

Forum of Human Centric Indoor Climate

Background

Present requirements for environment in spaces and its design are based on average occupant. It is not possible to provide each occupant with optimal environment because of the large differences in preferences of between people. The individual preferences may change during the day depending on their activities. The performed post-occupancy surveys reveal that typically in buildings with A-class environment occupant dissatisfaction with the thermal environment and air quality is about 30 % and about 50 % with regard to acoustic privacy.

The recent technological development provides possibility for development and implementation in practice better methods for indoor environment design. New solutions for heating, cooling and clean air supply allow for providing each occupant with local, individually controlled optimal environment. The intensive development of sensor technologies makes it possible to monitor occupant physiological conditions and their satisfaction with the local environment and its efficient control. The contribution from our community for its development and implementation in buildings is needed.

Objective

The objective of this forum is to discuss the need for change of the present indoor environmental, new methods for its design and control as well as its implementation in buildings. The idea is to outline to the future roadmap for technical development.

Programme between 09:00-10:30 on Sunday 3.6. 2018

Topic	Speakers	Organisation
Opening	Prof. Risto Kosonen	Aalto University, Finland
How to enhance users' perception on Indoor Climate?	Prof. Joon-Ho Choi	University of Southern California
Methods and technologies to measure wellbeing	Prof. Raimo Sepponen	Aalto University, Finland
Novel solutions for controlled microenvironment	Prof. Arsen Melikov	Technical University of Denmark
How to guarantee better performance of building HVAC systems?	Technical Director Jonas Gräslund	Skanska
Discussion between panelists	Panelist	
Questions from audience	Forum Participants	