

## Thursday 24th October 2013

8.30 am: *Registration – Welcome coffee*

8.45 am: Workshop opening (Luc JEANNEROT, ARCSIS and Stéphane DAUZERE-PERES, Ecole des Mines de Saint-Etienne)

9.00 am: **Keynote speaker**, **Manos TENTZERIS**, **Georgia Tech, USA**  
«**Inkjet-Printed Nanotechnology-enabled RFID, Internet of Things and «Zero-Power» Wireless Nodes**»

### Session 1 - Part 1: Harvesting sources and effective exploitation

**Chairpersons: Nando BASILE (STMicroelectronics), Emmanuel BERGERET (IM2NP, Aix-Marseille University)**

9.40 am: «**The FLEHAP device**»  
**Corrado BORAGNO**, *University of Genova, Italy*

10.05 am: «**Nonlinear MEMS electrostatic Vibration Energy Harvester**»  
**Philippe BASSET**, *ESIEE, France*

10.30 am: «**Smart conditioning interfaces for electrostatic vibration energy harvesting**»  
**Dimitri GALAYKO**, *LIP6 - Université Pierre et Marie Curie - Sorbonne, France*

10.55 am: *Break*

**Session 2 - Part 1: Effective system design for energy storage and management**

**Chairpersons: Hervé BARTHELEMY (IM2NP, University of Toulon), Sylvain BLAYAC (EMSE)**

11.20 am: «**Circuit techniques for PM in energy harvesting with nanoampere consumption**»  
**Dr Vadim IVANOV**, *Texas Instruments, USA*

11.55 am: «**“GreenNet” An End to End IPv6 communication system designed for effective harvested operation**»  
**Jean-Charles GRASSET**, *STMicroelectronics, France*

12.20 pm: «**Thermoelectric Energy Conversion: From Materials to Applications**»  
**Emmanuelle ROUVIERE**, *CEA-Liten, France*

12.45 pm: *Lunch*

**2.00 pm: Demonstration session**

### Session 1 - Part 2: Harvesting sources and effective exploitation

**Chairpersons: Nando BASILE (STMicroelectronics), Emmanuel BERGERET (IM2NP, Aix-Marseille University)**

3.00 pm: «**From ambient mechanical sources to battery-free wireless sensor nodes**»  
**Sébastien BOISSEAU**, *CEA-Leti, France*

3.25 pm: «**Digital printing of thermoelectric devices for autonomous sensor systems**»

Dr. Ingo WIRTH, *Fraunhofer-IFAM, Germany*

3.50 pm: «**RF Energy Harvesting and Transport for Wireless Autonomous Sensor Network Applications: Principles and Requirements**»

Shady KEYROUZ, *IMEC and Holst Center, the Netherlands*

4.15 pm: *Break*

## Session 3 - Part 1: Applications

**Chairpersons: Luc JEANNEROT (ARCSIS), Sylvain BLAYAC (EMSE)**

4.40 pm: «**SCS key technology axis and markets**»

Olivier CHAVRIER, *SCS Cluster, France*

4.55 pm: «**Orange experimentations on M2M sensors energy consumption**»

Pierre DEKYNDT, *Orange, France*

5.20 pm: «**Your home and you: sensors network towards a smart collaborative health monitoring supervision**»

Jean-Yves FOURNIOLS, *LAAS-CNRS/INSA, France*

5.45 pm: «**Energy requirements for ambulatory physiological data acquisition systems**»

Thierry HERVE, *Microvitae, France*

6.10 pm: «**Energy Harvesting market situation & development perspectives**»

Fabrice POULIN, *Infinergia, France*

6.35 pm: *End of the conference*

8.00 pm: *Conference dinner*

## Friday 25th October 2013

8.30 am: *Registration – Welcome coffee*

## Session 3 - Part 2: Applications

**Chairpersons: Luc JEANNEROT (ARCSIS), Nando BASILE (STMicroelectronics)**

9.00 am: «**Real use cases of Energy Harvesting solutions in wireless applications**»

Alessandro GASPARINI, *STMicroelectronics, Italy*

9.25 am: «**VEADISTA - Remote monitoring of vital parameters and smart alerts**»

Mikaël ATES, *Entr'ouvert, France*

9.50 am: «**Power management for Communication and security domains**»

Agnès FRITSCH, *Thales Communications & Security, France*

10.15 am: «**Thermoelectricity as a mean to improve energy efficiency**»

Joël DUFOURCO, *Hotblock Onboard, France*

10.40 am: *Break*

## Session 2 - Part 2: Effective system design for energy storage and management

**Chairpersons: Hervé BARTHELEMY (IM2NP, University of Toulon),  
Cécile BELLEUDY (LEAT, University of Nice Sophia Antipolis)**

11.05 am: «**Supercapacitors based on mixtures of Graphite/Carbon Nanotubes fabricated using dynamic spray-gun deposition technique**»

Paolo BONDAVALLI, *Thales Research and Technology, France*

11.30 am: «Power management techniques for autonomous wireless communicating objects»

Alain PEGATOQUET, *LEAT - University of Nice-Sophia Antipolis, CNRS, France*

11.55 pm: «**ETA Kit: Efficient and Ultra Low Stand-By solutions for energy harvesting solutions**»

Nicola SCANTAMBURLO, *Canova Tech, Italy*

12.20 pm: *Lunch*

1.50 pm: **Demonstration session**

## Session 3 - Part 3: Applications

**Chairpersons: Alain PEGATOQUET (LEAT, University of Nice Sophia Antipolis), Sylvain BLAYAC (EMSE)**

2.50 pm: «**EnOcean: A standard for Interconnected Equipments**»

Emmanuel FRANCOIS, *EnOcean, France*

3.15 pm: «**High end RFID combining RFID and ePaper technology**»

Christophe LOUSSERT, *Tagsys, France*

3.40 pm: «**Energy Harvesting and Computational RFID**»

Nicolas REFFE, *Oridao, France*

4.05 pm: «**Impossible breakthrough in home automation ?**»

Matthieu ABLONDI, *ARVENI, France*

4.30 pm: *End of the conference*

4.40 pm: *Conference closure*