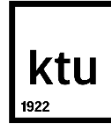


KAUNAS UNIVERSITY OF TECHNOLOGY



FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE

The student scientific conference “Smart Built Environment” (remote)

2021-11-26 10:00 am

Agenda

Friday, November 26

Time zone Vilnius (GMT +3)

To access conference remotely, please visit the link: <https://litedm.zoom.us/j/86537492157>

10:00 *Opening of the conference.*

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

The Plenary Session of the Conference

The chairman Villalon Ignacio Fornes

10:05 *Sustainable transformation of living environments*

Speaker: Johan De Wachter.

10:25 *Airborne transmission of COVID-19 in indoor air*

Speaker: Gabriel Bekö.

10:40 *The role of Remote Working in smart cities: lessons learnt from COVID-19 pandemic*

Speaker: Paris A. Fokaides.

Presentations of the Conference

The chairman Lina Morkūnaitė

11:00 *Analysis of Geothermal Heating Possibilities for District Heating Networks in Lithuania*

Speaker: Pijus Stankevičius, Kaunas University of Technology. Co-author Rokas Valančius.

- 11:10 *Vertical Gardens to Tackle the Climate Change*
Speaker: Rasa Bielskytė-Masiokė, Kaunas University of Technology
- 11:20 *Possibilities of Management and use of Lithuanian Manor Houses Located in Regional Parks*
Speaker: Otilija Tolkačiova, Kaunas University of Technology
- 11:30 *Biophilic design: Literature Review and Emerging Trends*
Speaker: Gediminas Viliūnas, Kaunas University of Technology. Co-author Indrė Gražulevičiūtė-Vileniškė
- 11:40 *Manufacturing of Lightweight Concrete Using "Green" Technology by Curing in CO₂ Environment*
Speaker: Justas Barauskas, Kaunas University of Technology
- 11:50 *Manufacturing of Pressed Concrete Products using "Green" Technology by Curing it in CO₂ Environment*
Speaker: Eglė Steponavičiūtė, Kaunas University of Technology
- 12:00 *Research in prevention of carbonate corrosion in concrete*
Speaker: Harishkumar Parasuraman, Kaunas University of Technology. Co-author Algirdas Augonis.
- 12:10 *The use of Building Information Modeling in Facility Management*
Speaker: Laimonas Ūselis, Kaunas University of Technology
- 12:20 *Study of Possibilities of Urban Environment Adaptation to Climate Change: Cases of Kaunas and Ivano-Frankivsk*
Speaker: Andrii Fedoronchuk, Kaunas University of Technology. Co-author Indrė Gražulevičiūtė-Vileniškė
- 12:30 *Analysis of High Ceiling Building Heating System Solutions and Their Impact on Microclimate and Energy Efficiency*
Speaker: Paulius Vestfal, Kaunas University of Technology
- 12:40 *The Investigation of Concrete Shrinkage Reducing Admixtures*
Speaker: Martynas Statkauskas, Kaunas University of Technology. Co-author Audrius Grinys
- 12:50 *Structural and Technological Solutions of Massive Concrete Structures*
Speaker: Liutauras Šarkus, Kaunas University of Technology

13:00-14:00

Lunch break

Presentations of the Conference

The chairman Paulius Spūdys

- 14:00 *Study of the Influence of Soil Thermo-accumulation on Heating of Buildings*
Speaker: Tautvydas Lenkas, Kaunas University of Technology
- 14:10 *Study of self-cleaning material surfaces under UV radiation*
Speaker: Klaudijus Balsys, Kaunas University of Technology
- 14:20 *The Influence of Window Installation Position and Window Technical Parameters on the Energy Efficiency of the Building*
Speaker: Elvinas Paulikaitis, Kaunas University of Technology
- 14:30 *Accuracy Assessment of 3D photogrammetric models analysing bridge structures*
Speaker: Martynas Arbačiauskas, Kaunas University of Technology
- 14:40 *Impact of Environmental Conditions on the Bond Strength Between Flexible Tiles and Substrates*
Speaker: Rokas Kučinskas, Kaunas University of Technology
- 14:50 *Thermal Physics Processes Through Window Openings of Buildings*
Speaker: Justas Terentjevas, Imperial College London. Co-authors: Monika Šadauskaitė, Jolanta Šadauskienė, Juozas Ramanauskas, Andrius Buska, Paris A. Fokaides.
- 15:00 *Analysis and Research of Concrete Floor Surface Treatment Methods*
Speaker: Emilija Želvytė, Kaunas University of Technology
- 15:10 *Evaluation of New Smart Readiness Indicator and Analysis of its Impact for Energy Efficiency of Buildings Increase*
Speaker: Gvidas Plienaitis, Kaunas University of Technology
- 15:20 *Heated Floor System Technical Parameter Impact on the Systems Operation Indexes*
Speaker: Tadas Valionis, Kaunas University of Technology

- 15:30 *Steel Frame Strengthening*
Speaker: Mantas Bučys, Kaunas University of Technology
- 15:40 *Stiffness Analysis of Cracked Reinforced Concrete Members*
Speaker: Aistė Švilpauskaitė, Kaunas University of Technology
- 15:50 *Punching Analysis of Reinforced Concrete Flat Slabs*
Speaker: Arnoldas Straukas, Kaunas University of Technology
- 16:00 *The analysis of flat slab maximum punching shear resistance with and without shear reinforcement*
Speaker: Tumantas Nikonovas, Kaunas University of Technology
- 16:10 *Curing temperature as main factor affecting the strength of alkali-activated slag*
Speaker: Abdur Rehman, Kaunas University of Technology. Co-authors: Danutė Vaičiukynienė, Aras Kantautas.
- 16:20 *Numerical Assessment of the energy performance of Greenhouses in Baltic Countries with the use of Building Information Modelling*
Speaker: Andžela Pudževelytė, Kaunas University of Technology
- 16:30-17:00 *Discussion*
- 17:00 *Conference Closing*

Scientific committee: Prof. dr. Andrius Jurelionis, KTU; Doc. Dr. Mindaugas Augonis, KTU; Prof. dr. Mindaugas Daukšys, KTU; Prof. dr. Kęstutis Zaleckis, KTU; Dr., Ing. Paris A. Fokaides, KTU, Frederick University (Cyprus); Prof. dr. Jūratė Kamičaitytė, KTU; Doc. Dr. Donatas Rekus, KTU.

Organizing committee: Doc. dr. Aušra Mlinkauskienė, KTU; Doc. dr. Laura Stasiulienė, KTU; Doc. dr. Indrė Gražulevičiūtė-Vileniškė, KTU; Viktoras Jasaitis; Gintarė Stankevičiūtė; Lina Morkūnaitė; Paulius Spūdys; Villalon Ignacio Fornes.