

# Energy Harvesting

An EPSRC Funded Network  
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## **1<sup>st</sup> Energy Harvesting Research Theme Workshop**

9 November 2010

Imperial College London

This workshop is designed to help facilitate the definition of a number of new research challenges and to catalyse the creation of multidisciplinary teams to address them. The agenda includes short presentations to get delegates thinking about the challenges of energy harvesting both outside and inside the human body. The facilitated workshop sessions will then debate the specific research challenges to be addressed and the expertise required.

### **Agenda**

- 9.30 Registration & coffee
- 10.00 Introduction
- 10.05 State of the Art in Human Powering of Devices  
*Prof Markys Cain, NPL*

### **Session 1: Aspects of Human Powering of Devices Outside of the Body**

- 10.35 Energy Requirements for Prosthetic and Orthotic Devices in Research and Clinical Applications  
*Dr Arjan Buis, University of Strathclyde*
- 10.50 Energy Harvesting in Prosthetic Legs using Piezoelectric Materials  
*Dr Kesorn Pechrach Weaver, Ronsek Ltd.*
- 11.05 Q&A and General Discussion
- 11.25 Coffee break
- 11.50 Facilitated Workshop
- 13.00 Lunch and networking

### **Session 2: Aspects of Human Powering of Devices Inside of the Body**

- 14.00 Power from a Heartbeat  
*Tracy Wotherspoon, Zarlink Semiconductor*
- 14.15 Application of Human Power for Pervasive Sensing in Sports and Healthcare  
*Dr Benny Lo, Imperial College London*
- 14.30 Q&A and General Discussion
- 14.50 Coffee break
- 15.05 Facilitated Workshop
- 16.10 Wrap up and Next Steps
- 16.15 Close

The workshop is by *invitation only* to ensure a high quality of interaction. To apply for an invitation, please email [workshop@eh-network.org](mailto:workshop@eh-network.org) briefly saying what you would be able to bring to the discussion.