

INTERNATIONAL SCIENTIFIC CONFERENCE

ENGINEERING AND EDUCATIONAL TECHNOLOGIES: COMBINATION OF GENERAL AND ENGINEERING COMPETENCES IMPLEMENTING THE EU GREEN DEAL

26 APRIL 2023

PLACE: ROOM J.GRAVROKAS (112)

9:00-9:55

Registration

10:00-11:15

Panel Discussion

Moderator– Ž. Kropaitė

Participants of the Discussion:

Inga Balnanosienė, Director, Employment Service Under the Ministry of Social Security and Labour of the Republic of Lithuania

Tomas Prūšas, President of LINPRA and Director of PLC Harju Elekter

Dr. Lina Girdauskienė, Director of KTK (Kaunas University of Applied Engineering Sciences)

Andrius Veršinskas, Chief Project Manager of Business Department in Kaunas IN

11:15-11:30

Signing of the Cooperation Agreement with Chernihiv Polytechnic National University (Ukraine)

Zoom: <https://liedm.zoom.us/j/94815333149>

11:30-13:00

Lunch Break

13:00-15:00

Scientific Discussion

Group 1. Technological research on land and air vehicles. Room 319 b.

Group 2. Research on sustainable construction and road engineering solutions. Room 319 c.

Group 3. Research on the development of engineering and general competences. Room 319 a.

13:00-15:00

Informal Discussion Ideas for Innovations

Representatives from the fields of construction, transport, mechanics, electricity, electronics and aeronautics engineering will share the good practice during the discussion.

Poster presentations will also be exhibited during the discussion.

TECHNOLOGICAL RESEARCH ON LAND AND AIR VEHICLES

Moderator – dr. Tomas Mickevičius

Room – 319 b

Zoom: <https://liedm.zoom.us/j/96217091575>

1. MICRO SENSORS - OPERATING PRINCIPLES, TECHNOLOGY AND APPLICATIONS

Roy Knechtel (Hochschule Schmalkalden University of Applied Sciences, DE)

2. DESIGN OF AIRCRAFT ENGINE TRAINING STAND STRUCTURE

Esmeralda Štyps, Jonas Gatautas (Kaunas University of Applied Engineering Sciences, LT).

3. DESIGN OF CESSNA 172 CONTROL SYSTEM MAINTENANCE PROCESS

Audrius Jonušas, Andrius Dumskis (Kaunas University of Applied Engineering Sciences, LT)

4. MAINTENANCE ANALYSIS OF 2010 AUDI A7S LINE ENGINE

Daniel Udegbunam (Politechnic Institute of Braganca, PT)

5. DESIGN AND IMPLEMENTATION OF CAN BUS EXPERIMENT FOR REMOTE LEARNING IN AUTOMOTIVE ENGINEERING

Oleksandr Velihorskyi, Rasa Žygienė (Chernihiv Polytechnic National University, Kaunas University of Applied Engineering Sciences, UA, LT)

6. RETROFIT OF AUTOMATIC CLAMPING MECHANISMS AS A SUBSYSTEM OF MACHINE SPINDLE ASSEMBLIES TO INCREASE MACHINING EFFICIENCY

Murovanij Igor, Borys Prydalnyi (Lutsk National Technical University, UA)

7. PROSPECTS FOR THE USE OF GENERATOR GAS IN INTERNAL COMBUSTION ENGINES

Anatoliy Korpach, Bogdan Chorny (National Transport University, UA)

8. EFFECT OF ENGINE OIL ADDITIVE ON ENGINE PERFORMANCE

Tomas Mickevičius, Kęstutis Šileika (Kaunas University of Applied Engineering Sciences, Vytautas Magnus University, LT)

9. RESEARCH OF LUBRICATING PROPERTIES OF BIOFUELS AND THEIR MIXTURES WITH TIRE PYROLYSIS OIL

Tomas Mickevičius, Tautvydas Pranckevičius (Kaunas University of Applied Engineering Sciences, LT)

