

Join the Session via Zoom

Session 5

Online presentations

3 October 2025, 9.00 - 15.00

Chairman - Prof. S. Kilikevičius

Co-Chairman - Dr. R. Makaras

9.00 — 15.00	Session	
11.00 — 11.20	Coffee Break	
13.00 - 13.30	Coffee Break	

A Thermal Analysis of a Hopper-Type Container Design

A. Lovska, J. Gerlici, J. Dižo, University of Žilina (Slovak Republic)

Design of the Wedge Lifting and Chainsaw Operation Mechanism as Part of the Semi-Automatization of a Mobile Working Machine

M. Blatnický, <u>J. Dižo</u>, **A. Lovska**, University of Žilina (Slovak Republic), **S. Semenov**, Volodymyr Dahl East Ukrainian National University (Ukraine)

Features of a Container Design Consisting of a Truss Frame

J. Gerlici, <u>A. Lovska</u>, University of Žilina (Slovak Republic), **M. Pavliuchenkov**, O.M. Beketov National University of Urban Economy in Kharkiv, Sumy National Agrarian University (Ukraine)

A Modification of a Locomotive Bogie Frame

M. Bučko, K. Kravchenko, A. Lovska, J. Dižo, M. Blatnický, University of Žilina (Slovak Republic)

Experimental Assessment of Temperature and Speed Effects on Hyundai Kona Electric Driving Range and Energy Consumption

<u>A. Hnatov</u>, Kharkiv National Automobile and Highway University (Ukraine), **Shch. Arhun**, Kharkiv National Automobile and Highway University (Ukraine), University of Birmingham (United Kingdom), **V. Migal**, State Biotechnological University (Ukraine)

Features of Electric Vehicle Diagnostics Using the Car Scanner ELM OBD-II Application

<u>A. Hnatov</u>, Kharkiv National Automobile and Highway University (Ukraine), **Shch. Arhun**, Kharkiv National Automobile and Highway University (Ukraine), University of Birmingham (United Kingdom), **N. Hryhorenko**, Kharkiv National Automobile and Highway University (Ukraine), **S.-A. Mitoulis**, University of Birmingham (United Kingdom)

Modern Technologies in Railway Applications

M. Andrzejewski, Association of Railway Transport Experts and Managers, <u>M. Nowak</u>, Poznan University of Technology, **P. Knast**, The President Stanislaw Wojciechowski Calisia University (Poland)

Enhancing Battery Charging Efficiency in Vehicles Under Low-Speed Operating Conditions Using Harmonic Energy Recovery

<u>S. Arhun</u>, V. Dvadnenko, A. Hnatov, Kharkiv National Automobile and Highway University (Ukraine)

Investigation of Dosage Non-Repeatability of an LPG Injector in Various Stages of Wear

<u>R. Popławski</u>, **D. Szpica**, Bialystok University of Technology (Poland), **M.R. Oliveira Pañão**, University of Coimbra (Poland)

Extending the Service Life of Railway Transport Wheels Based on the Strategy of Partial Reprofiling and Optimisation of the Rolling Surface

<u>S. Sapronova</u>, National Transport University, **O. Vorobjov**, Volodymyr Dahl East Ukrainian National University, **E. Zub**, **S. Syvakivskiy**, National Transport University (Ukraine)

Experimental Performance Evaluation of the Differential Section of a Prototype Pneumatic Brake Valve M. Kisiel, D. Szpica, Bialystok University of Technology (Poland)

Reliability Assessment of the Outer Surface of the ICE Piston Skirt Based on the Material Creep Limit Criterion V.V. Pylyov, A. Marchenko, O. Linkov, National Technical University "Kharkiv Polytechnic Institute", S. Lykov, SE "MALYSHEV PLANT" (Ukraine)

Features of the Experimental Study of the Processes of Thermal Preparation of an Internal Combustion Engine Using a Phase Transition Heat Accumulator

D. Pohorletskyi, N. Pohorletska, Kherson State Maritime Academy, M. Skalyha, Lutsk National Technikal University,
V. Chernenko, Yu. Losynsky, A. Kotov, Kherson State Maritime Academy (Ukraine)

Setting the All-mode Electronic Speed Regulator for Automotive Diesel

O. Verbovskyi, The Gas Institute of the National Academy of Sciences of Ukraine, A. Lisoval, National Transport University, H. Zhuk, V. Verbovskyi, The Gas Institute of the National Academy of Sciences of Ukraine, A. Dzygar, Kherson State Maritime Academy (Ukraine)

Features of Computational Analysis of a Contact-Type Heat Accumulator in an ICE Thermal System

<u>Yu. Grytsuk</u>, National University of Ostroh Academy, **A. Yurzhenko**, **O. Volska**, **A. Leshchenko**, **O. Litikova**, Kherson State Maritime Academy, **S. Dotsenko**, Admiral Makarov National University of Shipbuilding (Ukraine)

Vibration and Stability Analysis of Variable-Section Composite Beams as Structural Members in Transport Systems

<u>V.N. Burlayenko</u>, S.D. Dimitrova-Burlayenko, G.I. Lvov, National Technical University "Kharkiv Polytechnic Institute" (Ukraine)

KPI for Evaluating Overtaking Maneuvers in Railway Traffic

T. Vyčítal, L. Křižan, M. Vyhnanovský, University of Economics and Management (Czech Republic)

Development of a Multifunctional Transport and Technological Machine Based on a Passenger Car

R. Zaripov, R. Elzhan, Torighyrov University (Kazakhstan), P. Gavrilovs, Riga Technical University (Latvia)

Quo Vadis Silesian Interurban Trams?

A. Soczówka, P. Chyliński, Railway Research Institute (Poland)

Study of Energy Consumption of an Electric Bus Operating in Lithuania – The Case of Kaunas City

<u>R. Makaras</u>, Kaunas University of Technology, **M. Natanas**, ALTAS Commercial Transport, **U.K. Medževeprytė**, Kaunas University of Technology (Lithuania)