. The presentations will be held in room DB/B3.

The schedule 13. 6. 2025

9:00 – 9:05	**OPENING OF THE DOCTORAL COLLOQUIUM**	
9:05 – 9:20	prof. Ing. Eva Schmidová, Ph.D.	Phase Transformation in RCF Response of Materials
9:20 – 9:35	doc. Ing. Libor Švadlenka, Ph.D.	City logistics
9:35 – 9:50	doc. Ing. Özgür Yurdakul, Ph.D.	Quantifying Disaster Impact: Loss Function Approaches for Natural Hazards
9:50 – 10:05	doc. Ing. Petr Voltr, Ph.D.	Activities of the Rail Vehicles research team in 2024
10:05 – 10:20	**BREAK**	
10:20 – 10:30	Ing. Radek Vrba	Optimization of e-commerce parcel delivery in urban areas with respect to customer requirements
10:30 – 10:40	Ing. Petr Kučera	The Blocking-Time Theory for Automatic Route Setting
10:40 – 10:50	Ing. Tomáš Gajdoš	Dynamic pulse buckling
10:50 – 11:00	Ing. Lukáš Křižan	Using Petri nets for railway traffic simulation
11:00 – 11:10	Ing. Dominic Kwakye Ampong	Rail-enabled urban logistics
11:10 – 11:20	Ing. Filip Moučka	Possibilities for applying Dutch cycling measures on rural roads in the Czech Republic
11:20 – 11:30	Ing. Jan Pulda	Improvements of a Measuring System Used on a Roller Test Rig
11:30 – 12:30	**BREAK**	

12:30 – 12:40	Ing. Antonín Suk	Interdisciplinary approach to street classification and design
12:40 – 12:50	Ing. Michaela Novotná Postupová	Location of shared micro-depot for CEP services
12:50 – 13:00	Ing. Martin Šturma	Automation of Railway Traffic Control in the ETCS Environment - Traffic Conflict Elimination
13:00 – 13:10	Ing. Josef Šedivý	Distribution Problems in Logistic Systems
13:10 – 13:20	Ing. Alžbeta Hrudková	Using regression analysis and machine learning to predict rail passenger demand
13:20 – 13:30	Ing. Filip Baran	The Impact of Regional Railway Network Topology on High-Speed Rail Integration
13:30 – 13:40	Ing. Zdeněk Sháněl	Damage states and flood effects on bridges