

INTERNATIONAL SCIENTIFIC CONFERENCE

ENGINEERING AND EDUCATIONAL TECHNOLOGIES 2024: CREATING AN INCLUSIVE LEARNING ENVIRONMENT FOR ENGINEERING PROFESSIONALS

9:00 - 10:00

Registration

10:00

Opening of the Conference

10:10 - 10:55

Scientific Presentations

11:00 - 11:50

Panel Discussion

11:50 - 12:20

Closing of the Plenary Session Together with the Guests from the Orchestra

12:30 - 13:30

Lunch Break

13:30 - 15:30

Work in Scientific Groups and Innovation Alley



10:10 - 10:30

Development of Engineering Specialists Psychomotor and Creative Skills by Adjusting the Training – Learning Reflex

Prof. dr. Sigitas Vaitkevicius Research Director Vytautas Magnus University



10:35 - 10:55

A Flexible Model for Cooperative Studies Together with Industry

Prof. Dr.-Ing. Roy Knechtel University of Applied Sciences Schmalkalden, German

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11:00-11:45

PANEL DISCUSSION

Moderator - Aurimas Perednis

Discussion Topics:

- Creating an Inclusive Learning Environment:
 Where Does the Training of a Competent Professional Begin and Where Does It End?
- Collaboration Among Education Stakeholders in Order to Create Inclusive Learning Environment



dr. Genutė Gedvilienė Professor at the Academy of Education Vytautas Magnus University



dr. Dainius Žvirdauskas The President of LMVA, director of Kaunas University of Technology Engineering Lyceum



dr. Lina Girdauskienė Director of Kaunas University of Applied Engineering Sciences



Mykolas Našlėnas Alumnus of Kaunas University of Applied Engineering Sciences



Povilas Bonkevičius Head of KTK Racing Division

CONSTRUCTION ENGINEERING RESEARCH

MODERATOR DR. ROSITA NORVAIŠIENĖ ROOM – 129

PRESS TO JOIN THE MEETING

- 1. Non-Destructive Testing of Ceramic Tiles (On-Line Presentation). On-Line Presentation Elif Eren Gültekin. (Selçuk University, Turkey)
- 2. Energy Transition in Buildings: Shift to Electric Utilities and Renewables Fiaschi D. (University of Florence, Italy)
- 3. Operational Planning of Water Resources Management in Drainage Irrigation Schemes
 Brandyk A. (Warsaw University of Life Sciences, Poland)
- 4. How Sustainability Agenda Changes Construction Sector Bielskyte R. (UAB Doresta, Lithuania)
- 5. Sustainability Analysis of Cross Laminated Timber, Concrete and Steel Buildings
 Sragauskas M., Norvaišienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 6. Determination of Optimal Parameters of Large Span Steel Trusses

 Mockienė J., Kantautas A. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 7. Study of Residential Building Partition Efficiency
 Kaminskas D., Medelienė V. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 8. Assessment of Non-Ventilated Facade Insulation Systems for Residential Buildings
 Jankauskas P., Medelienė V. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 9. Multi-Criteria Analysis of Commercial Building Flat Roof Covering Options
 Klenauskas K., Medelienė V. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 10. Enhancing Sustainability Via Implementing Biological Additives for Soil Water Resources Management
 Grybauskienė V., Vyčienė G. (Kaunas Forestry and Environmental University of Applied Sciences, Lithuania)
- 11. Analysis of the Selection of Floor Coverings for the Sport Hall
 Botyrius I., Baltušnikienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)
- **12.** Solutions for the Management of the Slopes of Lithuanian Zoological Garden Šadzevičius R., Ramukevičius D., (Kaunas University of Applied Engineering Sciences, Lithuania)
- 13. Analysis of Flat Roof Options

 Dalbokaitė L., Kanauka E. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 14. Analysis of Options for Thermal Insulation Materials for Rendered Facades
 Dalbokaitė L., Činikas D. (Kaunas University of Applied Engineering Sciences, Lithuania)

ROAD ENGINEERING RESEARCH

MODERATOR DR. RAIMONDAS ŠADZEVIČIUS ROOM – 319/1

PRESS TO JOIN THE MEETING

1. Construcion Project in Sweden. On-Line presentation

Ačylovas A. (UAB Tyrens Lietuva, Sweden)

