



Sensors
Energy harvesting
wireless Network
& Smart
Objects 2015

PROGRAM

October 14-16, 2015

Centre Microélectronique de Provence, Gardanne, Aix en Provence area (France)

Program

Wednesday, October 14, 2015

10:00am: Registration

10:30am: Workshop opening (ARCSIS and CMP)

10:45am: **Keynote Speaker – Luca Benini, ETHZ and Prof. at the University of Bologna (Italy)** – «Toward energy-neutral computational sensing - challenges and opportunities»

11:30am: **Keynote Speaker – Carles Cané, Centro Nacional de Microelectrónica, IMB-CNM-CSIC (Spain)** – «Gas Sensors and Energy Harvesting Technologies for Smart Systems»

12:15pm: «From existing passive RFID to sensing and energy harvested semi passive» – *Christophe Loussert, Tagsys (France)*

12:40pm: Lunch / Poster Session

Session 1 - Sensing Devices (Chemical) - Part 1

2:15pm: «Ozone sensor based on ZNO nanoparticules deposited by ultrasonic spray» –*Sandrine Bernardini, IM2NP, Aix-Marseille University (France)*

2:40pm: «Selective gas sensor based on screen-printed ZNO nanorods» – *Audrey Chapelle, CNRS/LAAS (France)*

3.05pm: «Innovative and ‘Low-Cost’ Solutions for Real Time Monitoring of Air Quality» – *Alexandre Favard, EcoLogicSense (France)*

Session 2 - Applications - Part 1

3:30pm: «Cloud & sensors: the end of privacy?» – *Stéphane Blondeau, Ionosys (France)*

3:55pm: Break

4:20pm: «The connected deposit: an innovation for Economic & Ecologic challenges» – *Mathieu Oliveri – TERRADONA SAS (France)*

4:45pm: «When sensors and IoT become "Nudge"…» – *Gabriel Della Monica, Smart & Blue (France)*

5:10pm: end of the day

Thursday, October 15, 2015

8:30am: Registration

Session 3 - Sensor networks (Wireless) - Part1

9:00am: «Wireless network dedicated to autonomous devices» – *Nicolas Lesconnec, SIGFOX (France)*

9:25am: «Pattern Reconfigurable Antennas in Wireless Sensor Networks: Challenges and Opportunities» – *Leonardo Lizzi, LEAT, University of Nice-Sophia Antipolis, CNRS (France)*

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9:50am: «Lora & Bouygues Telecom. Deploying an innovative IoT network for new business models and applications» – *Bernardo Cabrera, Bouygues Telecom (France)*

10:15am: «Light-Fidelity and semi-transparent solar cell characterizations» – *Emilie Bialic, Sunpartner Technologies (France)*

10:40am: Break

Session 3 - Sensor networks (Communicating Objects) - Part2

11:05am: «A Simulink based model of a power-efficient wireless temperature sensor» – *Lioua Labrak, Lyon Institute of Nanotechnology (France)*

11:30am: «Optimization of IoT Sensor Systems based on Bluetooth Smart SIP Modules» – *Chris Barratt, Insight SiP (France)*

11:55am: «Smart card security for Internet of Things and People» – *Frédéric Martin, Neowave (France)*

12:20pm: Lunch / Demonstrations

Session 4 - Energy Harvesting and Management

2:15pm: «Augmented RFID tags: capabilities of RFID chips for energy harvesting at different frequencies» – *Gianfranco Andía Vera, LCIS – Grenoble INP (France)*

2:40pm: «Harvesting ambient radio frequency electromagnetic energy» – *Hakim Takhedmit, Laboratoire ESYCOM (France)*

3:05pm: «On the possibility to use time reversed pulse waves for wireless power transfer in an indoor environment» – *Arnaud Bréard, Ecole Centrale de Lyon, Ampere Laboratory (France)*

3:30pm: Break / Poster session

3:55pm: «A system level analysis of thermal harvesting performance for powering of wearable RFID tags» – *Sylvain Blayac, EMSE/CMP (France)*

Session 2 - Applications / Security - Part 2

4:20pm: «Wireless Sensor Network System for Sea Water Quality Monitoring» – *Daniele Caviglia, COSMIC Lab, DITEN, University of Genoa (Italy)*

8:00pm: Conference dinner

Friday, October 16, 2015

8:45am: Registration

9:00am: **Keynote Speaker** – *Stéphanie Lacour, Ecole Polytechnique Fédérale de Lausanne - EPFL (Switzerland)* – «Soft, chronic neural electrodes»

Session 1 - Sensing Devices - Part 2

9:45pm: «Communication and privacy by design challenges around wearable devices» – *Yvan Normend, Gemalto (France)*

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10:10am: «Direct Laser Patterning of metallic temperature sensors on flexible substrate» - *Mariam Dème Dankoco, IM2NP, Aix-Marseille University (France)*

10:35am: Break

11:05am: «Flexible Inkjet-Printed Multi-Electrode Arrays for Recording of Neuromuscular Activity» - *Sébastien Sanaur, EMSE/CMP/BEL (France)*

Session 2 - Applications - Part 3

11:30am: «Smart Sensors and IoT: a broad range of opportunities» - *Gilles Chabanis, Schneider Electric (France)*

12:00pm: Lunch/Poster session

2:00pm: end of the conference



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