

VIRTUAL XIV TIMD INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM

1-4 JUNE 2020

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VIRTUAL 14TH TIMD INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM

01 June 2020 Monday

TURKISH TIME 13:00 | GMT +03:00

Chair: Murat Çakan; Co-chairs: Kemal Gani Bayraktar, Ziya Haktan Karadeniz

13.00- 14.40	Session-1, Opening
13.00-13.10	Opening Remarks; Murat Çakan, Kemal Gani Bayraktar
13.10-13.40	Global energy picture after Covid-19; Fatih Birol
13.40-14.10	Data use in real Estate: indoor environmental quality and building performance: translation into financial value; <i>Frank Hovorka</i>
14.10- 14.40	The need for adaptation options in a warmer urban climate; Levent Kurnaz
14.40-15.00	Break
15.00- 16.50	Session-2, Microclimate and Building Interactions
15.00-15.30	Assessing Urban Heat Islands: Stakes and recent advances in design solutions and technology; <i>Francis Allard</i>
15.30- 16.00	Appropriate heat stress indices and micro scale models for applications in urban studies Andreas Matzarakis
16.00-16.30	Urban green spaces versus urban built environment from the perspective of human thermal sensation. Modeling against mobile measurements; <i>Panagiotis Nastos</i>
16.30-16.50	Urban Heat Island Effect on Building Energy Consumption and Urban Environmental Comfort; <i>Mustafa Leblebici</i>
16.50-17.10	Break
17.10- 18.40	Session-3, PANEL-1; Urban Heat Island

Moderator: Francis Allard

Speakers: Andreas Matzarakis, Panagiotis Nastos, Yunus Arıkan



VIRTUAL 14TH TIMD INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM

02 June 2020 Tuesday

TURKISH TIME 13:00 | GMT +03:00

Chair: Murat Çakan; Co-chairs: Kemal Gani Bayraktar, Gülsu Ulukavak Harputlugil

13.00 - 14.50	Session-4, Outdoor and Indoor Environmental Quality
13.00-13.30	The value chain of Indoor Environmental Quality; Jaap Hogeling
13.30- 14.00	The impact of pollution on Lung Health; Hasan Bayram
14.00-14.30	Impact of emerging smart technologies on building performance management and its impact on the quality of our indoor environments; <i>Ivo Martinac</i>
14.30-14.50	CFD Analysis of Jet Injection Method for Antibacterial Coating in Ventilation Ducts Kenan Kaya
14.50-15.00	Break
15.00 - 16.50	Session-5, Modelling Tools and Simulations
15.00-15.30	Intelligent computing for building performance analysis; Pieter de Wilde
15.30- 16.00	Building Performance Simulation: Challenges and opportunities of IBPSA in a changing world <i>Lori McElroy</i>
16.00-16.30	Application of machine learning models to HVAC systems; Cheol Soo Park
16.30- 16.50	Conceptual framework for an approach for simulation in support of the Net -Zero Water Buildings (NZWB); <i>Timuçin Harputlugil</i>
16.50-17.10	Break
10.50 17.10	- Siduit

