

SENSOR+TEST 2016, Nuremberg (Germany), May 12, 2016

Special session – Room Prag, NCC Ost, Level 2

Novel sensor solutions for Indoor Air Quality – Real time monitoring for improved health, comfort and energy efficiency

Organizers: Anton Köck¹, Claude Iroulart², Michele Penza³, Andreas Schütze⁴

1. Coordinator MSP project, Materials Center Leoben Forschung GmbH, Leoben, Austria
2. Coordinator IAQSense project, Efficiency Marketing, Clamart, France
3. Chair COST action TD1105 EuNetAir and Cluster ESSC, ENEA, Brindisi, Italy
4. Coordinator SENSIndoor project, Saarland University, Saarbruecken, Germany

Session aim:

The special session aims at increasing the awareness of novel low-cost sensor solutions for Indoor Air Quality (IAQ), especially for Volatile Organic Compounds (VOCs), to provide ubiquitous sensor systems as key components for demand controlled ventilation. The session will discuss the importance of Indoor Air Quality for health, key contaminants relevant for indoor air quality assessment and solutions to their reduction to achieve healthy buildings. Special emphasis is placed on new developments for low-cost ubiquitous sensor systems developed within three current European projects and their impact on improving IAQ to achieve healthy and green buildings with greatly reduced energy consumption.

Program:

Time	Title	Speaker
10:00	Air Quality and Indoor Air Quality: impact on health and the role of sensors	Michele Penza EuNetAir and ESSC, ENEA, Italy
10:15	State-of-the-art of sensor systems for Indoor Air Quality	Olivier Martimort NanoSense, France
10:30	Integrated microsensor system with selective pre-concentration for ubiquitous IAQ monitoring	Tilman Sauerwald - SENSIndoor Saarland University, Germany
11:00	IAQSense – Real-time Monitoring of Indoor Air? With the innovative Spectrometer on Chip	Mathias Holz - IAQSense nano analytik GmbH, Germany
11:30	Smart multi sensor platforms for intelligent air conditioning systems in building technologies	Anton Köck - MSP MCL, Austria
12:00	Smart building integration for green and healthy buildings	Dr. Martin Zimmermann (tbc) Siemens Building Technologies, Switzerland
12:15	Indoor Air Quality based on smartphone integrated sensor technologies	Dr M Foysol Chowdhury Cambridge CMOS Sensors Ltd, UK
12:30	Discussion	All
13:00	End of special session	