STUDEENT SCIENTIFIC CONFERENCE



KAUNAS UNIVERSITY OF TECHNOLOGY

FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE

KTU Library, Studenty Str. 48, Kaunas

Agenda

Friday, December 6

08:30 Registration

09:00 Opening of the conference

The Plenary Session of the Conference, Amphitheater
The chairman Assist. dr. Ignacio Villalon Fornes

09:05 Architecture as Part of Rebuilding Ukraine Effort: Lithuanian Case

Speaker: Rūta Leitanaitė, Architects Association of Lithuania, Vilnius, Lithuania

09:25 Panel Renovation – What can it Bring on the Table?

Speaker: Doc. Dr. Jurgita Černeckienė, Kaunas University of Technology, Kaunas, Lithuania

09:45 Displaced Lithuanian Architects in the United States: The Case of Jonas

Mulokas

Speaker: Lect. Dr. Paulius Tautvydas Laurinaitis, Kaunas University of Technology, Kaunas, Lithuania

10:05-10:20 Break

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	Presentations of the Conference
	Interdisciplinary Research, Amphitheater
	The chairman PhD student Manhanga Fallon Clare
10:20	Integrating Digitalisation in Assessing and Ensuring the Sustainability of Heritage Buildings
	Speaker: Erika Svytytė, Kaunas University of Technology. Co-author: Prof. dr. Lina Šeduikytė, Kaunas University of Technology
10:30	Development of an Automated 4D/5D BIM Model for Real-Time Project Evaluation and Management in High-Speed Railway Bridge Construction
	Speaker: Farhad Sharifli, Kaunas University of Technology
10:40	Optimizing Geospatial Accuracy and Data Integration in Multidisciplinary Construction Projects via Shared Coordinate Systems
	Speaker: Mohamed W. Meneaem, Kaunas University of Technology
10:50	Building Life Cycle Assessment Through Building Information Modelling
	Speaker: Amirkhuja Rakhmatkhujaev, Kaunas University of Technology. Co-author: Assoc. prof. dr. Eglė Klumbytė, Kaunas University of Technology
11:00	Logistics Optimization of the Road Construction Using Linear Programming
	Speaker: Shahram Shaygani, Kaunas University of Technology. Co-author: Assoc. prof. dr. Rasa Apanavičienė, Kaunas University of Technology
11:10	Simulation-Based Optimisation of Parametric Building Designs for Solar Insolation Efficiency: Case Study Analysis
	Speaker: Elham Mokhalled, Kaunas University of Technology. Co-author: Assist. dr. Marius Ivaškevičius, Kaunas University of Technology
11:20	A study on the Assessment of Sustainable Materials in Buildings
	Speaker: Aleksas Masevič, Kaunas University of Technology. Co-author: Assoc.
	prof. dr. Arūnas Aleksandras Navickas

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Speaker: Oleksii Lozytskyi, Kaunas University of Technology. Co-authors: Vainius Serafimas, Pranta Dev Nath, Prof. dr. Danutė Vaičiukynienė, Kaunas University of Technology

11:40 The Technology of Installation and EPD calculation of Sustainable Pavements for Heavy-Duty Applications

Speaker: Leonardas Miliūnas, Kaunas University of Technology. Co-author: Assoc. prof. dr. Audrius Grinys, Kaunas University of Technology

11:50-13:00 Lunch break

Presentations of the Conference

Parallel session

Civil Engineering, Library, M9

The chairman PhD student Gintautas Tamošaitis

13:00	Research on	Structural	Units and	Technologies	of Modular	Construction
	Buildings			_		

Speaker: Arminas Sadauskas, Kaunas University of Technology

13:10 Enrichment of Building Information Model with Machine Learning

Speaker: Donatas Počešiūnas, Kaunas University of Technology

13:30 Research of the Influence of Ground Thermal Properties on the Energy Efficiency of a Building with a Deepened Part

Speaker: Dominykas Vencius, Kaunas University of Technology

13:40 Research on Underwater Concreting Technologies

Speaker: Lukas Jakubavičius, Kaunas University of Technology

13:50 Research on the Use of Dolomite Rock Processing Waste in the Development of Construction Products

Speaker: Matas Burinskas, Kaunas University of Technology

14:00 Strengthening of Notched Wooden Beams at the Support using Plywood and Wood Screws

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Speaker: Mindaugas Uščiauskas, Kaunas University of Technology. Co-author: Assist. dr. Nerijus Adamukaitis, Kaunas University of Technology

14:10 Relative Humidity inside a Straw Bale House

Speaker: Oskaras Liniauskas, Kaunas University of Technology. Co-authors: Prof. dr. Lina Šeduikytė, Kaunas University of Technology, Laurynas Marcinkus, UAB "Ilanga", Lithuania

14:20 Economical Cost Analysis of Sustainable Pavements for Heavy-Duty Applications

Speaker: Vilius Zbarauskas, Kaunas University of Technology. Co-author: Assoc. prof. dr. Audrius Grinys, Kaunas University of Technology

14:30-14:40 Break

14:40 Lightweight Concrete Incorporating Silica Aerogel: Investigations and Applications

Speaker: Kornelija Valuckaitė, Kaunas University of Technology

14:50 Research on Biocomposites with Mineral Binders

Speaker: Nojus Naruševičius, Kaunas University of Technology

15:00 Gypsum Composites for Sound Insulation

Speaker: Ernestas Papšel, Kaunas University of Technology. Co-authors: Prof. dr. Danutė Vaičiukynienė, Assoc. prof. dr. Dalia Nizevičienė, Kaunas University of Technology

