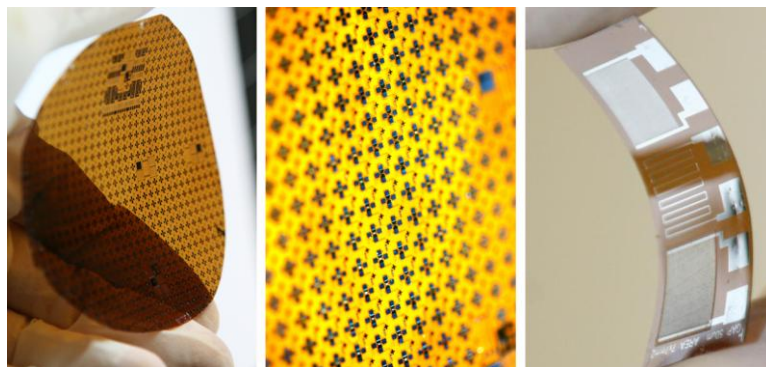


GOSPEL Workshop on Plastic Chemical Sensors

International Congress Center Dresden,
Germany 9-10 April 2008



Flexible chemical sensors made at the Institute of Microtechnology of the University of Neuchâtel, Switzerland and by Institute of Physical Chemistry, University of Tübingen, Germany

Wednesday, 9 April – Plastic chemical sensors and applications

- 10:30 **Registration**
- 13:00 **Danick Briand**
University of Neuchâtel, Switzerland
Nicolae Barsan
University of Tübingen, Germany
Welcome introduction and introduction to the GOSPEL Network of Excellence
- 13:30 **Raghu Das**
CEO IDTechEx Inc, USA
An overview of global printed electronics activities
- 14:10 **Dermot Diamond**
NCSR, Dublin City University, Ireland
Is it time to completely re-think how we do chemical sensing?
- 14:50 **Mark Roberts and Zhenan Bao**
Stanford University, USA
Organic transistors for stable aqueous sensors
- 15:30 **Coffee break**
- 16:00 **Ananth Dodabalapur**
University of Texas, USA
Single channel and dual channel field-effect chemical sensors
- 16:40 **Mohammed Mabrook**
University of Durham, UK
Inkjet printed films of organic materials for chemical sensing
- 17:20 **Michael Turner**
Organic Materials Innovation Centre, UK
Vapour sensing using amorphous organic semiconductors
- 18:00 **Ruth Shinar**
Iowa State University, USA
Organic light-emitting device arrays in structurally integrated chemical and biological sensors
- 20:00 **Dinner**

Thursday, 10 April – Printing technologies: materials, integration of devices and fabs

- 8:30 **Danick Briand**
University of Neuchâtel, Switzerland
Announcements
- 8:40 **Vivek Subramanian**
UC Berkeley, USA
Printed chemical and biosensors: technology, design, and challenges
- 9:20 **Magnus Berggren**
University of Linköping, Sweden
Gating via an electrolyte: devices, materials and processing for low-voltage operating and fast switching electronic systems on flexible foils
- 10:00 **Coffee break and posters**
- 10:40 **Markku Känsäkoski**
VTT Technical Research, Finland
Roll-to-roll manufacturing of low cost diagnostics: examples of optical and microfluidic structures
- 11:20 **Franz Padinger**
CTO NanoIDENT, Austria
Printed sensors
- 12:00 **Lunch and posters**
- 13:00 **Working groups discussions on sensors integration using polymeric technologies**
Conclusions about potential applications and production scenarios for plastic chemical sensors
- 15:30 **End of the Workshop**

GOSPEL Partners

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GOSPEL – General Olfaction and Sensing Projects on a European Level – is a Network of Excellence funded by the European Commission within the 6th Framework Programme. Contract No: IST-507610.

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