

CTU UCEEB CONFERENCE 2020

THURSDAY
4TH JUNE 2020
9 AM - 4 PM

University Centre for Energy Efficient Buildings CTU would like to invite you to a full day of online presentations introducing its current and completed research topics. The event will take place on Thursday 4 June 2020 from 9 am to 4 pm. See the conference programme below.

The event will be held in English and it is aimed at CTU staff and organisations involved/interested in the topic of energy efficient buildings.

Attendance is free of charge. Please register online or use QR code below until 1 June. We will send you the link to the conference with the confirmation of your registration.

This activity is within the project LTI19013, supported by MŠMT Inter-Inform programme.

2020 CONFERENCE PROGRAMME

09:00 – 09:10 **CTU UCEEB 2020**
Lukáš Ferkl

09:10 – 09:20 **CAMEB – Centre for Advanced Materials and Efficient Buildings**
Lukáš Ferkl

BUILDING CONSTRUCTION AND MATERIALS

09:20 – 09:35 **Possibilities and Efficiency of the Use of Recycled Materials in Building Structures (RENCO)**
Tereza Pavlů, Jan Pešta

09:35 – 09:50 **Moisture Risks and Biodegradation in the Crawl-Space of Kindergarten Building – Causes and Solutions**
Kamil Staněk

09:50 – 10:05 **Fire Development Modelling of Engineered Wood (Pyroboard)**
Petr Hejtmánek

10:05 – 10:20 **Development and Advanced Prefabrication of Innovative, Multifunctional Building Envelope Elements for Modular Retrofitting and Connections (MORE-CONNECT)**
Antonín Lupíšek

10:20 – 10:35 **Examples of the Application of Electron Microscopy in the Analysis of Building Materials**
Petr Svora, Pavla Bauerová

10:35 – 10:50 **Roof Structure Monitoring of Winter Stadium in Kladno**
Lukáš Velebil

ENERGY PERFORMANCE OF BUILDINGS

10:50 – 11:05 **Energy Active Curtain Walling Facades**
Tomáš Matuška

11:05 – 11:20 **Hybrid Photovoltaic-Thermal Collectors**
Nikola Pokorný



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University Centre for Energy Efficient Buildings
Czech Technical University in Prague
Třinecká 1024, 273 43 Buštěhrad
www.uceeb.cvut.cz/en



- 11:20 – 11:35 Water Extraction from Air in Desert Conditions**
Bořivoj Šourek
- 11:35 – 11:55 Wave 120 - Wood Chips Boiler that Produces Both Heat and Electricity**
Jakub Maščuch
- 11:55 – 12:10 Combination of Heat Pump and Photovoltaics for Nearly Zero Energy Building**
Tomáš Matuška
- 12:10 – 12:25 Predictive Control of Battery Storage Using Photovoltaic Energy Source based on Cloud Irradiance Forecast Service**
Petr Wolf

INDOOR ENVIRONMENT

- 13:00 – 13:15 Acoustic Comfort in Residential Buildings**
Jiří Nováček
- 13:15 – 13:30 Residential Ventilation Unit with Thermoelectric Heat Exchanger for Control of Supply Air Temperature**
Daniel Adamovský
- 13:30 – 13:45 Implementation of Clinical Studies Using a Telemedicine System**
Jan Mužík
- 13:45 – 14:00 IQ-Pump: One-Pipe Hydronic Heating 4.0**
Jiří Dostál
- 14:00 – 14:15 IOT Technologies for Monitoring the Indoor and Outdoor Environment**
Jan Včelák
- 14:15 – 14:30 Functionalized Nanofibers for Ultrasensitive Detection, Identification and Long-Term Digital Storage of Odour Traces**
Prof. Evžen Amler

PUBLIC CONSTRUCTION AND MUNICIPALITIES

- 14:30 – 14:45 Transport of Water, Suspended Solids and Heat in Engineered Soils of Urban Green Infrastructure**
Michal Sněhota
- 14:45 – 15:00 Planning of Public Spaces of Small Cities**
Martina Sýkorová
- 15:00 – 15:15 Quality Public Construction: KVAS**
Tomáš Vácha
- 15:15 – 15:30 Cooperation with State Authorities in INTERREG EUROPE Projects**
Tereza McLaughlin Váňová
- 15:30 – 15:45 SPARCS: Blueprint for Municipal Development in City - University Collaboration**
Michal Kuzmič
- 15:45 – 16:00 Informative Presentation with Discussion: Project Funding in the Field of Energy Efficient Buildings**
Karolina Tomešová



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