

28-04-2022

CONFERENCE

PROGRAM

**INTERNATIONAL SCIENTIFIC CONFERENCE
ENGINEERING AND EDUCATIONAL
TECHNOLOGIES 2022: SMART SOLUTIONS
FOR SUSTAINABLE DEVELOPMENT**



PROGRAM

Conference is moderated by
PhD. Lina Girdauskienė

Connection: Join Zoom Meeting <https://liedm.zoom.us/j/81900765028>

Meeting ID: 819 0076 5028

10.00 - 10.15

KTK Director Nerijus Varnas

9.45 – 10.00

Connection

10.20 - 10.35

**SUSTAINABLE ENGINEERED TIMBER SYSTEMS IMPLEMENTATION
IN EU HEI AND INTEGRATION INTO PROJECT BASED LEARNING
METHODOLOGY (PBL)**

Vijoleta Šulcienė, Architect, International Project coordinator, Roger
Howard Taylor, Senior Lecturer in Design & Construction, VIA University
College, Denmark

10.40 - 11.00

**POTENTIAL AND ROLE OF ENGINEERING AND TECHNOLOGY
INDUSTRY IN THE GROWTH OF LITHUANIAN ECONOMY**

Darius Lasionis, Engineering and Technology Industries Association of
Lithuania LINPRA, director

11.05 - 11.30

**DELIVERING QUALITY THROUGH ONLINE LEARNING AND THE
BENEFITS OF HIGHER LEVEL APPRENTICESHIPS**

Mark Dawe, Chief Executive, The Skills Network

11.30-12.00

Technical break

12:00 -14:00

Work in scientific groups

Innovations in Road Construction Industry

Moderator PhD. Raimondas Šadzevičius

Connection: Join Zoom Meeting <https://litedm.zoom.us/j/87511786277>
Meeting ID: 875 1178 6277

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- 1. Arvydas Čibirka (Kelprojektas, Lithuania).**
OVERVIEW OF NEW INFRASTRUCTURE PROJECTS.
 - 2. Arturas Acylovas (Tyrens AB, Sweden).**
ROAD DESIGN INNOVATIONS.
 - 3. Justas Petkevičius, Rytis Mušauskas, Tomas Blažiūnas (UAB INHUS Engineering, Lithuania).**
REDUCING RISKS WITH VIRTUAL DESIGN AND CONSTRUCTION (VDC) FOR THE LONGEST SPAN TRUSS RAILWAY BRIDGE IN LITHUANIA
 - 4. Raimondas Šadzevičius, Dainius Ramukevičius, Yuriy Biks (KTK, KMAIK, Lithuania, Vinnytsia National Technical University, Ukraine).**
DESIGN FEATURES OF COASTAL PROTECTION STRUCTURE IN LAKES.
 - 5. Mantas Balčytis (VDU, Lithuania).**
ANALYSIS OF SOLUTIONS FOR RAILWAY CULVERT RECONSTRUCTION.
 - 6. Vincas Gurskis, Rasa Minkštimienė (KTK, VDU, Lithuania).**
EVALUATION OF TECHNICAL CONDITION OF HYDROTECHNICAL STRUCTURES OF ŠIRVINTOS DISTRICT MUNICIPALITY.
 - 7. Mantvydas Malinauskas, Kęstutis Vitkauskas (KTK, Lithuania).**
PROBLEMS OF ROAD INFRASTRUCTURE MANAGEMENT.
 - 8. Regina Motienė, Algirdas Virkšas (KTK, Lithuania).**
ANALYSIS AND EVALUATION OF ENGINEERING SOLUTIONS FOR THE SELECTION OF ALTERNATIVE ASPHALT MIXTURES.
 - 9. Regina Motienė, Linas Bražionis (KTK, Lithuania).**
ANALYSIS OF ALTERNATIVE SOLUTIONS AND MULTI-CRITERIA ASSESSMENT IN REGULATING TRANSPORT FLOWS DURING ROAD RECONSTRUCTION.



