

iSOCS Short Course 2015

19 - 21 November 2015 – Penang, Malaysia

Chemical Sensing: Fundamentals, Current Technologies, and Applications

Develop your knowledge of chemical sensing at the ISOCS Short Course in Penang, Malaysia

This Short Course will cover topics including:

- Fundamentals on e-nose and e-tongue
- Overview on chemical sensor technologies
- Biosensors for chemical detection
- Sampling technologies
- Data analysis: classification and data fusion
- Food, health, and environmental applications
- Mobile applications
- Mobile robot olfaction
- Monitoring of water quality

Speakers

- Prof. Krishna Persaud, University of Manchester, UK
- Dr. Nicolae Barsan, Tübingen University, Germany
- Dr. Patrick Mielle, INRA, Dijon, France
- Dr. Jan Mitrovics, JLM Innovation, Germany
- Dr. Ammar Zakaria, Perlis University, Malaysia
- Prof. Ali Yeon Md Shakaff, Perlis University, Malaysia
- Dr. Nor Idayu Mahat, University of Utara, Malaysia
- Dr. Masaaki Habara, Intelligent Sensor Tech., Inc., JP
- Prof. Hiroshi Ishida, Tokyo U Agriculture and Tech, JP
- Dr. Sing Muk NG, Swinburne U. of Tech. Malaysia

Who should attend?

The Short Course is ideal for anyone with an interest in electronic noses or tongues and their applications and is new to the field; for example, PhD students, researchers, technologists and industrialists.

Short Courses organized by ISOCS are a unique combination of fundamental theory lectures and practical application exercises. They provide a head start into selected topics of current research and new developments in the area of chemical sensing, biosensing, olfaction and applications. Most lecturers will be present throughout the duration of the course. Ample opportunity is given for discussion and networking.

Register now! Limited places available only!

For more information please visit www.olfactionsociety.org/Penangcourse2015

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The ISOCS Short Course is delivered by active researchers with international reputations.

Krishna Persaud is Professor of Chemoreception at the University of Manchester, UK. His interests range from fundamental research into biological transduction mechanisms in olfaction through to the practical application of chemical sensors.

Nicolae Barsan is a senior researcher at the Institute of Physical Chemistry of the University of Tübingen. His research focuses on the basic understanding of sensing with metal and on developing technologies for devising better gas sensing materials.

Patrick Mielle has been working since 1993 on semiconducting gas sensors, and their use in food quality control. His main objective has been to develop a system for fast and on-line analysis of food products.

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.

Masaaki Habara received his Dr. Eng degree from Kyushu University in 2002. He worked as a researcher of Kyushu University until 2011, and joined Intelligent Sensor Technology, Inc. as a Research & Development Manager in 2011.

Hiroshi Ishida is associate professor in Graduate School of Bio-Applications and Systems Engineering at the Tokyo University of Agriculture and Technology. His research interests are in mobile robot olfaction and olfactory displays.

Nor Idayu Mahat is a senior lecturer in School of Quantitative Sciences with major interests in multivariate analysis, statistical modelling and pattern recognition. She practices her quantitative discipline in various areas including engineering, food, medicine and environmental application.

Ali Yeon Md Shakaff is Professor at the Centre of Excellence for Advanced Sensor Technology, Universiti Malaysia Perlis. His current research interest is in the practical applications of E-Nose and E-Tongue in agriculture, food and environmental monitoring.

Sing Muk NG is Senior Lecturer and appointed as the Associate Director in Swinburne Sarawak Research Centre for Sustainable Technology. His research interest focuses on the development of bio/chemical sensors using different novel materials and detection techniques.

Ammar Zakaria is a senior researcher at Centre of Excellence for Advanced Sensor Technology, Universiti Malaysia Perlis. His research interest is mainly in Food Quality Assurance and Sensor Fusion.

The Short Course is residential and the programme allows plenty of scope for networking with lecturers and attendees. Lectures take place in the morning and afternoon, with plenty of time for participants to network, consolidate their knowledge or enjoy the outdoors.

The venue is the superb COPTHORNE ORCHID HOTEL, located at the popular Tanjung Bungah (Flower Cape) beach. The course fee is of RM1750.00 (350€) and the hotel accommodation including all meals is of RM160.00 (44€) person/night in a single room or RM220.00 (32€) sharing a double room. Students will receive **free ISOCS membership for 2016**. Accompanying persons are also welcome.

For full programme and conditions visit: www.olfactionsociety.org/Penangcourse2015/

ISOCS is a multidisciplinary community of leading academics and industry. It advances the research and application of olfaction and chemical sensing by: Promoting interdisciplinary exchanges, Consolidating diverse expertise, Improving skills for researchers, Facilitating the use of chemical sensing in appropriate applications

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