



Introducing Dr Luigi Occhipinti, National Outreach Manager

Luigi Occhipinti joined the EPSRC Centre in April 2014 with more than 18 years of experience driving research and innovation in the global semiconductor industry. Luigi has an Electronic Engineering degree and a PhD in Electrical Engineering. He has authored and co-authored over 80 scientific publications and more than 35 patents.

Prior to joining the EPSRC Centre, he was R&D Senior Group Manager and Programs Director at STMicroelectronics, leading research teams and programs across Italy, Europe and Singapore in the field of Flexible and Disposable Electronics, Smart Systems Integration, MEMS-based sensors and diagnostic bio-systems.

Industry Launch Event

The industry launch event for the EPSRC Centre was held on February 3rd, 2014 at the Hilton London Euston Hotel. This was an opportunity for industry partners to learn about the vision for the new EPSRC Centre, its staff and capabilities and to explore how we can work together on collaborative projects. The event was attended by 43 guests from UK companies and from other academic institutions.

Energy Harvesting Workshop

The EPSRC Centre organized a roadmapping workshop on High-Volume Manufacturing of Energy Harvesting Systems on June 4th, 2014 with 23 participants from industry and academia. Energy harvesting systems have a wide range of applications as a means to reduce battery size and lengthen battery life or as a means of eliminating the use of primary batteries altogether. The EPSRC Centre has a vision that printed or part-printed energy harvesting systems can enable the use of very high-volume production processes and so reach price-points that will open up mass markets.

- identify technical barriers holding back the development of printed energy harvesters.
- assist with defining the objectives for a project to address the most important technical barriers (FLEXIPOWER).

The workshop collated the industry needs that will affect the commercial landscape for energy harvesting products and the most promising application domains to meet these needs. Five priority applications were considered in detail and roadmaps. The most important R&D priorities to deliver these applications were identified as

- (i) Printed diode development (RF – UHF)
- (ii) High Q printed antennae (design, materials etc)
- (iii) Printed logic circuits (e.g. power management, comparator/ADC, microprocessor etc)
- (iv) Development of printed sensors
- (v) Printed rechargeable battery
- (vi) Integration (e.g. sensors and electronics with pre-printed PV and other EH systems)
- (vii) Supercapacitors
- (viii) Printed capacitors
- (ix) Fully printed devices