

Energy Harvesting

An EPSRC Funded Network

www.eh-network.org

EPSRC

Engineering and Physical Sciences
Research Council

Energy Harvesting 2015

Prof Steve Beeby
University of Southampton
19th March 2015



KTN

the
Knowledge Transfer
Network

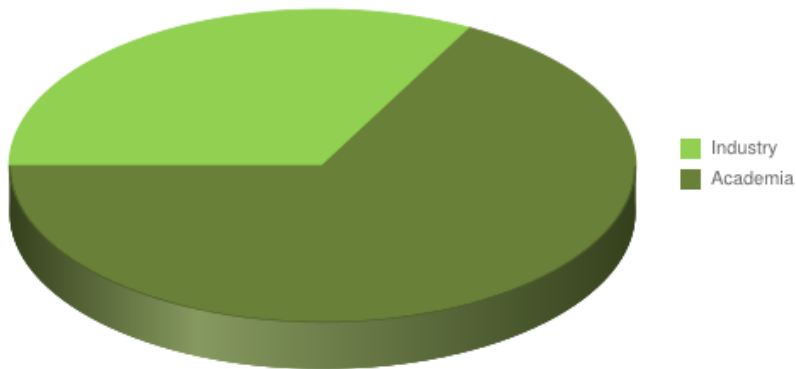
Network Summary

- Started 01 March 2010, funded by EPSRC for 3 years. Event supported by KTN Energy Harvesting Special Interest Group.
- Network webpage maintained with resources such as workshop reports (Human Power, Structural Monitoring, MEMS), and the EH-Network Data repository.
- Managed on behalf of the community by Southampton University (Steve Beeby, Geoff Merrett, Kai Yang) and assisted by Simon Aliwell.
- Network will continue – EH 2016 will be held on 23rd March 2016.

Membership

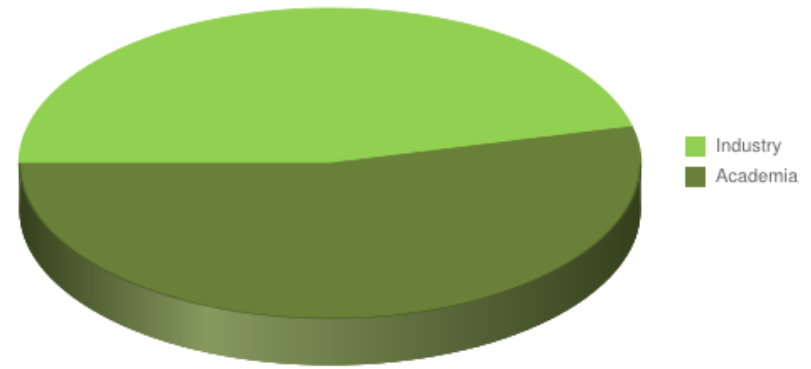
- Open to all with an interest in energy harvesting
- A total of 478 people from 396 companies and institutions

