



20th Building Services Days
Exhibition and DENZERO International Conference
9-10 October, 2014



UNIVERSITY OF DEBRECEN

Conference patron:

Prof. Dr. Zoltán SZILVÁSSY, Rector of University of Debrecen

TECHNICAL PROGRAMME

Thursday, 9th of October 2014 (4028 Debrecen, Ótemető str. 2-4)

8:30 – Exhibition opening (2nd floor) (open till 17:00)
Prof. Dr. István GAÁL, Vice Rector of UD
Dr. Miklós CHAPPON, Honorary Associate Professor, University of Debrecen, President of Building Service Engineering Branch, Hungarian Chamber of Engineers

Exhibition visiting is free of charge.

9:00 – 12:00 Plenary session

***Location: Faculty of Engineering, 4028 Debrecen, Otemeto u. 2-4.
U.0.02 room***

Chairs: Dr. Ferenc KALMÁR, Vice Dean of UD Faculty of Engineering and
Dr. habil Géza HUSI, Vice Dean of UD Faculty of Engineering

Language: English/Hungarian with simultaneous translation

9:00 – 9:05 Prof. Dr. István GAÁL, Vice Rector of UD
Welcoming words

9:05 – 9:20 Dr. habil Edit SZÚCS, Dean of Faculty of Engineering
The role of UD Faculty of Engineering in the regional and national engineering education

9:20 – 10:00 Prof. em. Dr. Dr. hc Derek J. CLEMENTS-CROOME
University of Reading, UK
Sustainable intelligent liveable cities

10:00 – 10:40 Prof. Dr. Hideki HASHIMOTO
Chuo University, Japan
Adjustment of Human Position Sense and it's applications

- 10:40 – 11:00 COFFEE BREAK
- 11:00 – 11:20 Prof. Dr. András NÁBRÁDI, Vice Rector of UD
New teaching methods and experiences in the Faculty of Economics and Business of the University of Debrecen
- 11:20 – 11:40 Prof. Dr. Mariann SOMOSI, Dean
Faculty of Economics, University of Miskolc
Dr. habil Edit SZÜCS, Dean
Faculty of Engineering, University of Debrecen
Comparison of students competency measurements at the University of Debrecen and University of Miskolc
- 11:40 – 12:00 Tamás KORMÁNY, Director General
Kontroll Holding Zrt
*“Say the truth, not only the real”, other
What the message of European statistics of ISO 9001 is?*
- 12:00 – 14:00 LUNCH
- 15:00 – 17:00 ROUND TABLE of Hungarian Coordination Society
of HVAC Engineers
Language: Hungarian
- 15:00 – 15:20 Dr. László KAJTÁR, deputy Head of Department
BUTE, Department of Building Service and Process Engineering
Conformation to the expectation of European Union (IAQ, ventilation vs energy)
- 15:20 – 15:40 Comments, remarks
- 15:40 – 16:00 Attila ZOLTÁN, president
Hungarian Coordination Society of HVAC Engineers
Cooperation in European projects (energy efficiency, renewable energy courses, qualifies, monitoring)
- 16:00 – 16:20 Comments, remarks
- 16:20 – 16:40 Gábor MÓCZÁR, vice president
Hungarian Coordination Society of HVAC Engineers
Energy refurbishments, subsidies (gas equipments, problems and opportunities 2014-2020)
- 16:40 – 17:00 Comments, remarks
- 19:00 – 20:00 Concert of Lyra Symphony Orchestra of Debrecen
CONSERVATORY OF UD (Egyetem tér 1)
- 20:00 – 23:00 Conference Dinner (based on invitation)
University of Debrecen, main building AULA (Egyetem tér 1)
Welcoming words: Prof. Dr. András NÁBRÁDI, Vice Rector of UD

10th of October 2014

Sustainable energy by optimal integration of renewable energy sources

TÁMOP-4.2.2.A-11/1/KONV-2012-0041

Location: Faculty of Engineering, 4028 Debrecen, Óttemető u. 2-4.

ROOM: U.0.02

SESSION 1

Chair: Dr. Ferenc KALMÁR, University of Debrecen
Language: English/Hungarian with simultaneous translation

9:00 – 9:10 Dr. Ferenc KALMÁR, Dr. György CSOMÓS
University of Debrecen
TÁMOP-4.2.2.A-11/1/KONV-2012-0041, DENZERO project

9:10 – 10:00 Prof. Dr. Bjarne W. OLESEN, Fellow ASHRAE
International Centre for Indoor Environment and Energy
Department of Civil Engineering, Technical University of Denmark
Applications of embedded Radiant Heating and Cooling in Buildings

10:00 – 10:15 Dr. Gábor KOZMA
University of Debrecen
Social embeddedness of energy-efficient building methods in the Northern Great Plain Region

10:15 – 10:30 Dr. Roman RABENSEIFER
Slovak University of Technology
Low-Emissivity Layers in Glazing Systems and their Effects

10:30 – 11:10 COFFEE BREAK

SESSION 2

Chair: Dr. Ákos LAKATOS, University of Debrecen
Language: English/Hungarian with simultaneous translation

11:00 – 11:15 Dr. Franco COREN
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale
Mobile Low Cost Thermal System for Mapping

- 11:15 – 11:30 Dr. Sándor SZEGEDI
University of Debrecen
Effects of Macrosynoptic Weather Types on Development of Thermal Excess in Suburban Areas of Debrecen
- 11:30 – 11:45 Dr. Szilárd SZABÓ
University of Debrecen
LiDAR Based Assessment of Roofs – Perspectives for Solar Energy
- 11:45 – 12:00 Dr. Gergely SZABÓ
University of Debrecen
Preliminary Results on the Determination of Solar Energy Potential using LiDAR Technology
- 12:00 – 13:00 LUNCH

