

ZEROPOWER

WORKSHOP

Nanoscale materials and engineering for energy-efficient electronics

26th – 27th October 2011, Cork, Ireland

Wednesday, October 26th

08:30-09:00 *Registration*

09:00-09:10 *Conference opening*, L. Gammaitoni, G. Fagas

09:10-09:50 Markys Cain, *Energy harvesting metrology programme*

09:50-10:30 James Rohan, *Materials and nano architectures for energy storage*

10:30-10:55 Eduard Alarcon, *Co-design of power management circuits and nano-energy harvesters*

10:55-11:20 *Coffee break*

EC Initiatives

11:20-11:30 Francisco Ibanez Gallardo (FET Proactive, Deputy Head of Unit)

11:30-11:40 ZEROPOWER: Luca Gammaitoni

11:40-12:05 NANOPOWER: Lukas Worschech

12:05-12:30 Green Si: Douglas Paul

12:30-12:55 SiNAPS: Giorgos Fagas

13:00-14:00 *Lunch*

14:00-14:40 Gabriel Abadal-Berini, *Zeropower solutions: MEMS energy harvesters*

14:40-15:05 Fritz Falk, *Nanowire solar cells* (Title TBC)

15:05-15:30 Saibal Roy, *Vibrational energy harvesting: Electromagnetic Transduction*

15:30-17:10 *Coffee break - Poster Session*

17:10-17:35 Joachim Knoch, *Tunnel FETs for Low-Power Electronics* (TBC)

17:35-18:00 Bjorn Sothman, *Effect of intrinsic noise on the conductance of open quantum dots*

18:00-19:00 *Round table discussion*

19:00 *Conference: End of day 1*

19:30 *Conference dinner*

Thursday, October 27th

09:00 *Conference: Start of day 2*

09:00-09:40 Adrian Ionescu, *Guardian Angels FET Flagship Pilot*

09:40-10:05 Fabian Hartmann, Title TBA

10:05-10:30 Alan O'Riordan, Title TBA

10:30-10:55 Maher Kayal, *Power and Energy Management in the context of the SiNAPS Project*

10:55-11:20 *Coffee break*

PhD session

11:20-11:40 Francesco Orfei, *Vibration powered wireless sensor and performance comparison*

11:40-12:00 Naser Khosropour, *Electronics Implementation of Power and Energy Management Scheme*

12:00-12:20 Merid Legesse, *Atomic-scale modeling for solar energy materials*

12:20-12:40 Lourdes Ferre-Llin, Title TBA

12:40-13:00 Miquel López-Suárez, *Graphene based energy harvesting*

13:00-14:00 *Lunch*

14:00-14:40 Enrico Sangiorgi, *Disruptive solar energy harvesting*

14:40-15:20 Gabriel Abadal-Berini, *Nanopiezotronics*

15:20-15:45 Helios Vocca, *Energy harvesting with nonlinear piezoelectric microscillators*

15:45-16:00 *Wrap-up and Closing of the event*