10. RESEARCH OF PERFORMANCE INDICATORS OF ENGINE OPERATING ON DIESEL - TIRE PYROLYSIS OIL MIXTURES

Marius Mažeika, Edvinas Vabuolis, Tomas Mickevičius (Kaunas University of Applied Engineering Sciences, Vytautas Magnus University, LT)

11. ANALYSIS OF WAYS TO IMPLEMENT ELECTRIC VEHICLE CHARGING INFRASTRUCTURE

Nedas Nagreckis, Lukas Pukelis, Marius Saunoris (Kaunas University of Applied Engineering Sciences, Kaunas University of Technology, LT)

12. IMPLEMENTATION AND INVESTIGATION OF SYNCHRONIZED SYSTEM OF TWO ELECTRICITY METERS

Žygmantas Vilkelis, Marius Saunoris (Kaunas University of Technology, Kaunas University of Applied Engineering Sciences, LT)

13. INVESTIGATION OF INDUCTION HEATING

Adomas Lukas, Marius Saunoris (Kaunas University of Technology, Kaunas University of Applied Engineering Sciences, LT)

RESEARCH ON SUSTAINABLE CONSTRUCTION AND ROAD ENGINEERING SOLUTIONS

Moderator – dr. Virgaudas Puodžiukas

Room – 319 c

Zoom: <https://liedm.zoom.us/j/91939978273>

1. TECHNICAL SPECIFICATION SOLUTION IN SWEDEN

Artūras Ačylovas (Sigma Civil AB, SE)

2. SUSTAINABLE, HIGH-PERFORMANCE BUILDING SOLUTIONS IN WOOD (ERASMUS+ KA2 STRATEGIC PARTNERSHIP PROJECT)

Linda Krage, Violeta Šulcienė, Dainora Jankauskienė (Riga Building College, Klaipeda State University of Applied Sciences, LV, LT)

3. STRUCTURE WEAR ANALYSIS IN AGGRESSIVE ENVIRONMENT

Jūratė Mockienė, Loreta Inokaitytė (Kaunas University of Applied Engineering Sciences, LT)

4. USE OF GLUED LAMINATED TIMBER IN CONSTRUCTION OF ROAD STRUCTURES. LITHUANIAN AND FOREIGN EXPERIENCE

Regina Motienė, Virgaudas Puodžiukas, Benas Berkmonas (Kaunas University of Applied Engineering Sciences, UAB "Kelprojektas", LT)

5. SOLUTION ANALYSIS FOR ALTERNATIVE DEVICES IN DETERMINING SOIL BEARING CAPACITY

Mykolas Našlėnas, Regina Motienė (Kaunas University of Applied Engineering Sciences, LT)

6. ANALYSIS OF OPTIONS FOR RESIDENTIAL BUILDING FOUNDATION

Lolita Dalbokaitė, Paulius Jokubaitis (Kaunas University of Applied Engineering Sciences, LT)

7. MULTI-CRITERIA ASSESSMENT OF SUSTAINABLE EXTERNAL WALL CONSTRUCTIONS

Karolis Žižys, Violeta Medelienė (Kaunas University of Applied Engineering Sciences, LT)

8. RESEARCH OF PUBLIC BUILDING FRAME EFFECTIVENESS APPLYING MULTI-CRITERIA EVALUATION

Rimvydas Žukauskas, Violeta Medelienė (Kaunas University of Applied Engineering Sciences, LT)

9. EMBEDDING A CULTURE OF EFFICIENCY AND AUTOMATION ON THE EAST OF ENGLAND FRAMEWORK

Aistis Tamošiūnas (ATKINS, UK)

10. RAIL BALTICA: PROJECT STATUS AND MOST CHALLENGING INFRASTRUCTURE OBJECTS

Ēriks Diļevs (RB Rail AS Latvian branch, LV)

11. ROAD DESIGN PRINCIPLES AND TRENDS IN SWEDEN

Tomas Miklušis (Reaalprojekt AB, SE)

