

ISOCS-SNIFFPHONE

Winter Short Course

5-10 March 2017 – Ponte di Legno – Brescia – Italy

Breath analysis with chemical sensor arrays

Develop your knowledge on breath analysis in the field of chemical sensing at the ISOCS – SNIFFPHONE Short Course in Ponte di Legno, Brescia, Italy

This Short Course will cover topics including:

- Introduction to chemical sensors
- Electronic nose concepts
- Sampling of breath
- Applications of breath analysis
- Data analysis of sensor arrays
- External validation methods
- Medical aspects of breath analysis
- SniffPhone project last advances
- Demonstration of the SniffPhone prototype

Speakers

- Prof. Julian Gardner, University of Warwick
- Prof. Hossam Haick, Technion, Israel
- Prof. Corrado Di Natale, University Tor Vergata, Roma
- Prof. Arnaldo D'Amico, University Tor Vergata, Roma
- Prof. Marcis Leja, University of Latvia at Riga
- Dr. Jan Mitrovics, JLM Innovation, Tübingen, Germany
- Dr. Santiago Marco, University of Barcelona, Spain
- Dr. Veronica Sberveglieri, CNR -IBBR
- Dr. Christopher Mayhew, University Innsbruck, Austria
- Dr. Andrea Ponzoni, CNR-INO
- Dr. Vera Ruzsanyi, University Innsbruck, Austria

Who should attend?

The Short Course is ideal for anyone with an interest in chemical sensors and olfaction, its application to breath analysis, 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 an introduction into selected topics of current research and new developments in the area of chemical sensing and olfaction. In this edition, you will have the unique opportunity to attend to the last developments in the European project Sniff Phone that aims at detecting lung diseases using a chemical sensor array. Most lecturers will be present throughout the duration of the course. Ample opportunity is given for discussion and networking.

ISOCS

International Society for
Olfaction and Chemical Sensing



SNIFFPHONE

Smart Phone for Disease Detection from Exhaled Breath

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Ponte di Legno is an Italian comune of 1,773 inhabitants in Val Camonica, province of Brescia, in Lombardy (www.comune.ponte-di-legno.bs.it/pages/home.asp). The venue is at the Hotel Pineta *** - Ponte di Legno (Brescia) Italy which is located close to the ski slopes, and close access to many famous ski resorts.



ISOCS-SNIFFPHONE Course, 5 – 10 Mar. 2017, Ponte di Legno

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

Prof. Julian Gardner is Professor of Electronic Engineering at Warwick University, UK. His current research interests include the smart sensors, biomimetic MEMS devices, and artificial olfaction.

Prof. Hossam Haick is Professor in the Department of Chemical Engineering at the Technion – Israel Institute of Technology. He is an expert in the field of nanotechnology and non-invasive disease diagnosis

Prof. Corrado Di Natale is Professor at the University of Rome Tor Vergata. His research activity is focused on bio-sensors, artificial sensing, olfaction, taste, and organic and molecular materials.

Prof. Arnaldo D'Amico is professor Professor Emeritus at the University of Rome Tor Vergata. His main research activities are concerned with the development of physical and chemical sensors, low voltage electronics, noise, and advanced electronic devices.

Prof. Marcis Leja is Professor of medicine, vice-dean of the faculty of medicine and head of the department of research at the University of Latvia.

Dr. Jan Mitrovics is founder and CEO of JLM Innovation, where he develops sensor networks, electronic nose and data analysis tools for a broad range of industrial, consumer, safety and research applications.

Dr. Santiago Marco is associate professor at the Electronics department of the University of Barcelona and Group leader at the Institute for Bioengineering of Catalonia.

Dr. Veronica Sberveglieri researcher at the Institute of Biosciences and Bioresources (IBBR) of CNR. Her research activities are mainly dedicated to the development of novel applications for electronic nose systems in food field.

Dr. Christopher Mayhew is researcher at the Institute for respiratory gas analysis at the University of Innsbruck. His research interests include breath analysis for disease detection.

Dr. Andrea Ponzoni Researcher at the National Institute of Optics (INO) of CNR. His research activities are focused on metal oxide nanostructured materials, solid state gas sensors.

Dr. Veronika Ruzsanyi is researcher at the University of Innsbruck.

The Short Course explores the area of chemical sensing of breath analysis and its applications. We have put together an exciting program that 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 Short Course is residential and the programme allows plenty of scope for networking with lecturers and attendees. 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 amongst us, the organisers, some keen skiers. Discussion sessions and labs resume in the early evening before evening dinner.

The venue is at the Hotel Pineta *** - Ponte di Legno (Brescia) Italy which is located close to the ski slopes, and close access to many famous ski resorts. The price for ISOCS members is 750€ double room and 850€ single room. For non-ISOCS members the price is 850€ double room and 950€ single room. It includes all accommodation and meals. To become a member of ISOCS visit our website www.olfactionsociety.org.

For full programme, conditions, and registration visit: www.olfactionsociety.org/wintercourse2017/

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