Monday, November 30

08:00 Registration

09:00 **N. Barsan**

Welcome and introduction

■ **Advances in technology** **Chair N. Barsan**

09:10 **L. Maedler, University of Bremen, Germany**

Route to selectivity: FSP multi-layered MOX films

10:00 **I. Freund, Micronas GmbH, Germany**

CMOS Integration of the suspended gate FET gas sensor

10:50 *Coffee Break*

11:10 **D. Briand, EPFL, Switzerland**

Manufacturing of MOX gas sensors: towards plastic substrates?

11:50 C. Oberhuettinger and G. Mueller, EADS, Germany

Simultaneous measurement of resistive and surface ionization gas response on tin oxide surfaces

12:10 N. Blair et al, Alphasense Ltd, UK

Ultra low-power micro-hotplate smart gas-sensor (ULoGS) employing tungsten oxide

12:30 Z. Öztürk et al, Gebze Institute of Technology, Turkey

Metal oxide nanowires and nanotubes for resistive gas detection

12:50 *Lunch*

13:40 M. Andersson and A. Lloyd Spetz, Linkoeping University, Sweden

The use of Metal Oxides in Field Effect High Temperature Gas Sensors

14:00 T. Pisarkiewicz et al, AGH University of Science and Technology, Poland

Gas measurement microsystem in LTCC technology

14:20 T. Doll et al., Johannes-Gutenberg-University Mainz, Germany

External electric field influence on the adsorption-desorption processes of gases in semiconductors

Novel materials — Chair K. Shimanoe

14:40	**Jong-Heun Lee, Korea University, Korea** ***Gas Sensors using Hierarchical and Hollow Oxide Nanostructures***
15:30	Coffee Break
16:00	**K. Shimanoe, Kyushu University, Japan** ***Material design based on wet process for highly sensitive semiconductor gas sensors***
16:50	M.N. Rumyantseva et al, Moscow State University, Russia *Sensor properties of hybrid SnO2-polysilazane materials*
17:10	A. Haensch et al., University of Tuebingen, Germany *Rare earth oxycarbonates based CO2 chemoresistive sensors*
17:30	R. Pearce et al, Linkoeping University, Sweden *Effect of water vapour on ZnO and Ga doped ZnO nanoparticle sensor gas response*
17:50	S. Pokhrel et al, University of Bremen, Germany *Ultra fine nano single crystals of WO3 for gas sensing applications*
18:10	S. Mathur et al, University of Cologne, Germany *Individual metal oxide nanowires in chemical sensing: Challenges and prospects*
19:30	Dinner

Tuesday, December 1

New application fields — **Chair U. Weimar**

09:00 **N. Ishibashi and K. Kaneyasu, Figaro Engineering, Japan**

Development and application of semiconductor gas sensor using MEMS technology

09:50 **Hyung-Gi Byun, Kangwon National University, Korea**

Intelligent sensor system for non-invasive health care monitoring

10:40 *Coffee Break*

11:00 **H. Ulmer, AppliedSensor, Germany**

New applications and development trends for micro-machined MOS gas sensors

11:50 **O. Kiesewetter, UST Umweltsensortechnik GmbH, Germany**

Highly dynamic identification of various gases at trace levels with the UST Triplesensor®

12:40 *Lunch*

13:40 A. Bos, C-it BV, The Netherlands

Mass-employable, MO-based electronic noses and device-independent calibration models

14:00 A. Valleron et al, Ecole Nationale Supérieure des Mines, France

Exhaust gas sensor based on tin dioxide for automotive application

14:20 A. Ponzoni et al, Brescia University

Conductometric gas-sensors based on metal-oxide nanowires for chemical warfare agents detection

14:40 Closing address

N. Barsan, K. Shimanoe, U. Weimar