

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

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

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<b>14:00 – 15:30</b>	<p><b>Session 7.A Financing</b>  <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  <b>Elena Camelia Papuc, Technical University of Civil Engineering of Bucharest, Romania</b></p> <p>The Power and Challenge of Energy Efficiency Finance in the European market  <b>Federica Abbinante, Joule Assets Europe, Finland</b></p> <p>How carbon performance will influence the asset value and therefore becomes a business case for commercial real estate  <b>Susann Bollmann, Deutsche Unternehmensinitiative Energieeffizienz e. V. (DENEFF), Germany</b></p>
<b>15:30 – 15:45</b>	<p><b>Coffee break</b></p>
<b>15:45 – 17:45</b>	<p><b>Session 8. Cities 2</b>  <i>Chair: Valeria Todeschi</i></p> <p>The Journey from Breakthrough Energy and Climate Planning to Sustained Implementation at Sheridan College  <b>Peter Garforth, Garforth International LLC, USA &amp; Gerd Fleischhammer, Ingenieurbuero Gerd Fleischhammer, Germany</b></p> <p>Sustainable strategies evaluation in Latin-American urban contexts  <b>Chiara Genta, Politecnico di Torino and Università di Torino, Italy</b></p> <p>Main elements of climate plans at the district level  <b>Miguel Morcillo, Climate Alliance, Germany</b></p> <p>City of Brampton - Embedding Climate and Energy Planning in its 2040 Vision  <b>Peter Garforth, Garforth International LLC, USA</b></p>