



Scuola Politecnica e
delle Scienze di Base



Università degli Studi di Napoli Federico II

neaPòlis

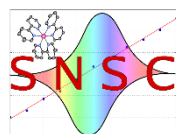


First National School on Chemical Sensors

*Interdivisional Group of Sensors
Italian Chemical Society (SCI)*

Napoli May 24-26, 2017

Department of Chemical Sciences
Complesso Universitario Monte S. Angelo
Area Centri Comuni Scienze – Aula Lauree



I Scuola Nazionale
Sensori Chimici

<http://www.soc.chim.it/it/gruppi/sensori/Scuola2017>

Organized with the contribution of University of Napoli "Federico II"



SCIENTIFIC PROGRAM

Wednesday, May 24th

13:00 -14:00 Participants registration
14:00 -14:30 Introduction & welcome

✓ **Session 1: Materials in sensor fabrication**

Chair: Mara Mirasoli - University of Bologna

14:30 -16:30 **Lesson 1: Chiara Zanardi**
University of Modena and Reggio Emilia
“Nanostructured surface coatings in electrochemical sensing”

16:30 -18:30 **Lesson 2: Kyriaki Manoli**
University of Bari
“Biologically sensitive thin film transistors: general aspects and advances”

20:45 *Social Event – Real Neapolitan Pizza*

Thursday, May 25th

✓ **Session2: Mechanisms of signal transduction**

Chair: Gianfranco Gilardi - University of Torino

9:00 - 11:00 **Lesson 3: Fethi Bedioui**
Centre National de la Recherche Scientifique (CNRS) – Paris
“Contribution of molecular design and electrocatalysis to improve the selectivity and the sensitivity of electrochemical sensor”

11:00 - 11:30 *Coffee break*

11:30 - 13:30 **Lesson 4: Luca De Stefano**
CNR- Institute for Microelectronics and Microsystems - Napoli
“Chemical and biochemical optical sensors based on nanostructured porous materials”

13:30 - 14:50 *Lunch*

Chair: Dario Compagnone - University of Teramo

- 14:50 - 15:10 **Exhibitor Talk 1 (by GE Healthcare): Mabel Saiz Villanueva**
"Biacore (SPR Technology) and its use in multidisciplinary fields"
- 15:10 -15:30 **Exhibitor Talk 2 (by Methrom Italiana-DropSens): Ricardo Carvalho**
"Towards Development of Smart and Portable Devices for Fast, Simple and Sensitive Electrochemical Biosensing using Screen-Printed Electrodes"
- 15:30 -16:00 **Special Note – A start-up experience (by Detoxizymes): Teresa M. Carusone**
"Detoxizymes s.r.l.s.: an example of innovative start-up in the field of biotechnology applied to human health and environment security"
- 16:00 -16:30 *Coffee break*
- 16:30 -18:30 **Lesson 5: Mara Mirasoli**
University of Bologna
"Luminescent biosensors for point-of-care testing and mobile chemistry applications"
- 21:00 *Social Dinner*

Friday, May 26th

✓ **Session3: Recognition elements**

Chair: Cosimino Malitesta - University of Salento

- 9:00 - 11:00 **Lesson 6: Karsten Haupt**
Sorbonne Universités, Université de Technologie de Compiègne, CNRS
"Biomimicry at the molecular level: Micro and nanofabricated molecularly imprinted polymers as recognition elements for chemical sensors"
- 11:00 - 11:30 *Coffee break*
- 11:30 - 13:30 **Lesson 7: Gianfranco Gilardi**
University of Torino
"Bioelectrochemical sensing of cytochrome P450 activity: applications in drug and steroid metabolism"
- 13:30 - 14:30 *Lunch*
- 14:30 -16:30 **Lesson 8: Alessandro Porchetta**
University of Roma "Tor Vergata"
"Engineering DNA-based nanoswitches for sensing and diagnostic applications"
- 16:30 -17:00 *Closing remarks*