

9:00 – 9:15

Welcome speech

**Bouchner Petr** (FTS, CTU in Prague)

9:15 – 9:45

About project RESICITIES

**Costa Jordao Ticiano** (FTS, CTU in Prague)

## Section 1: Innovative Solutions and Safety

9:45 – 10:45

Safety aspects of e-cars charging

**Štěrbá Roman, Cigánek Jiří**

(FTS, CTU in Prague)

Passive safety testing of light vehicles – Initial validation of the proposed methodology using FEM  
Gear Ration Optimization of Single And Two-Speed Transmission For an Electric Motorcycle  
Electric Vehicle Charging Considerations: Pre-Implementation Analysis

**Čenkner Michal, Toman Přemysl, Svoboda Josef** (FTS, CTU in Prague)

**Heřmanová Jolana** (FME, CTU in Prague)

**Frankhuizen Nico** (ROCSYS, NL)

10:45 – 11:05

Coffee break

## Section 2: Driving Simulators, HMI and Testing

11:05 – 12:05

Optimizing Timing for Emergency Vehicle Approach Warnings

**Weibull Kajsa, Lidestam Björn,**

**Prytz Erik** (VTI, SE)

Augmented Emergency Lighting

**Lidestam Björn, Lindblad Philip, Ondomiši Petr, Sörengård Emilia, Weibull Kajsa** (VTI, SE)

**Leistner Jan** (FTS, CTU in Prague)

Autonomous driving with a focus on HMI for parallel parking maneuvers  
Assessment of the influence of music genres and sound intensity on driver response and active safety in vehicle

**Magdziak-Tokłowicz Monika** (WUST, PL)

12:05 – 13:15

Lunch

## Section 3: Biosensorics & Informatics

13:15 – 14:15

System for physiological monitoring and tracking the direction of the driver's gaze in the vehicle cabin  
Development of non-invasive miniaturized optical sensor for blood pressure sensing  
Testing of a complex information system built on API  
Sleep analysis – Automatic detection of sleep spindles by neural networks

**Kliment Radim** (FBE, CTU in Prague)

**Vítězník Martin** (FBE, CTU in Prague)

**Sliacky Milan** (FTS, CTU in Prague)

**Rychlík Jan** (DCSE, UWB in Pilsen)

14:15 – 14:30

Coffee break

## Section 4: Urban Mobility and Sustainability

14:30 – 15:45

Drivers and Instruments of Knowledge and Technology Transfer in the automotive sector – a comprehensive review for the Czech Republic and the Free State of Saxony  
Assessing Time and Financial Costs of Bus Delays in the Ústí nad Labem Region, Czech Republic  
Digital reconstruction of real (near) accidents of vulnerable road users (VRU) in the Czech Republic – modern technology brings new perspectives  
An Examination of Driving Speed: The Role of Perceivable Road Characteristics in Towns  
Use and access possibilities in the field of training future drivers using a vehicle simulator

**Michel-Schneider Ulrike**

(FCE, CTU in Prague)

**Scháno Martin, Dvořáčková Alexandra** (FTS, CTU in Prague)

**Piksa Ondřej, Ritter Jan, Drbohlav Pavel, Petrán Tomáš** (FTS, CTU in Prague)

**Scháno Martin, Nový Josef, Krejčí Dan** (FTS, CTU in Prague)

**Topol Libor** (FTS, CTU in Prague)

15:45 – 16:15

Poster session and networking

**Bouchner Petr** (FTS, CTU in Prague)