

AQUASENSE project Summer School on "Sensor Technologies for Water Monitoring"

Chairmen: Leandro Lorenzelli (FBK, Trento), Ravinder Dahiya (University of Glasgow)

25 September 2019 Materials for sensors	26 September 2019 Sensors and Technologies	27 September 2019 Systems and applications
8.30 – 8.45 Welcome: AQUASENSE Project and summer school overview (Chairs: Leandro Lorenzelli, Ravinder Dahiya)	8.45 - 9.00 Introduction to the program of the day (Chair: Andrea Adami, Fondazione Bruno Kessler, Italy)	8.45 - 9.00 Introduction to the program of the day (Chair: Viviana Mulloni, Fondazione Bruno Kessler, Italy)
8.45 - 9.00 PhD Program at FBK (Bernardo Magnini)		
9.00 – 10.00 New materials for micro-scale sensors and actuators (Magnus Willander, University of Linkoping, Sweden)	9.00 – 10.00 Optofluidic micro and nanostructured devices and systems for (bio)sensing (Giuseppe Barillaro, University of Pisa, Italy)	9.00 - 10.00 Methodologies for the environmental monitoring (Nico Salmaso, Fondazione Edmund Mach, Trento, Italy)
10.00-10.15 TEA/COFFEE BREAK	10.00 -10.15 TEA/COFFEE BREAK	10.00 -10.15 TEA/COFFEE BREAK
10.15 - 11.15 Fabrication of integrated sensor and actuator platforms by Supersonic Cluster Beam Deposition (Paolo Milani, University of Milano, Italy)	10.15-11.15 Printed sensors: technologies and applications (Paolo Lugli, Free University of Bozen-Bolzano, Italy)	10.15 – 11.15 - Water quality monitoring in rivers and lakes of Trento province (Catia Monauni, APPA Trento – Trento Province Environmental Protection Agency)
11.15-12.15 Microfluidics: an overview (Andrea Adami, Fondazione Bruno Kessler, Italy)	11.15 – 12.15 Photonics sensors (Georg Pucker, Fondazione Bruno Kessler, Italy)	11.15-12.15 Chemical gas sensors for agri-food water management (Barbara Fabbri, University of Ferrara, Italy)
12.15-13.15 Surface treatments for biosensing (Cecilia Pederzoli, Fondazione Bruno Kessler, Italy)	12.15-13.15 Machine Learning methods for data analysis (Marco Cristoforetti, Fondazione Bruno Kessler, Italy)	12.15-13.15 Multifunctional micro- and nanosystems for chemical and physical sensing (Luca Francioso, CNR-IMM, Italy)
13.15- 14.30 LUNCH & POSTER SESSION	13.15 -14.30 LUNCH & POSTER SESSION	13.15 -14.30 LUNCH & POSTER SESSION
14.30 -15.30 FBK Facility Tour LABSSAH and CLEAN ROOM	14.30-15.30 Silicon-based microfabrication technologies (Benno Margesin, Fondazione Bruno Kessler, Italy)	14.30 - 15.30 Statistical process optimization through design of experiment (Alessio Bucciarelli, Fondazione Bruno Kessler, Italy)
15.30– 17.30 3D PROM Mechatronics Pole (lab visit) in Rovereto City	Group 1 - 15.30 – 17.30 Hands on MEMS (lab visit and experimental lessons) (Viviana Mulloni, Fondazione Bruno Kessler, Italy)	Group 1 - 15.00-17.30 Ink Jet printer – How does it works? (Matteo Ghittorelli, Andrea Adami, Fondazione Bruno Kessler, Italy)
	Group 2 - 15.30- 17.00 Ink Jet printer – How does it works? (Andrea Adami, Matteo Ghittorelli, Fondazione Bruno Kessler, Italy)	Group 2 - 15.00-17.30 Hands on MEMS (lab visit and experimental lessons) (Viviana Mulloni, Fondazione Bruno Kessler, Italy)
	20.00- 22.00 Workshop Social Dinner	17.30 - 24.00 Conclusion of the School with the visit at the Researchers' Night at MUSE (free visit)