SESSION 3

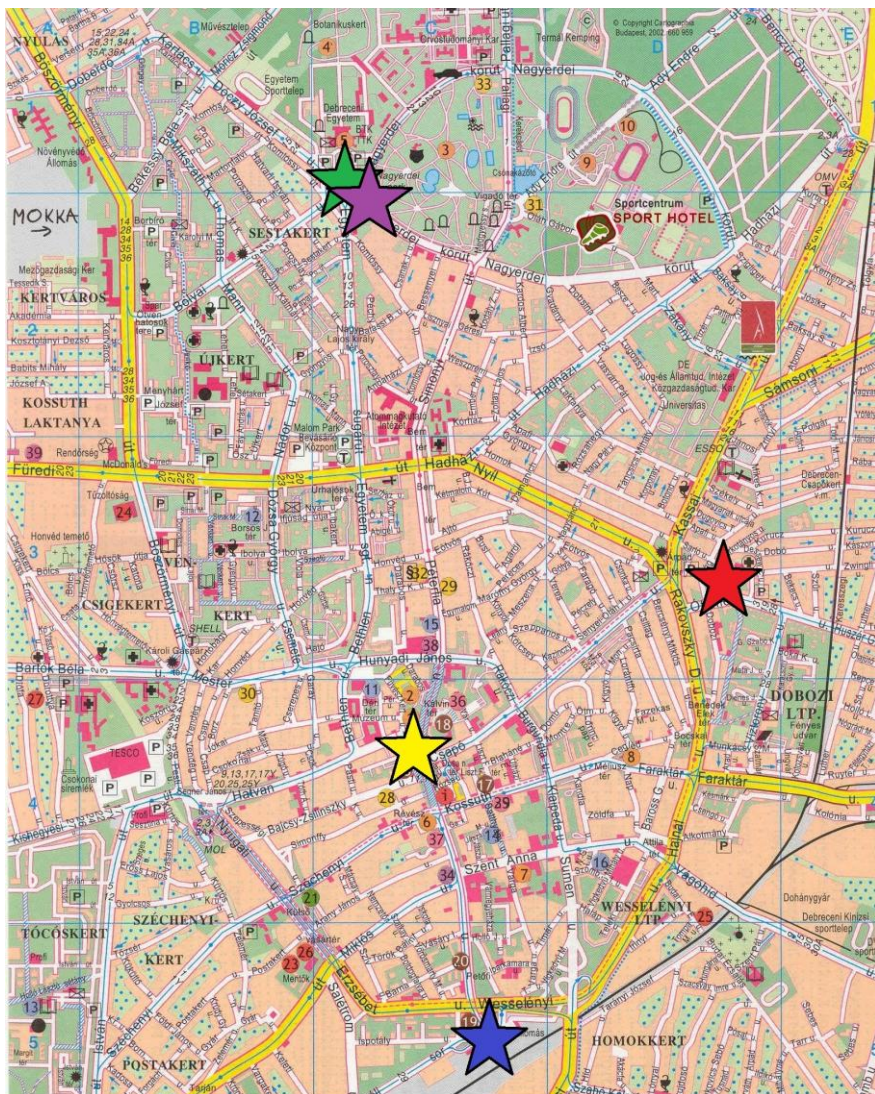
Chair: Dr. György SZABÓ, University of Debrecen
Language: English/Hungarian with simultaneous translation

- 13:00 – 13:15 Sándor HÁMORI
University of Debrecen
The Effect of the Hydraulic Balancing on the Energy Demand of a Refurbished Building
- 13:15 – 13:30 Tamás BUDAY
University of Debrecen
Annual Pattern of the Coefficient of Performance Considering Several Heat Pump Types and its Environmental Consequences
- 13:30 – 13:45 Dr. Péter SZEMES
University of Debrecen
Recent Research Results of Advanced Building Automation
- 13:45 – 14:00 Dr. Árpád CSÍK
Széchenyi István University, Győr
Machine Based Optimization of Building Refurbishments: a Comparative Case Study
- 14:00 – 14:30 COFFEE BREAK

SESSION 4

Chair: Dr. Árpád CSÍK, Széchenyi István University, Győr
Language: English/Hungarian with simultaneous translation

- 14:30 – 14:45 Dr. Andrea MATKÓ
University of Debrecen
Building Energetics Program (Software)
- 14:45 – 15:00 Dr. Norbert BOROS
University of Debrecen
Greywater Treatment and Reuse Possibilities in Households
- 15:00 – 15:15 Gabriella ANTAL, Erika KURUCZ, Prof. Dr. Miklós G. FÁRI
University of Debrecen
Requirements, Results and Problems of Large-Scale in Vitro Biomass Plant Propagation
- 15:15 – 15:30 Dr. Orsolya BÁNYAI
University of Debrecen
The Main Results of a Legal Research on Sustainable Energy Law



 RAILWAY STATION
NAGYÁLLOMÁS

 UNIVERSITY OF DEBRECEN
(MAIN BUILDING)
DEBRECENI EGYETEM
(FŐÉPÜLET)

 MAIN SQUARE (CITY CENTRE)
FÓTÉR (KOSSUTH TÉR)

 FACULTY OF ENGINEERING, UD
DE MŰSZAKI KAR

 CONSERVATORY OF UD
DE ZENEMŰVÉSZETI KAR