Registered Members



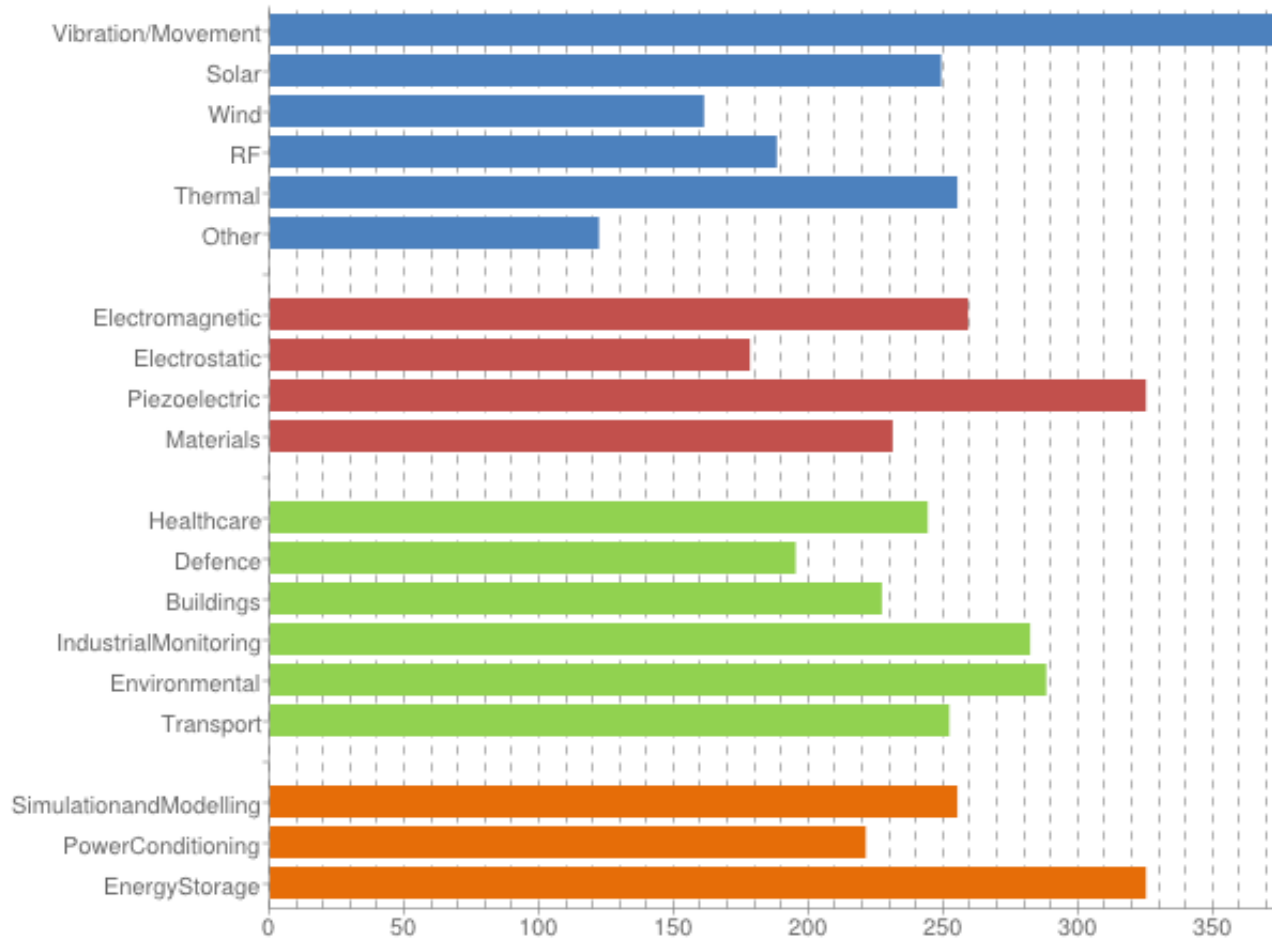
*157 industrial members and
321 academic members*

Registered Companies/Institutions



*183 industrial companies and 213
academic institutions*

Member interests



9.15	Arrival, Registration and Coffee
09.45	Welcome and Introduction <i>Steve Beeby, University of Southampton</i>
09.50	Keynote: Printed thermoelectric, piezoelectric and pyroelectric energy harvesting devices <i>Rob Dorey, University of Surrey</i>
10.20	Remote, self powered sensing and transmission of data on water pressure and flow rate <i>Geoff Haswell, Piezotag Ltd</i>
10.40	Coffee Break, Exhibition and Networking
11.10	Thermoelectric energy harvester with integrated, robust and autonomous sensing system for harsh and hazardous environments <i>Kevin Simpson, European Thermodynamics</i>
11.30	Feasibility of MEMS vibration energy harvesting for high temperature sensing in aero-engine and down-well applications <i>Steve Riches, GE Aviation</i>
11:50	Innovate UK support for Energy Harvesting <i>Myrddin Jones, Innovate UK</i>
12.00	'Elevator Pitches' from Exhibiting Companies: PolySolar, Smart Component Technology, Microsemi, Gas Sensing Solutions, Thermoelectric Conversion Systems
12.20	Buffet Lunch, Exhibition and Poster Session <i>Exhibition tables from GE Aviation (+ Cambridge University), Perpetuum (+ Southampton University), European Thermodynamics (+ Glasgow University), PolySolar (+ Warwick University), Smart Component Tech (+ Network Rail), Microsemi (+ Cardiff University), Gas Sensing Solutions (+ Solar Press), Piezotag (+ Severn Trent & Coventry University)</i>

13.40	Keynote: Broadband vibration energy harvesting: frequency tuning and bistable solutions <i>Dibin Zhu, University of Southampton</i>
14.10	A new high performance light energy harvester for indoor applications <i>Mathieu Bellanger, Sharp Laboratories of Europe</i>
14.30	Experimental study of RF energy transfer system in indoor environment <i>Salah-Eddine Adami, University of Bristol</i>
14.50	Best Poster Award, Coffee Break, Exhibition and Networking
15.20	Powerweave - development of textiles for electrical energy generation and storage <i>Ian Jones, TWI Ltd</i>
15.40	Improvements in power efficiency and energy storage for energy harvesters <i>Roy Freeland, Perpetuum Ltd</i>
16.00	Powering wireless sensors for rotorcraft HUMS <i>Steve Burrow, University of Bristol</i>
16:20	"ICT-Energy" initiatives for the energy harvesting community <i>Francesco Orfei, NiPS Laboratory, University of Perugia</i>
16.30	End of Event

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