Innovations in Modern Construction Industry

Moderator PhD. Rosita Norvaišienė

Connection: Join Zoom Meeting <https://litedm.zoom.us/j/82324062735>
Meeting ID: 823 2406 2735

- 1. Lolita Dalbokaitė, Aidas Beržėnas, Paulius Mičiulis, Iveta Puikytė (KTK, Lithuania).**
PRESENTATION OF THE KTK CENTRAL BUILDING DIGITAL MODEL.
- 2. Anna Mesiarikova, Rosita Norvaišienė (KTK, Lithuania, VIA University College, Denmark).**
COMPARISON OF DIFFERENT TYPES OF SUSTAINABLE WALL CONSTRUCTIONS WITH FOCUS ON CO2 EMISSIONS IN LITHUANIA.
- 3. Gabija Vinikaitė, Birutė Požėrienė (KTK, Lithuania).**
ANALYSIS AND EVALUATION OF ENGINEERING SOLUTION FOR EXTERIOR WALL MASONRY BLOCKS.
- 4. Lolita Dalbokaitė, Rosita Norvaišienė (KTK, Lithuania).**
ANALYSIS OF SUSTAINABILITY TRENDS IN CONTEMPORARY SWEDISH ARCHITECTURE.
- 5. Dainius Ramukevičius, Raimondas Šadzevičius, Yuriy Biks (KTK, KMAIK, Lithuania, Vinnytsia National Technical University, Ukraine).** POSSIBILITIES OF USING ENVIRONMENTALLY FRIENDLY MATERIALS IN SUSTAINABLE CONSTRUCTION.
- 6. Violeta Medelienė (KTK, Lithuania).**
MULTI - CRITERIA ANALYSIS OF SUPPORTING STRUCTURES FOR SPORTS BUILDING.
- 7. Lukas Lingys, Kęstutis Vitkauskas (KTK, Lithuania).**
PROBLEMATIC ASPECTS OF CONSTRUCTION COMPLETION PROCESS PUBLIC GOVERNANCE.
- 8. Jurijus Tretjakovas, Svetlana Toropovienė (VDTK, Lithuania).**
OVERVIEW OF METHODS FOR CALCULATING STATICALLY INDETERMINATE BEAM.
- 9. Jūratė Mockienė, Loreta Inokaitytė (KTK, Lithuania).**
ANALYSIS OF EMERGENCY CONDITIONS OF CONSTRUCTIONS AND THE WAYS OF THEIR AVOIDANCE.



Science and Industry Innovations and Perspectives in the Field of Electronic and Electrical Engineering

Moderator Ainis Kiveris



Connection: Join Zoom Meeting <https://liedm.zoom.us/j/86063233798>
Meeting ID: 860 6323 3798

1. Valdas Paulauskas (KTK, Lithuania).

INNOVATIONS IN ELECTRONIC AND ELECTRICAL ENGINEERING AND THEIR PERSPECTIVES IN SCIENCE AND INDUSTRY.

2. Petras Nefas, Rūta Jankūnienė (KTK, Lithuania).

RESEARCH OF DATA TRANSMISSION SECURITY OVER PUBLIC TRANSMISSION NETWORKS.

3. Tautvydas Pilelis, Kasparas Elzbutas, Agnė Rauluševičiūtė, Eglė Janušaitytė, Kornelija Magylaitė, Marius Saunoris (Kaunas University of Technology, KTK, Lithuania).

ANALYSIS OF ELECTRIC VEHICLE INFRASTRUCTURE DEVELOPMENT.

4. Artūras Aleksynas, Julius Šaltanis (KTK, Lithuania).

EVALUATION OF PRINTED CIRCUIT BOARDS REPAIR.

5. Rasa Muleravičienė, Martynas Agejevas (KTK, Lithuania).

IMPORTANCE OF ELECTRICAL GROUNDING.

6. Balaguru Subburathinam, Darius Kybartas (Kaunas University of Technology, KTK, Lithuania).

APPLICATION OF COMPLEMENTARY SPLIT RING RESONATORS FOR REDUCTION OF PATCH ANTENNA SIZE.

