iSOCS
International Society for Olfaction and Chemical Sensing

ISOCS Short Course

June 14, 2013 – Hotel Scheidberg, Wallerfangen, Germany

Chemical Sensors for Breath Analysis

Overview

The Short Course explores chemical sensors in breath analysis provides and covers knowledge on chemical sensors, data analsis and breath analysis for lung cancer detection as well as established medical practices for lung cancer detection.

The main objective is to give an overview of the available technologies and current research with a focus on practical applicability and real life problems.

The short course is ideal for medical scientists, clinicians and industrialists who want to get a head start on chemical sensors in breath analysis, and for researchers and engineers who want to use their technology in lung cancer breath analysis.

Friday, June 14, 2013

09:00 – 10:30	A Comprhensive Review of Lung Cancer - Understanding the UNMET need in Lung Cancer An overview on lung Cancer from clinical perspective emphasizing the UNMET need in the diagnostic avenue. Challenges, practical issues and a wish list from the medical practitioner	**Nir Peled**
10:30 – 10:45	Coffee break	
10:45 – 12:15	Chemical Sensors Overview of chemical sensor technologies and their applicability to breath analysis. Advantage and disadvantages of the different technologies in breath analysis applications.	**Hossam Haick**
12:15 – 13:45	Lunch	
13:45 – 15:15	Data Analysis for Chemical Sensors Introduction to data analysis for chemical sensors. Filtering, extraction, s**tatistical methods, pattern recognition. Good practices and pitfalls.**	**Santiago Marco**
15:15 – 15:30	Coffee break	
15:30 – 17:00	Practical examples and hands-on demonstration of chemical sensors and sensor arrays. Life demonstration of different chemical sensor systems	**Jan Mitrovics**

Organizers: Prof. Santiago Marco, University of Barcelona, Spain
Dr. Jan Mitrovics, JLM Innovation GmbH, Germany

Additional Lecturers: Prof. Hossam Haick, Technion - Israel Institute of Technology
Dr. Nir Peled, Sheba Medial Center, Israel

For further information visit: **www.olfactionsociety.org/course/breath2013**

or contact Dr Jan Mitrovics (jan.mitrovics@jlm-innovation.de)