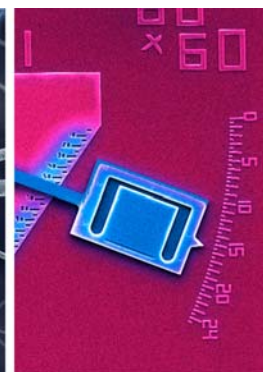
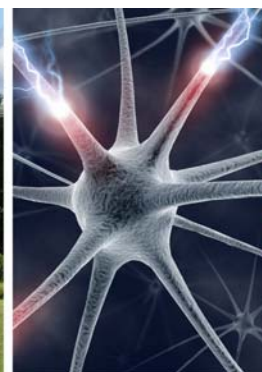


# GOSPEL BioTechno Workshop 2008: From Biological Olfaction to Sensor Technology

Skokloster Wårdshus, Sweden 25-26 February



Photos: Skokloster, Kiyoshi Takahase Segundo/Stockphoto, EURELIOS/SCIENCE PHOTO LIBRARY

9:00	<b>Monday, 24 February</b>	Welcome, Introduction
9:15	<b>P. Mombaerts</b> ; MPI of Biophysics, Germany	Olfaction Targeted
10:00	<b>J.-P. Rospars</b> ; INRA Versailles, France	Predictable and Unpredictable Coding of Odorant Mixtures by Olfactory Receptor Neurons
10:45		<i>Coffee break</i>
11:15	<b>G. Galizia</b> ; University of Konstanz, Germany	Olfactory Coding in Insects
12:00	<b>D. Martinez</b> ; INRIA LORIA, France	A Model of Stimulus-Specific Neural Assemblies in the Insect Antennal Lobe
12:45		<i>Lunch</i>
14:15	<b>M. Sandström</b> ; KTH Sweden	Guided tour in Skokloster Castle
15:30		<i>Coffee break</i>
16:00	<b>S. Bermudez</b> ; University Pompeu Fabra, Spain	A Neuromorphic Approach Towards Artificial Olfaction in Robots
16:45	<b>I. Lundström</b> ; University of Linköping, Sweden	A Possible Platform for Artificial Olfaction
17:30	<b>A. Hierleman</b> ; ETH Zurich, Switzerland	CMOS Technology for Highly Integrated Bioelectronic and Chemo/Biosensor Microsystems
18:15		Discussion
19:30		<i>Common dinner</i>
9:00	<b>Tuesday, 25 February</b>	Announcements
9:15	<b>K. Mori</b> ; University of Tokyo, Japan	Functional Modularization in the odor Maps of the Olfactory Bulb
10:00	<b>T. Cleland</b> ; Cornell University, Ithaca, USA	The computational architecture of biological olfaction
10:45		<i>Coffee break</i>
11:15	<b>A. Lansner</b> ; KTH Sweden	Is Concentration represented by Means of a Labeled Line Code in Early Olfactory Processing?
12:00	<b>S. Marco</b> ; University of Barcelona, Spain	NEUROCHEM: Biologically Inspired Computation for Chemical Sensing
12:25	<b>N. Papamichail</b> ; University of Tuebingen, Germany	ISOCS: International Society for Olfaction and Chemical Sensing
12:45		<i>Lunch</i>
14:15	<b>R. Gutierrez-Osuna</b> ; Texas A&M University, USA	A System-Wide Model of the Olfactory Pathway for Chemosensor Arrays
15:00	<b>T. Nowotny</b> ; University of Sussex, UK	Learning Pattern Classification from the Olfactory System of Insects
15:45		<i>Coffee break</i>
16:15	<b>K. Persaud</b> ; University of Manchester, UK	The Lipocalin Family, Odorant Binding Proteins and Mouse Urinary Proteins: Potential Biomimetic Sensing Systems
17:00	<b>T. Pearce</b> ; University of Leicester, UK	Space and Time in the Nose, an Artificial Olfaction Mucosa
17:45		Discussion
19:00		<i>Farewell Dinner</i>

## GOSPEL Partners

[University of Tübingen](#)  
[AO Actiony](#)  
[Karolinska Institute](#)  
[University of Barcelona](#)  
[ARMINES, St-Etienne](#)  
[KTH, Stockholm](#)  
[University of Bremen](#)  
[CNR-IMM, Lecce & Rome](#)  
[INRIA, Nancy](#)  
[University of Linköping](#)  
[CNRS, Dijon](#)  
[Max-Planck-Institute, Heidelberg](#)  
[University of Manchester](#)  
[ETH Zürich](#)  
[University of Padova](#)  
[IMT, Neuchâtel](#)  
[Silesian University of Technology](#)  
[University of Pavia](#)  
[IMTEK, University of Freiburg](#)  
[University of Rome Tor Vergata](#)  
[IPM-Fraunhofer, Freiburg](#)  
[Umea University](#)  
[VDI/VDE-IT GmbH](#)

### European Coordinator: Dr Udo Weimar

Institute of Physical Chemistry, University of Tübingen, Auf der Morgenstelle 8, 72076 Tübingen, Germany  
 Ph: +49 7071 29 77636 Fax: +49 7071 29 5960 Email: [gospel-ipc@ipc.uni-tuebingen.de](mailto:gospel-ipc@ipc.uni-tuebingen.de)

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.  
 Project Officer: Dr Thomas Sommer.

**GOSPEL**