TUESDAY 5TH JUNE

08:15 - 08:45 Coffee and Registration

08:45 - 08:55 Welcome by Andy van den Dobbelsteen, acting Dean of the TU Delft Faculty of Architecture and the Built Environment

08:55 - 09:20 SimAUD 2018 Welcome & Announcements, by Tanja Rakha and Michelle Turnun

09:20 - 09:50 Speech by Peter Russell

09:50 - 10:00 Coffee - served in Berlage Zaal 2

10:00 - 10:15 Questions and Panel Discussion with the Authors

10:15 - 10:30 Artificial Neural Network-Based Modeling for Daylight Experiments (Claire-Louise Lewis, Mihail Panayotchev, A. Benjamin Saposhek)

10:30 - 10:45 OCLVS: A Web-Based Visualizer for Simulated Daylight Performing Building Rooflight, Maria L. Ármanstottir and Myriam Andrenes

10:45 - 11:00 Assessing the Circadian Potential of an Office Building in the South Eastern US (Andrzej Amrzan, Mina Arabpayegi, John Kim, et al.)

11:00 - 11:10 Predicting Duration of Daylight Exposure for Caregivers Using Chance Event Simulation and Climate-Based Daylight Modeling (Short Paper) (Kristian Heid, Olivia Piera)

11:10 - 11:30 Questions and Panel Discussion with the Authors

11:30 - 12:00 Lunch - served in Berlage Zaal 2

12:45 - 13:45 SimAUD Public Keynote (location: Orangehall) - Embracing Daylighting Performance in Human-based Design (Myriam Andrenes)

14:00 - 14:15 Addressing Pathways to Energy Modeling through Multidisciplinary Topology (Izabela Chatzioanniadou, Simon Lamm, Maxim Jelin, et al.)

14:15 - 14:30 Care Study for the Application of Multidisciplinary Computational Design Assessment and Constructability Optimization Tools (Alexander Cordoves, Mathew Himi, Gip Ploker)

14:30 - 14:45 Panoptic Modeling Framework for Architectural Integration of BIPV Systems (Luci Walker, Stefan de Klerk, D宦niel Souto)

14:45 - 15:00 Methodology for Determining Foreclosure Ranges for Daylight and Energy Efficiency in Estonia (Francesco de Luca, Timur Dogen and Jerem Kurnils)


15:15 - 15:30 Questions and Panel Discussion with the Authors

15:30 - 16:00 Coffee - served in Berlage Zaal 2

16:00 - 16:15 Coupled Modeling and Monitoring of Phase Change Phenomena in Architectural Practice (Billie Faircloth, Ryan Welch, Yuliya Sinkevich, et al.)

16:15 - 16:30 Multiaxis Analysis of Double-Skin Envelope Dynamic Hygrothermal Simulation System (Khadijah Abdul-Aziz)

16:30 - 16:45 Adaptive Roof Solutions for Multiple Cooling Conditions (Dami Akin)

16:45 - 17:00 Graphene Embedded Composites for Thermal Performance Optimization of Traditional Construction Materials (Short Paper) (Alfredo Zerde, Garber van Limburg, Stijn, Ricardo Mayor Loque, et al.)

17:00 - 17:15 Questions and Panel Discussion with the Authors

17:15 - 17:45 Afternoon Drinks - served in Berlage Zaal 2

18:45 - 23:15 Conference Dinner and Awards on a sandy beach on the North Sea. A bus leaves from TUDelft at 18:45

18:30 - 20:00 Closing Drinks

WEDNESDAY 6TH JUNE

Energy and Thermal Comfort

08:30 - 08:45 Presentations and Panel Discussion

08:45 - 09:00 Investigating the Link between CO2 Concentration, Thermal Comfort and Occupant Perception in Educational Buildings (Merve Kun, Golden Cals)

09:00 - 09:15 Demand-controlled Ventilation through a Decentralized Mechanical Ventilation Unit for Office Buildings (Robato Polito, Antoni Metol and Fabrizz Roberto)

09:15 - 09:30 Questions and Panel Discussion with the Authors

09:30 - 09:50 Energy and Occupants

09:50 - 10:10 Coffee - served in Berlage Zaal 2

10:10 - 10:45 Urban Models

10:45 - 11:00 OCLVS: A Web-Based Visualizer for Simulated Daylight Performing Building Rooflight, Maria L. Ármanstottir and Myriam Andrenes

11:00 - 11:10 Predicting Duration of Daylight Exposure for Caregivers Using Chance Event Simulation and Climate-Based Daylight Modeling (Short Paper) (Kristian Heid, Olivia Piera)

11:10 - 11:30 Questions and Panel Discussion with the Authors

11:30 - 12:00 Lunch - served in Berlage Zaal 2

Environmental Models and Data Collection

12:45 - 13:45 SimAUD Public Keynote (location: Orangehall) - Research Matters: Architecture, Engineering, and Technology (Dominic Gardner)

14:00 - 14:15 Addressing Pathways to Energy Modeling through Multidisciplinary Topology (Izabela Chatzioanniadou, Simon Lamm, Maxim Jelin, et al.)

14:15 - 14:30 Care Study for the Application of Multidisciplinary Computational Design Assessment and Constructability Optimization Tools (Alexander Cordoves, Mathew Himi, Gip Ploker)

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18:30 - 20:00 Closing Drinks

THURSDAY 7TH JUNE

Generative Urban Design, Energy and Microclimate

08:30 - 08:45 Cellular Automata: Bridge between Building Variability and Urban Form Context (Barbara Anhold-Zandwijk and Bernoen Turkstra)

08:45 - 09:00 Generative Urban Design: Integrating Financial and Energy Issues for Affordable Neighborhood Layout (Dieni Nagy, Lorenzo Vigaro, and David Benavjens)

09:00 - 09:15 Simulation of Urban Microclimate with SIODELINE: microclimate - An Outdoor Comfort Case Study (Clément Imbert, Sagnik Bhattacharya, Duy Tran)

09:15 - 09:30 Validation and Comparison of Different CFD Simulation Software Packages for Urban Wind Environment based on A) Wind Tunnel Benchmarks (Long Li, Aymen Dheema, Michael Donn, et al.)

09:30 - 09:50 Questions and Panel Discussion with the Authors

Innovative Fabrication and Design Process

15:30 - 16:45 Developing a Workflow to Integrate Tree Inventory Data into Urban Energy Models (Faisal Naemeh, Bielana Murru, Ulrike Passe, et al.)

16:45 - 17:00 An Image-based Method to Evaluate Solar and Daylight Potential in Urban Areas (Christina Chatchaphong, Raphael Compagnon and Jerome Kaempf)

17:00 - 17:15 radiant Image based data post-processing and simulation (Rafael Helena, Marlyn Gobbo)

17:15 - 17:30 Identifying the Surface Materials of the Existing Environment Through Plant Cloud Data Attributes (Wiktoria Falcar-Alemany, Michelle Turner, Sevli Yalcinbas)

17:30 - 18:00 Questions and Panel Discussion with the Authors

Presentations and Panel Discussion with Invited Panellists

18:45 - 23:15 Conference Dinner and Awards on a sandy beach on the North Sea. A bus leaves from TUDelft at 18:45

18:30 - 20:00 Closing Drinks