



**KAUNAS UNIVERSITY OF TECHNOLOGY**

**FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE**

KTU Library amphitheater, Studentų str. 48, Kaunas

## Agenda

Friday, November 24

**09:30**      **Opening of the conference**

*Greetings from Prof. dr. Andrius Jurelionis, Dean of the Faculty of Civil Engineering and Architecture*

### The Plenary Session of the Conference

**The chairman Assoc. prof. dr. Aušra Mlinkauskienė**

**09:35**      **Modelling of Intelligibility of Buildings and Spaces of Kaunas Downtown area: GIS and Space Syntax Based Approach**

Speaker: Prof. dr. Kęstutis Zaleckis, Kaunas University of Technology, Kaunas, Lithuania

**10:05**      **The need of Buildings Operational Rating for a Smart Built Environment**

Speaker: dr. Paris Fokaides, Frederick University, Cyprus. Chief Researcher of Faculty of Civil Engineering and Architecture, Kaunas University of Technology, Kaunas, Lithuania

**10:35**      **Remote Sensing for Urban Planning**

Speaker: Prof. dr. Sébastien Gadal, Aix-Marseille University, France



### Presentations of the Conference

The chairman PhD student Manhanga Fallon Clare

- 11:05 Study the Sense of Time as a Means of Shaping the Urban Environment: the case of Kaunas, Lithuania**  
Speaker: Abdelhak Ayouaz, Kaunas University of Technology. Co-author: Marius Ivaškevičius, Kaunas University of Technology
- 11:15 Analysis of the Prediction of Energy Performance of Buildings in the Renovation Process**  
Speaker: Martynas Pranauskas, Kaunas University of Technology
- 11:25 Research on Biocomposites Based on Mineral Binders**  
Speaker: Gabrielė Jurgutytė, Kaunas University of Technology
- 11:35 Comparative Analysis of Global Warming Emission of High-rise Residential Buildings of Different Materials**  
Speaker: Akvilė Ulevičė, Kaunas University of Technology. Co-author: Rėda Bistrickaitė
- 11:45 Biomass Bottom Ash in Eco-efficient Cementitious Systems**  
Speaker: Deividas Norkus, Kaunas University of Technology. Co-authors: Danutė Vaičiukynienė, Jūratė Mockienė
- 11:55 Recycling of Plasterboard Waste and the Effect of Chemical Additives on the Properties of Recycled Gypsum Binder**  
Speaker: Gina Gustaitė, Kaunas University of Technology. Co-authors: Danutė Vaičiukynienė, Jūratė Mockienė
- 12:05 Research of Heat Exchange in Soil Thermo-accumulators**  
Speaker: Aistė Mickūnaitė, Kaunas University of Technology
- 12:15 Production and Use of Lightweight Artificial Aggregates in 3D Building Technology**  
Speaker: Fausta Adomaitytė, Kaunas University of Technology
- 12:25 Research on Plastic Reinforced with Fiberglass**  
Speaker: Simonas Štreimikis, Kaunas University of Technology. Co-author: Ernestas Ivanauskas

**12:35-13:20**

**Lunch break**



### Presentations of the Conference

The chairman PhD student Thomas Andre Jeremy Gloaguen

- 13:20**      **Specific Features of the Application of the National Classification in Construction Projects**
- Speaker: Vitalija Armalytė, Kaunas University of Technology. Co-author: Arūnas Aleksandras Navickas
- 13:30**      **Research of CO<sub>2</sub> Curing Impact on Thin-layer Product Properties**
- Speaker: Monika Druskevičiūtė, Kaunas University of Technology
- 13:40**      **Research of Geothermal Heating Usage Possibilities in Lithuanian District Heating Networks**
- Speaker: Egidijus Kasperavičius, Kaunas University of Technology. Co-author: Rokas Valančius
- 13:50**      **Research and Conceptual Model for Biodiversity Conservation in Kaunas Neighborhoods During and After Renovation**
- Speaker: Anastasiia Kiuppier, Kaunas University of Technology. Co-author: Indrė Gražulevičiūtė-Vileniškė
- 14:00**      **Urban Design Influence on Environment-friendly Behavior in Kaunas Suburbs**
- Speaker: Birutė Gedrimienė, Kaunas University of Technology. Co-author: Ingrida Povilaitienė
- 14:10**      **The Investigation of Roller Compacted Concrete with Fly Ash Using Gyrotory Compactor**
- Speaker: Jishnu Vijayan, Kaunas University of Technology. Co-author: Audrius Grinys
- 14:20**      **Investigation of Artificial Lime – Biomass Bottom Ash Composite**
- Speaker: Ernestas Papšelis, Kaunas University of Technology. Co-authors: Danutė Vaičiukynienė, Viktoras Doroševas