7. Artūras Kupčinskas (KTK, Lithuania).

RESEARCH OF LUBRICATING ABILITIES OF IONIC LIQUIDS.

8. Laimonas Kairiūkštis (KTK, Lithuania).

ASSURANCE SCHEME OF MEASUREMENT QUALITY IN LITHUANIA.

9. Rima Mikulėnienė, Rasa Muleravičienė (KTK, Lithuania).

SIGNIFICANCE OF ELECTRICAL PROTECTION METHODS

10. Kristupas Naujokas, Rasa Muleravičienė (KTK, Lithuania).

TYPES OF ELECTRICAL MAINS PROTECTION BY DISCONNECTION DEVICES.

Innovations and Perspectives of Motor Transport Electronics

Moderator PhD. Rasa Žygienė

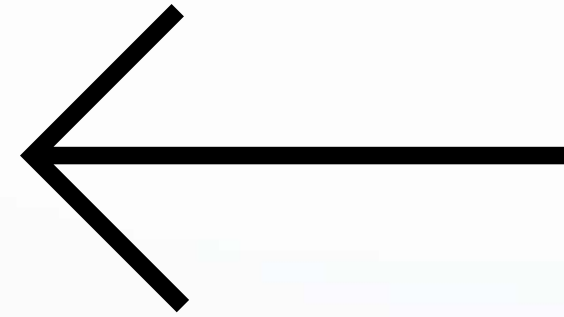


Connection: Join Zoom Meeting <https://liedm.zoom.us/j/83393039679>
Meeting ID: 833 9303 9679

- 1. Vygandas Meseckas, Artūras Aleksynas (KTK, Lithuania).**
RESEARCH OF SEAT BELT REMINDER SYSTEM.
- 2. Paulius Jurgilas, Rasa Žygienė (KTK, Lithuania).**
RESEARCH OF AUTOMATIC CAR PHONE HOLDER.
- 3. Osvaldas Kodys, Paulius Vitonis (KTK, Lithuania).**
ANALYSIS OF AUTOMATIC PASSENGER SAFETY SYSTEM
- 4. Justinas Marcinkevičius, Rasa Žygienė (KTK, Lithuania).**
RESEARCH OF AUDIBLE VEHICLE ALERT SYSTEM.
- 5. Ainis Kiveris (KTK, Lithuania).** TESTING OF CAR DOOR LOCK ACTUATOR.
- 6. Lukas Jodonis, Rasa Žygienė (KTK, Lithuania).** RESEARCH OF MULTIFUNCTIONAL RACING STEERING WHEEL WITH RPM FUNCTION INDICATOR.
- 7. Lukas Gaižauskas, Rasa Žygienė (KTK, Lithuania).**
RESEARCH AND ANALYSIS OF MOBILE MOTORCYCLE GEAR INDICATION SYSTEM.
- 8. Tadas Vasylius, Rasa Žygienė (KTK, Lithuania).**
ANALYSIS OF OVERHEAT PROTECTION SYSTEM IN AGRICULTURAL MACHINERY.
- 9. Martynas Šukys, Rūta Jančaitė (KTK, Lithuania).**
RESEARCH OF MOTORCYCLE SEAT AUTOMATIC HEATING SYSTEM.
- 10. Gytis Bagdonas, Paulius Vitonis (KTK, Lithuania).**
OVERVIEW AND ANALYSIS OF CAR CLIMATE CONTROL MANAGEMENT SYSTEMS.
- 11. Jonas Strimaitis, Rasa Žygienė, Marius Saunoris (KTK, Lithuania).** RESEARCH OF INTELLIGENT CAR BATTERY DISCHARGE WARNING SYSTEM.
- 12. Dovydas Zaksas, Rūta Jančaitė (KTK, Lithuania).**
RESEARCH OF CAR AUTOMATIC LIGHTING SYSTEM "MEET ME".