12. BIM AND DIGITAL CONSTRUCTION IN ROAD BUILDING

Eimantas Jansonas (AB Eurovia, LT)

RESEARCH ON THE DEVELOPMENT OF ENGINEERING AND GENERAL COMPETENCES

Moderator – dr. Kęstutis Vitkauskas
Room – 319 a

1. ENSURING THE PRINCIPLE OF EQUAL OPPORTUNITIES IN LABOUR RELATIONS

Kęstutis Vitkauskas (Kaunas University of Applied Engineering Sciences, LT)

2. ENSURING ACCESSIBILITY OF PHYSICAL ENVIRONMENT (BUILDINGS AND THEIR ACCESSSES) FOR PERSONS WITH DISABILITIES

Titas Minelga, Kęstutis Vitkauskas (Kaunas University of Applied Engineering Sciences, LT)

3. AVAILABILITY OF TRANSPORT SERVICES FOR PERSONS WITH DISABILITIES

Paulius Kančiauskas, Kęstutis Vitkauskas (Kaunas University of Applied Engineering Sciences, LT)

4. EVALUATION OF MATERIAL RESISTANCE PROBLEM SOLUTION APPLYING SPECIALIZED SOFTWARE PACKAGE

Jokūbas Deltuva, Esmeralda Štyps (Kaunas University of Applied Engineering Sciences, LT)

5. BLENDED LEARNING: A CASE OF MECHANICS COURSE

Tatjana Sokolova (Kaunas University of Applied Engineering Sciences, LT)

6. BLENDED INTENSIVE PROGRAM – SPACE FOR ACQUIRING KNOWLEDGE AND SKILLS

Judita Štreimikienė (Kaunas University of Applied Engineering Sciences, LT)

7. PECULIARITIES OF STUDENT ADAPTATION AT KAUNAS UNIVERSITY OF APPLIED ENGINEERING SCIENCES

Vida Palaimienė (Kaunas University of Applied Engineering Sciences, LT)

INFORMAL DISCUSSION IDEAS FOR INNOVATIONS

Moderator – dr. Rosita Norvaišienė

Room – KTK Library

1. INNOVATIVE STRUCTURAL DESIGN

KTK ED Division (Kaunas University of Applied Engineering Sciences, LT)

2. MULTI-CRITERIA ANALYSIS OF ADMINISTRATIVE BUILDING PARTITION CONSTRUCTIONS

Erika Bujanuskaitė, Viktorija Drilingė, Violeta Medelienė, Jūratė Mockienė (Kaunas University of Applied Engineering Sciences, LT)

3. TIMBER CONSTRUCTION: REVIEW OF TALL TIMBER BUILDINGS

Rosita Norvaišienė, Rolandas Šibirkštis, Kristupas Mačiūnas, Paulius Jokubaitis (Kaunas University of Applied Engineering Sciences, LT)

4. REDUCING WASTE POLLUTION WITH CAN CRUSHERS: RESEARCH ON EFFECTIVENESS OF ALUMINUM CAN RECYCLING

Elisa Rubio Gómez, Andrea Poves Jimenez, Inés Esperanza Gómez de los Infantes Peña, Paula Gutiérrez Pérez, Carmen Requena García (Rey Juan Carlos University, ES)

5. INNOVATIVE IDEAS IN BUSINESS

Students from Transport and Telecommunication Institute (LV)

6. NON DESTRUCTIVE TECHNOLOGIES

Hamza Hameed Chohan, Mohamad Ali Khalil (Kaunas University of Applied Engineering Sciences, LT)

7. MECHANICS OF MATERIALS

Inés Esperanza Gómez de los Infantes Peña (Rey Juan Carlos University, ES)

8. ITER AND METHODS TO OBTAIN NET POSITIVE ENERGY FROM NUCLEAR FUSION

Maria Arenaza Alaman (Rey Juan Carlos University, ES)