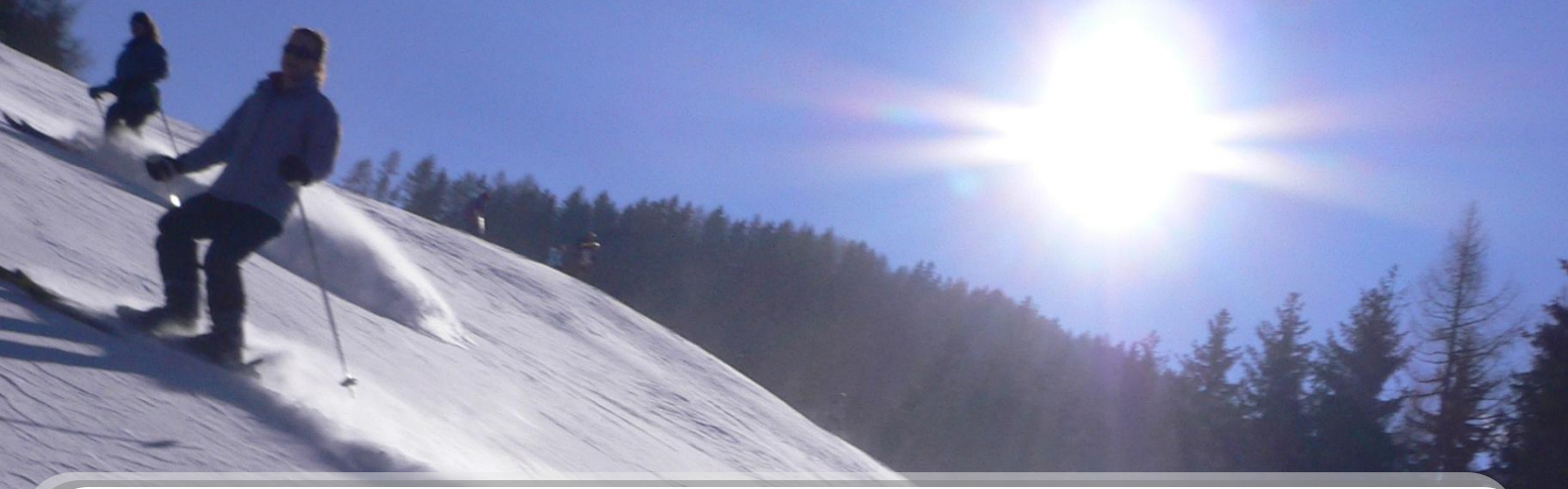
iSOCS Winter School

25-30 March 2010 – Selva di Val Gardena, Italy

Smart Circuits, Systems and Micro-technologies for Chemical and Biological Sensing



Develop your knowledge of smart sensors systems in the field of chemical sensing and artificial olfaction at the ISOCS Winter School in Selva di Val Gardena

The Winter School 2010 will cover topics including:

- Microelectronics and Sensing Technologies
- Smart Chemical Sensor Systems
- Biosensors and Biomimetics
- Data Handling and Sensor Networks
- Future trends and Commercial Opportunities

Speakers

- Prof. Florin Udrea, University of Cambridge, UK
- Dr. Marina Cole, University of Warwick, UK
- Prof. Krishna Presaud, University of Manchester, UK
- Prof. Julian Gardner, University of Warwick, UK
- Dr. Jan Mitrovics, JLM Innovation, Germany

Who should attend?

The School is ideal for anyone with an interest in smart sensors & systems and is new to the field; for example, PhD students, researchers, technologists and industrialists.

The School will cover basic concepts of microelectronics and micromachining fabrication techniques necessary for successful realisation of Smart Sensors and Microsystems. Worked examples range from CMOS-based chemical sensors and integrated biosensors to Lab-on-a-chip and cell-based biosensors.

Register now! Limited places available only!

iSOCS
International Society for Olfaction and Chemical Sensing

www.olfactionsociety.org

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The ISOCS Winter School is delivered by active researchers with international reputations.

Julian Gardner is Professor of Electronic Engineering in the School of Engineering at Warwick University, UK. He is a Fellow of the Royal Academy of Engineering and has worked with more than 25 companies in the past 20 years developing CMOS gas sensors and electronic noses. His current research interests include the fields of smart sensors, biomimetic MEMS devices, and artificial olfaction.

Krishna Persaud is Professor of Chemoreception at the University of Manchester. His interests range from fundamental research into biological transduction mechanisms in olfaction through to the practical application of chemical sensors. Krishna has developed two successful spin-out companies targeting odour measurement and water quality and is also investigating healthcare applications.

Florin Udrea is Professor of Semiconductor in the Engineering Department at Cambridge University. He is also the CEO of Cambridge CMOS Sensors, an SME in the area of CMOS gas sensors. He has founded two companies, one in the area of smart sensors and the other in energy semiconductor devices, the latter recently named the 3rd cleantech company of Europe. His current research interests include power microelectronics, smart chemical/thermal sensors and MEMS.

Marina Cole is Associate Professor and a member of Electronic, Power and Microsystems Research Group within the School of Engineering at the University of Warwick, UK. Her research interests are in integrated silicon-based sensors, smart sensors and microsystems, e-tongues and SAW devices

Jan Mitrovics co-founded a spin-off company to commercialize electronic nose technology in 1997. In 2004 he started JLM Innovation where he develops sensor systems, sensor networks and data analysis tools. Jan has been involved in the development of many different sensor array platforms that are used in a broad range of industrial, consumer, safety and research applications.

The School explores the area of Smart Circuits, Systems and Microtechnologies for Chemical and Biological Sensing. We have put together an exciting program which will provide attendees with both theoretical background and practical experience in the above areas. Topics will be delivered by lectures, discussion and laboratory demonstration sessions. Participants will need to bring their own laptops, but will be supplied with sample data and evaluation software. The computing laboratories do not need a high performance computer and can be carried out on a basic laptop running the windows operating system.

The School is residential and the programme allows plenty of scope for networking with lecturers and other delegates. Lectures take place in the morning, with the afternoon free for participants to network, consolidate their knowledge or enjoy the outdoors. We encourage people to ski in the afternoon and we have among us, the organisers, very keen skiers. Discussion sessions and labs resume in the evening.

The venue is the superb Hotel Oswald, and the price includes all accommodation and meals. Participants may choose either a single room (1,175€), or to share with another participant at a **reduced fee (975€ for each participant)**. Students will receive **free ISOCS membership for 2010**. Accompanying persons are also welcome.

For full programme and conditions visit: www.olfactionsociety.org

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