Innovations in the Field of Land and Air Transport and Mechanical Engineering

Moderator PhD. Andrius Dargužis



Connection: Join Zoom Meeting <https://litedm.zoom.us/j/84186357129>
Meeting ID: 841 8635 7129

- 1. Romualdas Gedvilas (KTK, Lithuania).**
ENGINEERING PROGRESS POLICY AND STRATEGY.
- 2. Vytenis Naginevičius, Skirmantas Adomavičius (KTK, Lithuania).**
VIBRATION DAMPING SCHEME.
- 3. Kęstutis Grigaliūnas (KTK, Lithuania).**
DEVELOPMENTS IN AIRCRAFT HYDRAULIC SYSTEMS AND POSSIBILITIES FOR HYDRAULIC ENERGY EXCHANGE.
- 4. Ayush Lamichhane Bashyal, Esmeralda Štyps (Universidad Rey Juan Carlos, Spain, (KTK, Lithuania).**
WELDED JOINTS IN AIRCRAFTS.
- 5. Viktors Gutakovskis, Vladimirs Gudakovskis (Riga Technical University, Latvia, KTK, Lithuania).**
ADAPTIVE CONTROL FOR THE METAL CUTTING PROCESS USING SURFACE ROUGHNESS MONITORING METHOD.
- 6. Rolandas Šertvytis, Andrius Kozlovas, Donata Putnaitė (KTK, Lithuania).** EFFECT OF MOBILE GRINDING MACHINE ON THE FINAL METAL TURNING LATHE WAYS SURFACE FINISH.
- 7. Marius Mažeika, Darius Juodvalkis (KTK, Lithuania).**
ANALYSIS OF ROAD TRANSPORT POLLUTION MONITORING SYSTEM.
- 8. Tomas Mickevicius, Sławomir Wierzbicki (KTK, Lithuania, University of Warmia and Mazury in Olsztyn, Poland).**
EFFECTS OF AVIATION FUEL AND BIOFUEL BLENDS ON ENGINE PERFORMANCE AND EMISSIONS OF DIESEL ENGINE.
- 9. Andrius Dargužis, Darius Juodvalkis (KTK, Lithuania).**
INFLUENCE OF GAS FUEL ON DIESEL CAR SPEED DYNAMICS

Educational Innovations in the Development of Engineering Specialists and Other Problems of Higher Education

Moderator PhD. Kęstutis Vitkauskas



Connection: Join Zoom Meeting <https://liedm.zoom.us/j/83086934308>
Meeting ID: 830 8693 4308

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- 1. Kęstutis Vitkauskas (KTK, Lithuania).**
EFFECTIVENESS OF ASSURANCE OF CONSUMER ECONOMIC INTERESTS' PROTECTION IN LITHUANIA.
 - 2. Vida Rainienė (KTK, Lithuania).**
THE IMPORTANCE OF QUALIFICATIONS AND PROFESSIONAL SKILLS IN LEGAL EMPLOYMENT RELATIONSHIPS
 - 3. Judita Štreimikienė, Sanita Eihmane, (KTK, Lithuania, Riga Technical College, Latvia).**
RELEVANCE OF TRANSPORT ENGINEERING GRADUATION THESIS: ANALYSIS OF TOPICS AND PROBLEMS.
 - 4. Judita Štreimikienė, Birutė Gakienė (KTK, Lithuania).**
75 YEARS FOR AUTOMOTIVE ENGINEERING STUDY PROGRAMME.
 - 5. Romutė Augaitienė (KTK, Lithuania).**
DEVELOPMENT OF ABSTRACT, LOGICAL THINKING IN MATHEMATICS LECTURES.
 - 6. Esmeralda Štyps (KTK, Lithuania).**
PECULIARITIES OF SEMESTER WORK IN AERONAUTICAL ENGINEERING.
 - 7. Tatjana Sokolova (KTK, Lithuania).**
APPLICATION OF INFORMATION TECHNOLOGY FOR STRENGTH OF MATERIAL TASKS SOLUTION.
 - 8. Paulius Musteikis (UAB Kitron).**
INVISIBLE LINES BETWEEN ELECTRONICS STUDENT AND ENGINEER.