Moderator: *Emre Özmen*

Speakers: Atilla Karabulut, Sarven Çilingiroğlu, Azemet Candemir



VIRTUAL 14TH TTMD INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM

03 June 2020 Wednesday

TURKISH TIME 13:00 | GMT +03:00

Chair: Murat Çakan; Co-chairs: Neşe Ganiç, Ece Kalaycıoğlu

13.00- 15.00	Session-7, Low Carbon Future
13.00-13.30	Post Covid Sustainability Efforts: the role of energy efficiency and renewables Oğuz Can
13.30-14.00	Digitalisation in district energy systems; Miha Bobic
14.00-14.30	New trends in thermal energy storage for buildings; Halime Paksoy
14.30-15.00	District Energy Network balancing and optimization; Dmitry Bochkalov
15.00 -15.20	Break
15.20- 17.20	Session-8, Regulatory Framework
15.20-15.50	Nearly zero energy buildings and EPBD implementation in EU; Jarek Kurnitski
15.50-16.20	Rolling out EPB standards in Europe and beyond; Jaap Hogeling
16.20-16.50	Arab AC and Refrigeration Code for Energy Efficient Buildings; Essam Khalil
16.50- 17.20	The Romanian energy performance certificate according to the new set of EPB standards Cătălin Lungu
17.20-17.40	Break
17.40 - 19.10	Session-9, Renewable Energy
17.40-18.10	The role of renewable energy in heating sector; Değer Saygın
18.10-18.40	Renewable energy using innovative approaches; Stephen Roosa
18.40-19.10	Perspectives of Renewable Heat Preparation; Klaus Vajen



VIRTUAL 14TH TTMD INTERNATIONAL HVAC&R TECHNOLOGIES SYMPOSIUM

04 June 2020 Thursday

TURKISH TIME 13:00 | GMT +03:00

Chair: Murat Çakan; Co-chair: Ahmet Arısoy

13.00- 14.15	Session-10, Solar Decathlon Competitons
13.00-13.30	"The first Solar Decathlon in Africa integrated in the research platform Green & Smart Building Park in Morocco"; <i>Badr Ikken</i>
13.30-14.00	Solar Decathlon Europe – Energy Engineering Experiences and Perspectives for SDE21 in Germany; <i>Karsten Voss</i>
14.00-14.15	Architecture design and Energy Performance of TDART house for the Solar Decathlon Africa Competition 2019; <i>Ahachad Mohammed</i>
14.15- 15.00	Session-11, Energy Efficient Buildings and Systems
14.15-14.30	Introduction of Air Handling Units on the European Product Database for Energy Labelling (EPREL); <i>Hüseyin Yüksel</i>
14.30- 14.45	Evaluation of building envelope performance constructed with phase- change materials in terms of heating energy consumption; <i>Eda Köse</i>
14.45-15.00	Innovative Air Conditioning System and Integrated Air Distribution Channel Design for Greenhouse Air Conditioning; <i>Başak Dere</i>
15.00-15.15	Break
15.15- 17.00	Session-12, Resilient HVAC Equipment and System Solutions-I
15.15-15.30	Water efficient technologies for sustainable hotels: The house residence Bomonti sample <i>Gözde Çakır Kiasif</i>
15.30- 15.45	Energy Efficient TIER IV Data Center Design and CFD Analysis of a Rack Layout <i>M. Zeki Yılmazoğlu</i>
15.45-16.00	Investigation of the Effect of Design and Operating Parameters of Heat Exchangers on Annual Energy Consumption for an AHU; <i>Mete Özşen</i>
16.00-16.15	System Analysis of Double Rotary Heat Wheel Air Handling Unit; Murat Özer
16.15-16.30	An Approach to Use of High Pressure Water Mist System for Continuous Operation Arda Aytuğlu
16.30-16.45	CFD Simulation of room heating by a panel radiator; Bülent İmamoğlu
16.45-17.00	A study on the determination of hydrodynamic and thermodynamic parameters in a water collector; <i>Melih Meriç</i>
17.00-17.15	Break



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Chair: Murat Çakan; Co-chair: Ahmet Arısoy

17.15- 18.00	Session-13, Resilient HVAC Equipment and System Solutions-II
17.15- 17.30	Comparison of mechanical systems in commisioning process; Berk Kurtuluş
17.30-17.45	Investigation of Electrostatic Filter Usage and Feasibility in Air Handling Units Süleyman Kavas
17.45-18.00	Investment comparison of plastic and metal pipe systems used at cooling systems in terms of energy consumption; <i>Bülent Bıdı</i>
18.00-18.15	F gas Regulation, Kigali Amendment and Future of Turkish HVAC-R Industry Andaç Yakut
18.15- 18.45	Closing Session
18.15- 18.45	Closing remarks; Ahmet Arısoy, Murat Çakan, Kemal Gani Bayraktar

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