2. Diversion Routes for Unplanned Events & Innovative Practices to Reduce Costs and Deliver a Better Customer Experience

Tamošiūnas A. (AtkinsRéalis, United Kingdom)

3. Opportunities for Improving the Infrastructure of the Kretinga - Vydmantai Cycle Path

Taroza Ž. (UAB YIT Lietuva, Lithuania)

4. Via Baltica: From Project to the Result

Mikelionis A. (AB Kauno tiltai, Lithuania)

5. Rationality Assessment of Bridge Superstructures Based on TOPSIS Method

Baranauskas M. (AB Via Lietuva, Lithuania)

6 Analysis of Roundabouts and Recommendations for Application on Lithuanian Trunk and National Roads of National

. Importance

Volosenko S. (UAB Realprojektas, Lithuania)

7. Road Engineering Today

Vorobjovas V. (VilniusTech, Lithuania)

8. Analysis and Evaluation of Alternative Engineering Solutions for the Selection of Road Culverts

Rainys R., Motienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)

9. Trends in Digital Infrastructure and Smart Mobility in Europe

Miklušis T., Švenčionis M. (UAB Realprojektas, Lithuania)

10. Factors Influencing the Quality of Road Engineering Training

Motienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)

11. Comparative Analysis of Road Alignment Options

Rumša M., Motienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)

12. Roundtable Discussion Together with Social Partners

"Training of Specialists in Road Engineering: Experience and Perspectives"

Moderator: Benas Berkmonas (UAB Tyrens Lietuva)

Participants: Aistis Tamošiūnas (UAB AtkinsRéalis); Žydrūnas Taroza (UAB YIT Lietuva);

Tomas Miklušis (UAB Realprojektas); Artūras Ačylovas (UAB Tyrens Lietuva); Marius Baranauskas (AB Via Lietuva);

Mykolas Našlėnas (Asphalab Baustoffprüfungen GmbH); Jūratė Mališkienė (AB Kauno tiltai)

TRANSPORT AND MECHANICAL ENGINEERING RESEARCH

MODERATOR DR. ANDRIUS DARGUŽIS ROOM – 319/2

- IOT Based Hydrogen Leak Detection System for Airplane Refiling Station
 Lancha Gonzalez G., Kairiūkštis L. (Universidad Rey Juan Carlos, Kaunas University of Applied Engineering Sciences, Lithuania)
- 2. Air and Engineering: Improvements and Developments Made by Understanding the Concept of Air in Engineering Yeniçeri O. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 3. Mechanical Vibrations in Industrial Engine
 Gracas Massudi T.D., Štyps E. (Instituto Politécnico de Bragança, Portugal, Kaunas University of Applied Engineering Sciences, Lithuania)
- 4. Research of Electric Car Battery Reliability in Cold Climate Zone
 Mažeika M. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 5. Modification of Oils With Additives
 Kupčinskas A. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 6. Design of an Additional Safety System to Prevent Unauthorised Starting of Vehicles Mitkevičius M., Kiveris A. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 7. The Influence of the Shape of the Cutting Insert on the Build-up Edge Growth
 Žunda A., Andriušis A., Kupčinskas A. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 8. Research of Welding Arc Stability: Impact on Stud Welding Quality
 Putnaité D., Kozlovas A. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 10. Research of Electric Car Fire Prevention Safety
 Juodvalkis D. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 11. Theoretical Study of the Efficiency of Cars with Different Levels of Hybridization
 Dargužis A., Juodvalkis D. (Kaunas University of Applied Engineering Sciences, Lithuania)
- **12. Overview of Simulation Tools to Improve Analog Circuit Analysis and Troubleshooting Skills** Paškauskas M., Saunoris M. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 13. Infuence of Driver Assistance Systems on Road Safety
 Leonavičius M., Mickevičius T. (Kaunas University of Applied Engineering Sciences, Lithuania)
- Modeling Traffic Flow on Intersection
 Gedeikis L., Mickevičius T. (Kaunas University of Applied Engineering Sciences, Lithuania).

