

Session Program

20-21 Jun 2019

8th GOSPEL Workshop. Gas sensors based on semiconducting metal oxides: basic understanding & application fields

Session 1 - Fundamental understanding - General

Ferrara, Italy

Thursday 20 June

09:00

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Session | Location: Ferrara, Italy

09:00–09:30

Application runs the show: what can we learn about the future from the past?

Speaker

Dr Nicolae Barsan

09:30–09:50

Monitoring Surface Stoichiometry, Work Function and Valance Band of Tungsten Oxide (WO₃), Molybdenum Oxide (MoO₃) and Tin Oxide (SnO₂) Thin Films as a Function of Temperature and Oxygen Partial Pressure with Advanced Surface Sensitive Techniques for Chemical Sensing Applications

Speaker

Dr Ciftiyurek Engin

09:50–10:10

How the gas flow affects conductometric sensor performance

Speaker

Dr Gemma G. Manday

10:10–10:30

Heterogeneous integration of metal oxides - towards a CMOS based multi gas sensor device

Speaker

Anton Koeck

10:30–10:50

Consideration for oxygen adsorption species on SnO₂ semiconductor gas sensors

Speaker

Prof. Kengo Shimanoe

10:50