15:10 Research on the Use of Wood Processing Waste in Concrete

Speaker: Domantas Ramanauskas, Kaunas University of Technology

15:20 Research Into Installation Technologies of Steel-Concrete Composite Beams Combined with Timber-Concrete Composite Slabs

Speaker: Mantas Širvinskas, Kaunas University of Technology

15:30 Concrete Composites Reinforced with Sawdust Treated with Sodium Sulphate: An Analytical and Experimental Study of Mechanical Properties

Speakers: Domantas Ramanauskas, Kornelija Valuckaitė, Kaunas University of Technology. Co-author: Jonas Ragelis, Kaunas University of Technology

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15:40-16:00 Discussion

16:00 Conference Closing, Amphitheater

Presentations of the Conference

Parallel session

Architecture, Library, M3

The chairman PhD student Thomas Andre Jeremy Gloaguen

13:00 The Death and Life of Small Lithuanian Towns

Speaker: Agnė Dudonytė, Kaunas University of Technology. Co-author: Assoc. prof. Gintarė Kapočiūtė, Kaunas University of Technology

13:10 Reviving Identity-Lacking Territories through the Principles of Sensory Urbanism: A Review of Theoretical Research

Speaker: Aida Raižytė, Kaunas University of Technology. Co-author: Assoc. prof. Rūta M. Slavinskaitė

13:20 Rethinking Prison Architecture: Creating Spaces for Resocialization and Reintegration: Literature Review

Speaker: Auksė Taurasevičiūtė, Kaunas University of Technology

13:30 Experimental proposals for transformation of historic industrial quarter in the context of urban regeneration and green infrastructure development

Speaker: Diana Žmėjauskaitė, Kaunas University of Technology. Co-author: Assoc. prof. dr. Indrė Gražulevičiūtė-Vileniškė, Kaunas University of Technology

13:40 Biophilic Office Spaces with Integrated Plants: Analysis of Literature and Examples of Co-working Spaces

Speaker: Gopu Pandaran Jayan, Kaunas University of Technology. Co-author: Assoc. prof. dr. Indrė Gražulevičiūtė-Vileniškė, Kaunas University of Technology

13:50 Co-living Hotel for Students and Lecturers in the 15th Quarter of Kaunas Old Town

Speaker: Laura Jurkštienė, Kaunas University of Technology. Co-author: Assoc. prof. dr. Gintaras Prikockis, Kaunas University of Technology

SMART BUILT Environment

15:20

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14:00 Urban Regeneration of Brownfields Through the Concept of Sustainability Islands: A Review of Theoretical Research

Speaker: Lukrecija Ramanauskaitė, Kaunas University of Technology. Co-author: Prof. dr. Jūratė Kamičiaitytė, Kaunas University of Technology

14:10-14:20 Break 14:20 **Using Walkscape Concept for the Design of Urban** Speaker: Majd Aboud, Kaunas University of Technology. Co-author: Prof. dr. Jūratė Kamičaitytė, Kaunas University of Technology 14:30 Distinct Regional Tactics to Architectural Placemaking in Protected Landscapes: A Theoretical Research Review Speaker: Martynas Stakvilevičius, Kaunas University of Technology 14:40 The Impact of Social Factors on The Protection of Cultural Heritage (Kaunas Modernism) Speaker: Poorun Kumar Bhatoo, Kaunas University of Technology. Co-author: Assoc. prof. dr. Aušra Mlinkauskienė, Kaunas University of Technology 14:50 Regeneration of Urban Structures Applying the Principles of Integral **Urbanism and Ecotone Functioning** Speaker: María Alejandra Gutierrez Luna, Kaunas University of Technology 15:00 Cellular Automata and Where to Find Them: Using Biological Process Inspired Generative Architecture for the Reconstruction of Kaunas Taxi Park. A Review of Theoretical Research Speaker: Džiugas Urbonas, Kaunas University of Technology Introduction of Reused/Already Recycled Materials into Architectural 15:10 Design Speaker: Diyora Yarasheva, Kaunas University of Technology. Co-author: Assist. dr. Ingrida Povilaitienė, Kaunas University of Technology

Natural Building Materials and Aesthetic Innovation: Investigating the Use of Natural, Locally Sourced, and Renewable Materials in Creating Visually

Appealing and Environmentally Friendly Architecture

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Speaker: Mylana Titovska, Kaunas University of Technology. Co-author: Assoc. prof. dr. Indrė Gražulevičiūtė-Vileniškė, Kaunas University of Technology

15:30-16:00 Discussion

16:00 Conference Closing, Amphitheater

Scientific committee: Prof. dr. Andrius Jurelionis; Assoc. prof. dr. Aušra Mlinkauskienė, KTU; KTU; Prof. dr. Jūratė Kamičaitytė, KTU; Prof. dr. Mindaugas Daukšys; Assoc. prof. dr. Eglė Klumbytė, KTU; Assoc. Prof. dr. Indrė Gražulevičiūtė-Vileniškė, KTU; Assist. dr. Ingrida Povilaitienė, KTU; Assist. dr. Ignacio Villalon Fornes, KTU

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Conference website

https://sbe.ktu.edu/