

Workshop and Showcase

Monday 11th February 2013, 11am-3.15pm Imperial College, London

In 2009, the EPSRC funded the three-year project: 'Next-Generation Energy Harvesting Electronics: Holistic Approach', joining together different research areas within ICT, including MEMS and devices, energy harvesting, power electronics, energy-efficiency computation, and design automation.

The consortium is holding an end-of-project workshop to showcase its demonstrators and research findings. Attendees will find out about the project's objectives and achievements, followed by an interactive showcase of the demonstrators and research outputs. The event has a particular emphasis on giving attendees the opportunity to interact with the researchers, academics, industry and the media. In the afternoon, the academics leading the project will give a series of technical seminars discussing various aspects of the research in more depth.

The agenda has been designed to give attendees the flexibility to either drop-in for the project overview and demonstrations (morning session only), or to come for the full day and get the full holistic experience!



Imperial College



Agenda

Holistic Energy Harvesting Electronics: Workshop and Showcase

Location:	Gabor Room (611), Electrical & Electronic Engineering, Imperial College South Kensington Campus, London, SW7 2AZ
Date/Time:	11 February 2013, 11:00 – 15:15
11:00 – 13:00	Morning Session
11:00 – 11:15	Welcome and Project Overview Prof Bashir Al-Hashimi (Project Director, Uni. Southampton)
11:15 – 12:00	Summary of Project Outputs Prof Eric Yeatman (Theme A Leader, Imperial College) Prof Alex Yakovlev (Theme B Leader, Newcastle University) Dr Tom Kazmierski (Theme C Leader, University of Southampton)
12:00 – 13:00	Demonstrations Attendees will be able to see demonstrations of the technology developed through the project (some of which are listed below), view posters and publications published as a result of the project, and talk with researchers. MEMS Variable Reluctance Device Frequency Tuning with Reduced Energy Use Improved Power Extraction from Piezoelectric Harvesters Efficient and Adaptive Power Conversion for EH Systems Self-Timed SRAM for Energy Harvesting Systems Reference free Voltage Sensing Fast Design Space Explorer for EH-Powered Sensor Nodes Case Study: Vibration-Powered Engine Monitoring
13:00 – 13:30	Lunch
13:30 – 15:15	Afternoon Session
13:30 – 13:50	Technical Seminar 1: Building a Holistic System Demonstrator Dr Alex Weddell (University of Southampton)
13:50 – 14:10	Technical Seminar 2: Adaptive Electronics for EH Systems Dr Bernard Stark (University of Bristol)
14:10 – 14:30	Technical Seminar 3: Accelerating EH Simulation & Design Exploration Dr Tom Kazmierski (University of Southampton)
14:30 – 14:50	Technical Seminar 4: Energy Modulated Computing Prof Alex Yakovlev (Newcastle University)
14:50 – 15:10	Technical Seminar 5: Adaptive and Tunable Microgenerators Dr Paul Mitcheson (Imperial College)
15:10 – 15:15	Close
	Designation is force but along our limited

Registration is free, but places are limited

To reserve a place, please email Geoff Merrett (gvm@ecs.soton.ac.uk)