

DECISION
of the 3rd International Scientific and Practical Conference
"Energy-optimal Technologies, Logistics and Safety in Transport "

Venue: Lviv, Lviv Polytechnic National University.

Date: November 9-10, 2023

Co-organizers of the conference were:

- Lviv Polytechnic National University;
- Ukrainian State University of Science and Technologies;
- Faculty of Transport of the Warsaw University of Technology;
- Railway Research Institute (Warsaw).

The conference was held under the patronage of the Reform Support Team of the Ministry for Communities, Territories and Infrastructure Development of Ukraine as well as JSC Ukrzaliznytsia.

The following organizations became partners of the conference:

- TÜV Rhineland Polska (Poland);
- LLC „Amadeus-Marine” (Ukraine);
- LLC „Tabor-Dębica” (Poland);
- LLC „Mykolaiv Locomotive Repair Plant” (Ukraine);
- LLC „H. Cegielski – Fabryka Pojazdów Szynowych” (Poland);
- LLC „Halytska Transport Company” (Ukraine);
- LLC „SKPL Cargo” (Poland);
- LLC „Bureau IRIS” (Ukraine);
- LLS „Railway SafeLine Partners” (Ukraine);
- NGO „Line 102.Ua” (Ukraine).

The international scientific and practical conference "Energy-optimal technologies, logistics and safety in transport" **took part in:**

- a delegation of the Ministry of Development of Communities, Territories and Infrastructure of Ukraine headed by Deputy Head of the Department of Technical Regulation of Transport Ruslan Kyrychenko;
- the delegation of JSC "Ukrzaliznytsia" led by the director of development and innovation, director of the Department of Innovations, Technical Development and Quality Management of JSC "Ukrzaliznytsia" Ivan Ostapchenko.

The scientific committee of the conference received a total of 72 scientific works, of which 49 scientific works were recommended for publication in the scientific publication Matec Web of Conference, 23 scientific works were recommended for publication in the scientific publication EOT, based on the results of independent anonymous review by two reviewers.

Number of conference participants

- the first day: directly - 82, online - 73;
- the second day: directly - 60 and online - 65.

Students of the Lviv College of Transport Infrastructure and the Institute of Mechanical Engineering and Transport of the Lviv Polytechnic National University were also present.

Number of countries whose representatives participated in the conference: 6 countries - Ukraine, Poland, Lithuania, Latvia, Slovakia, Germany.

The number of researchers and educational institutions that presented scientific articles at the conference is 182 researchers and 24 educational institutions (17 Ukrainian and 7 foreign).

The number of representatives of state institutions and transport enterprises who represented at the conference - 32 participants from 19 state institutions and transport enterprises of Ukraine, including 4 foreign enterprises.

Number:

speeches within sections – 68 speeches;

practical reports within the framework of the workshop - 5 on relevant topics for the development of railway safety and compatibility of railway transport.

Representatives of the following scientific organizations and educational institutions gave their reports:

Ukrainian high educational institutions:

Lviv Polytechnic National University
Ukrainian State University of Science and Technologies
Volodymyr Dahl East Ukrainian National University
State University of Infrastructure and Technologies
Ukrainian State University of Railway Transport
Oles Honchar Dnipro National University
National University "Zaporizhzhia Polytechnic"
Lutsk National Technical University
National Transport University
National Aviation University
National University «Odesa Maritime Academy»
West Ukrainian National University
University of Customs and Finance
National Technical University "Kharkiv Polytechnic Institute"
O.M. Beketov National
University of Urban Economy in Kharkiv
State Higher Education Institution „Pryazovskyi State Technical University”
Odessa State Agrarian University

Foreign high educational institutions:

TUD Dresden University Of Technology, Germany
Warsaw University of Technology, Poland
Railway Research Institute, Poland
Poznan University of Technology, Poland
Vilnius Gediminas Technical University, Lithuania
University of Ljubljana, Slovenia
Silesian University of Technology, Poland

Institutions:

Ministry for Communities, Territories and Infrastructure Development of Ukraine
Institute of Technical Mechanics of the NAS and SSA of Ukraine
Lviv Research Institute of Forensic Science of the Ministry of Justice of Ukraine

Enterprises:

JSC "Ukrainian Railway", Ukraine;
LLC „Mykolaiv Locomotive Repair Plant”, Ukraine;
LLC "Amadeus Marine", Ukraine
LLC „Halytska Transport Company”, Ukraine;
- LLC „Tabor-Dębica”, Poland
TÜV Rheinland Polska, Poland
PJSC "Kryukovsky Railway Car Building Works", Ukraine
PJSC "DNIPROVAGONMASH", Ukraine
JSC "Dniprovsky plant for repair and construction of passenger cars", Ukraine
LLC "Bureau IRIS", Ukraine
LLC "Certification Expert Center ASU", Ukraine
LLC "ACREDO CONSULT", Ukraine
JV "Lviv Regional Expert Technical Center" branch of NDKTI, Ukraine
LLC "Lemtrans", Ukraine
LLC "UPK", Ukraine

LLP Central factory laboratory Lviv APP, Ukraine

At the conference, the research results were presented at the following scientific directions:

- interoperability and safety,
- energy saving and energy efficiency,
- environmental safety,
- barrier-free access to transport infrastructure,
- logistics,
- modeling and computer engineering,
- modernization and repair of transport facilities,
- materials science and determining the resource of structural elements.

Based on the results of the reports and discussions of the conference participants, the following conclusions were obtained:

1. Joint proposals for the road map of the post-war reconstruction of the infrastructure of the transport industry following national and European standards were developed;
2. Strengthening of the ties of the research laboratories of the University "Risks and Safety in Transport", "Service-Office for Engineering Materials Science" and "Transport Systems" with the business of the transport industry was achieved;
3. The range of cooperation with foreign partners has been expanded to create international research groups, conclude bilateral and multilateral agreements with foreign scientific institutions and institutions of higher education.
4. The relevance of the use of modern information technologies and research into the prospects for the development of various types of transport is emphasized.

Based on the results of the conference, it was decided:

1. To recommend for publication in the electronic publication MATEC WEB of Conference 49 scientific articles on the topics presented by the participants of the conference, received two positive reviews in the presence of a signed publication agreement.
2. To recommend the scientific divisions of the conference organizers to develop areas of cooperation on the subject of the conference.
3. To recommend the enterprises of the transport complex to develop cooperation in the direction of scientific and technical research in the field of transport infrastructure, international transportation, logistics, certification, transport design, increasing the level of safety in transport, taking into account global trends and the needs of the development of the transport industry.
4. Consider the possibility of organizing the next International scientific and practical conference "Energy-optimal technologies, logistics and safety in transport" on the basis of the National University "Lviv Polytechnic" in November 2025.

Co-chairs of the Program Committee:

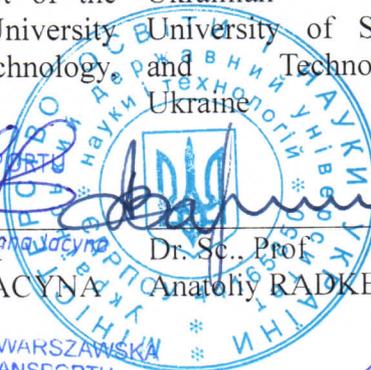
Vice-rector for scientific work of Lviv Polytechnic National University, Ukraine	Dean of the Faculty of Transport of the Warsaw University of Technology, Poland	First vice-rector of the Ukrainian State University of Science and Technologies, Ukraine	Director of the Railway Research Institute, Poland doctor of science, engineer,
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