

Improving Energy Efficiency in Commercial Buildings and Smart Communities (IEECB&SC'20)
1-2 December 2020

Tuesday, 1 December

09:00 - 11:00

Session 1. Buildings 1

Chair: Risto Kosonen

Planning for Carbon Neutral in Existing Buildings - An Australian Case Study

Grace Foo, DeltaQ Pty Ltd, Australia

Artificial intelligence for smartness of the efficient and predictive building

Consiglia Mocerino, Sapienza University of Rome, Italy

The impact of the new measures on Building Automation and Controls Systems in the revised Energy Performance of Buildings Directive

Simone Alessandri, European Building Automation and Controls Association (eu.bac), Belgium

Uncertainty and Sensitivity Analysis of Operational Faults in Air Handling Units and Unexpected User Behavior for Energy Efficiency and Thermal Comfort

Lukas Lauss &, Andreas Meier, Technische Universität München, Germany

11:00 - 11:15

Coffee break

11:15 - 13:15

Session 2. Buildings 2

Chair: Elena Camelia Papuc

Boosting energy retrofits in condominiums - Approach and experiences of the European ACER project

Jonas Geissler, Municipal Energy Agency Frankfurt, Germany

Data-driven analysis of building use

Manuel Weber, Munich University of Applied Sciences, Germany

Neighbourhood consultancy centres for the adoption of low-carbon technologies by homeowners: experiences from Dutch initiatives

Erwin Mlecnik, TU Delft, The Netherlands

Room Systems as a Service Platform for Smart Buildings

Risto Kosonen, Aalto University, Finland

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13:15 – 14:00	Lunch break
14:00 – 15:30	<p>Session 3. Lighting <i>Chair: Laura Bellia</i></p> <p>A new approach based on dynamic metric to assess daylighting potential in indoor environments Francesca Fragliasso, Università degli Studi di Napoli Federico II, Italy</p> <p>How COVID-19 has highlighted the need for healthy buildings Gayathri Unnikrishnan, International Well Building Institute, USA</p> <p>A methodology for combining light pollution, energy consumption and aesthetics of lighting design schemes for historical buildings Thanos Balafoutis, Hellenic Open University, Greece</p>
15:30 – 15:45	Coffee break
15:45 – 17:55	<p>Session 4.A Buildings 3 <i>Chair: Francesca Fragliasso</i></p> <p>Water source heat pump and PV installation to reduce CO2 emissions in drinking water treatment stations Javier Llorente, CENER, Spain</p> <p>Chilled water and direct fresh air cooling experiments in action from the RISE ICE datacentre Jonas Gustafsson, RISE Research Institutes of Sweden, Sweden</p> <p>Impact of demand response on thermal comfort for a Leisure Centre Andreea Le Cam, International Energy Research Centre</p> <p>Wide Area Network Planning for Internet Services Eric Kumar, Carnegie Mellon University in Pittsburgh, USA</p>

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Wednesday, 2 December	
9:00 – 11:00	<p>Session 5. ESCO 1 <i>Chair: Paolo Bertoldi</i></p> <p>Energy service market evaluation by bayesian belief network: case of Turkey Rabia Cin, Istanbul Technical University, Turkey</p> <p>Overview of the German Energy Services Market Stela Ivanova, BAFA, Germany</p> <p>Building a Global ESCO Network Søren Lütken, Copenhagen Centre on Energy Efficiency, Denmark</p> <p>Low carbon EE in the cooling sector in India Anant Shukla, Energy Efficiency Services Limited, India</p>
11:00 – 11:15	Coffee break
11:15 – 13:15	<p>Session 6.A Cities 1 <i>Chair: Consiglia Mocerino</i></p> <p>Stuttgart Region's Climate Strategy – taking action for Mitigation and Adaptation Silvia Weidenbacher, Verband Region Stuttgart, Germany</p> <p>Towards climate-neutral districts with the Service and Advice Center for Energetic Neighborhood Development David Uong , Berliner Energieagentur GmbH, Germany</p> <p>A place-based engineering model to map energy efficiency scenarios Valeria Todeschi, Politecnico di Torino, Italy</p> <p>Decarbonising the heating sector of Frankfurt – results from EU-project "Hotmaps" – extra aspect: using excess heat from data centres Paul Fay, City of Frankfurt – Municipal Energy Agency, Germany</p>
13:15 – 14:00	Lunch break

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14:00 – 15:30	<p>Session 7.A Financing <i>Chair: Paolo Bertoldi</i></p> <p>Analysis of the behavior and investment decisions taken to Improve the energy building performances for a non-residential Building: Case Study Elena Camelia Papuc, Technical University of Civil Engineering of Bucharest, Romania</p> <p>The Power and Challenge of Energy Efficiency Finance in the European market Federica Abbinante, Joule Assets Europe, Finland</p> <p>How carbon performance will influence the asset value and therefore becomes a business case for commercial real estate Susann Bollmann, Deutsche Unternehmensinitiative Energieeffizienz e. V. (DENEFF), Germany</p>
15:30 – 15:45	<p>Coffee break</p>
15:45 – 17:45	<p>Session 8. Cities 2 <i>Chair: Valeria Todeschi</i></p> <p>Sheridan College: Collaboration with Communities to Develop Breakthrough Energy Plans and Increase Local Capacity Peter Garforth, Garforth International LLC, USA & Belgium; Garforth International Canada, Inc.</p> <p>Sustainable strategies evaluation in Latin-American urban contexts Chiara Genta, Politecnico di Torino and Università di Torino, Italy</p> <p>Business models for Energy Master Planning of communities and districts Matthias Haase, ZHAW Zurich University of Applied Sciences, Switzerland</p> <p>City of Brampton - Embedding Climate and Energy Planning in its 2040 Vision Peter Garforth, Garforth International LLC, USA & Belgium; Garforth International Canada, Inc.</p>