- 14:30**      **Effectiveness of Passive Cooling Strategies in Reducing Overheating Risk in Residential Buildings Under Future Climate Scenarios in Lithuania**
- Speaker: Svajūnas Jucis, Kaunas University of Technology. Co-author: Laura Stasiulienė
- 14:40**      **A Study of the Interlinkages between List of Regulated Construction Products and the Types of Classified Materials**
- Speaker: Bronislovas Keseriauskis, Kaunas University of Technology. Co-author: Arūnas Aleksandras Navickas
- 14:50**      **Reduction of CO<sub>2</sub> Emission through Utilisation of Municipal Glass Waste in the form Artificial Aggregates and Study of the Properties of the Aggregate**
- Speaker: Aivaras Rimgaila, Kaunas University of Technology

**15:00-15:10**

**Coffee break**

### **Presentations of the Conference**

**The chairman PhD student Thomas Andre Jeremy Gloaguen**

- 15:10**      **Feasibility Study of the Use of Architectural Theory in the Development of the Territory of the Former Military Base in Karmėlava**
- Speaker: Arnas Džiaugys, Kaunas University of Technology
- 15:20**      **Collective Intelligence in the Planning of Urban Public Spaces**
- Speaker: Aurelija Šideikytė, Kaunas University of Technology. Co-author: Jūratė Kamičaitytė
- 15:30**      **Development of Public Spaces' System in Samylai County**
- Speaker: Younes Islem Zellagui, Kaunas University of Technology. Co-author: Vidmantas Minkevičius
- 15:40**      **Normal Section Strengthening Methods of Bendable Wooden Beams and their Analysis**
- Speaker: Edmondas Vaškys, Kaunas University of Technology. Co-author: Nerijus Adamukaitis



- 15:50 The Research of Fresh Concrete Pressure into the Formwork**  
Speaker: Laimonas Andrikis, Kaunas University of Technology
- 16:00 Analysis and Effective use of Hybrid Photovoltaic Modules in the Swimming pool**  
Speaker: Modestas Stasytis, Kaunas University of Technology
- 16:10 Evaluation of Modular Buildings Load-bearing Structures from a Technological Aspect**  
Speaker: Lukas Tocionis, Kaunas University of Technology
- 16:20 Eco-Smart Construction: Harnessing Wood Sawdust, Cement Biocomposites for Sustainable Built Environments**  
Speaker: Hossein Rahmani, Kaunas University of Technology. Co-author: Algirdas Augonis
- 16:30 Recycled Plastic Usage in Creating Building Materials**  
Speaker: Agnė Barkauskaitė, Kaunas University of Technology

**16:40-16:50 Discussion**

**16:50 Conference Closing**

**Scientific committee:** Assoc. prof. dr. Aušra Mlinkauskienė, KTU; Prof. dr. Danutė Vaičiukynienė, KTU; Prof. dr. Jūratė Kamičaitytė, KTU; Assoc. prof. dr. Eglė Klumbytė, KTU; Assoc. prof. dr. Rokas Valančius, KTU; Assoc. prof. dr. Laura Stasiulienė, KTU; Lect. dr. Ignacio Villalon Fornes, KTU

**Organizing committee:** Assoc. prof. dr. Indrė Gražulevičiūtė-Vileniškė, KTU; Lect. dr. Vilma Kriaučiūnaitė-Neklejonovienė, KTU; Gintarė Stankevičiūtė, KTU; Viktoras Jasaitis, KTU; Martynas Statkauskas, KTU; Gloaguen Thomas Andre Jeremy, KTU; Manhanga Fallon Clare, KTU; Gintautas Tamošaitis, KTU; Eglė Januškienė, KTU

**Conference website**

<https://sbe.ktu.edu/>