ELECTRICAL AND ELECTRONICS RESEARCH

MODERATOR DR. GEDIMINAS DAUKŠYS ROOM – 112

1. Sustainability on Electric Vehicles

Yilmaz E. (Gazi University, Turkey)

2. Electric Power and Distribution Systems

Sagredo Gonzalez J., Abad V, Fernandez V. (University of Burgos, Spain)

3. MEMS Microphones, the Ears of Alexa, Siri and Co. - Functionality, Technology and Applications

Knechtel R.., Seyring.M. (University of Applied Sciences Schmalkalden, Germany)

4. Aesthetics of Failure and Indeterminism

Kolodzeiskis L. (Kaunas University of Applied Engineering Sciences, Lithuania)

5. Investigation of Industrial Building with Hybrid Solar Power Station

Juknevičius R., Daukšys G. (Kaunas University of Applied Engineering Sciences, Lithuania)

6. Implementation and Investigation of Wireless Charging

Motūzas J., Saunoris M. (Kaunas University of Technology, Kaunas University of Applied Engineering Sciences, Lithuania)

7. Investigation of a Pseudo Random RSA Key Generator

Nefas P., Jankūnienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)

8. Grounding and Zeroing: What You Need to Know

Tamulynas R., Gužauskas M., Muleravičienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)

9. Investigation of Radio Wave Propagation in 5G Network With 3GPP Tr 38.900 and SPM Models

Kašėta S. (Kaunas University of Applied Engineering Sciences, Lithuania)

10. Analysis of Programmable Electronic Load Architectures and Control Techniques

Sankauskas M., Saunoris M. (Kaunas University of Technology, Kaunas University of Applied Engineering Sciences, Lithuania)

11. Investigation of Application of Method for Electrical Shoes Heating

Tamulynas R., Kybartas D. (Kaunas University of Applied Engineering Sciences, Lithuania)

12. Assessing the Effects of Edge and Fog Computing on Data Processing Latency

Tervydis P. (Kaunas University of Applied Engineering Sciences, Lithuania)

13. Types of Electrical Grid Failsafe Devices

Pranckevičius D., Muleravičienė R. (Kaunas University of Applied Engineering Sciences, Lithuania)

14. Electronic Warfare and Its Elements

Grimaila, V. (UAB NT Service, Kaunas University of Applied Engineering Sciences, Lithuania, Kaunas University of Technology, Lithuania)

15. Progress and Challenges in Recycling Lithium Batteries in Lithuania and EU

Kairiūkštis L., Staliulionis Ž. (Kaunas University of Applied Engineering Sciences, Lithuania)

SOCIAL SCIENCE RESEARCH

MODERATOR DR. KĘSTUTIS VITKAUSKAS ROOM – 319/3

- 1. Definition of Key Competences and their Content for Lifelong Learning a European Framework Mencenevičienė S. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 2. Respecting the Employee's Family Commitments in Work Relations
 Vitkauskas K. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 3. Does the Building Permit Issuance Process Ensure That the Permit Will Be Legal?
 Grybauskas T., Vitkauskas K. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 4. Peculiarities of Students' Adaption in the Engineering Studies
 Palaimienė V., Martišienė D. (Kaunas University of Applied Engineering Sciences, Lithuania)
- 5. Expression of Students' Financial Literacy Competencies
 Burneikienė K. (Kaunas University of Applied Engineering Sciences, Lithuania)
- **6.** Research of Final Thesis Process Efficiency Štreimikienė J., Adomavičienė G. (Kaunas University of Applied Engineering Sciences, Lithuania)

INNOVATION ALLEY

MODERATOR DR. ŽYGIMANTAS STALIULIONIS ROOM – KTK LIBRARY, 1ST FLOOR

- 1. EBEA® Balcony Connector: Load-bearing Thermal Break. Modern Solutions Gasiūnė S. (UAB Peikko Lietuva)
- 2. Aspects of Building Self-Service System: from Individual Outlets to the Whole Ecosystem Bačiliūnas A., Jankūnienė R. (UAB Acoris)
- 3. Hydraulic Pressing Equipment in Energy Industry Žilionis G. (UAB Flamanda)
- 4. Passengers Train Remote Diagnostics, Predicting Maintenance, Information and Video Systems Bereiša M., Gudaitis V. (AB Lietuvos geležinkeliai, Lithuania)
- 5. Challenges in the Implementation of Energy Facilities in Sweden Kairys D. (Zilinskis & Co UAB)
- 6. Data Sources in Agricultural Sector Navickas E. (UAB DOJUS agro, Lithuania)
- 7. Radiography Laboratory on Wheels Kačinskas T. (UAB Iremas, Lithuania)
- 8. International Blended Intensive Program (BIP) Project Aviation English: Findings and Presentations of the Final Project Results.