New website hosts wealth of data on energy efficient buildings

The Digital Catapult has created the Building Data Exchange to stimulate innovation and help constructors build more efficient properties. “A wealth of information on best practice and pitfalls in construction of modern, energy efficient homes, offices, shops and public buildings is to be shared through a new Building Data Exchange.”

The Building Data Exchange has been created by the Digital Catapult centre to allow designers, developers and constructors to take advantage of the wealth of information gathered over the last 6 years by Innovate UK’s £8 million Buildings Performance Evaluation programme. Innovate UK’s Building Performance Evaluation programme (BPE) was a 4 year study into how real-world buildings perform https://connect.innovateuk.org/web/building-performance-evaluation/

The opening of the BDE on 5 February coincides with the publication of 2 reports that analyse data from Innovate UK’s Building Performance Evaluation programme. The reports highlight that more needs to be done to ensure modern, energy efficient properties are meeting their targets on energy use and efficiency.

To access the Building Data Exchange see https://buildingdataexchange.org.uk/

If you are interested in energy efficient buildings, you might want to get in touch. Research in the University includes work within the University’s Centre of Excellence in Sustainable Building Design http://www.hw.ac.uk/schools/energy-geoscience-infrastructure-society/research/cesbd.htm some of which was covered in earlier Energy Academy Newsletters http://www.energy.hw.ac.uk/images/Week_31.pdf including the work on Life Cycle assessment from Dr Gillian Menzies and colleagues http://www.hw.ac.uk/schools/energy-geoscience-infrastructure-society/staff-directory/gillian-menzies.htm. You might also be interested in the work of Dr Kate Beckmann and ClimateXChange on energy demand for heating http://www.climatexchange.org.uk/files/7214/5408/5051/Energy_Demand_for_Heating.pdf

Opportunities also exist for early-career researchers interested in developing a Life Cycle Carbon Quantification approach for Buildings http://www.hw.ac.uk/schools/energy-geoscience-infrastructure-society/research/postgraduate/opportunities/developing-a-life-cycle-carbon.htm

Are you a newly qualified PhD marine biologist with an interest in engineering? @icitOrkney has an opportunity for a teaching fellow in marine science to develop new MSc course materials and support research on the capture, analysis and presentation of marine environmental data. Interested? http://www.hw.ac.uk/about/careers/jobs/job_SVJD MtMwNQ.htm
BioEnergy

Common Theme Group Launch Event: Bioenergy
Tuesday 8th March, 2016
Technology Innovation Centre, 99 George Street, Glasgow, G1 1RD

This meeting organized by the Energy Technology Partnership will be chaired by Professor Paul Mitchell, the theme coordinator, and will provide a unique opportunity for Academics and SMEs from all aspects of the Bioenergy sector to come together to share ideas and discuss the potential for collaborations moving forward.

The format of the meeting is designed to provide a forum for all attendees, both industrial SMEs and academics, to discuss their specific research interests and technology goals. The meeting will be broken up into three main strands.

The morning session will give a brief introduction about the ETP which will then be followed by a session providing SMEs an opportunity to discuss their own companies in more detail and any potential research interests that they may wish to explore.

Some case studies will be given to show exactly how the ETP interacts with SMEs and Academia and the success of the programme to date. The afternoon will then provide scope for Academics to discuss their research interests in more detail and how this may link with industry. Finally, a session at the end will cover all funding mechanisms available for collaboration, ending with examples of successful applications and time set aside for any relevant 1-1 networking.

More information and registration: http://www.etp-scotland.ac.uk/NewsandEvents/Events/ETPBioenergyWorkingGroupWorkshop.asp

FLEDGE Grant Fund
Applications Close 26th February

The Fledge Grant fund initiative is now open for applications from Heriot-Watt University researchers working in the Schools of EGIS, EPS, MACS and SML who wish to do small collaborative research projects involving cross-School or Institute research and/or r&d in the key areas of research recognized by the Energy Academy. Applications can include external parties such as other universities, HEIs and SMEs but in such cases, the interview panel will look for evidence of matching contributions either in cash or in-kind (projects will be reviewed on a case by case basis).

New Rules for Applicants:
Contact Energy@hw.ac.uk

To obtain an application form and guidelines for what is in scope and what is not please send an e-mail to energy@hw.ac.uk. The closing date for applications is 26th February 2016

Energy Conversion and Storage
Energy Storage in a Changing Climate
22nd March, 2016
Purdie building, University of St Andrew

This event run by the Energy Technology Partnership (ETP) and the Scottish Hydrogen and Fuel Cell Association (SHFCA) will consider the role for Energy Storage and how this may also support the wider uptake of low carbon heat and sustainable transport. In Scotland, the Government has set out its ambition that by 2020 Scotland will generate as much renewable electricity as it uses, on an annual basis, increase the use of renewable and low-carbon heat to 11% of total heat demand, and reduce transport emissions. Scotland has made good progress in meeting the interim electricity targets, but the 2020 target is looking increasingly challenging. We have a wide range of speakers from academia and industry to address the progress being made to address this challenge.

More information and registration: http://www.etp-scotland.ac.uk/NewsandEvents/Events/ETPSHFCAMeeting2016.aspx

Can the Energy Academy Help You?
What we can offer
• Modelling
• Optimisation of solar-thermal systems and integration with storage;
• Forecasting and optimisation of renewable energy generation and demand;
• Energy-efficiency in housing;
• New strategies for energy eg battery management;
• Sensor development and application for assets management, energy sensing and control and user interface design;
• Machine learning to id patterns of behaviour eg EV charging;
• Acceleration of marine renewables development;
• Energy capture (materials development eg solar PV and energy from waste H2O);
• Energy economics; Cost vs Benefit
• Logistics and business processes

Who we are looking for includes
• SMEs seeking to build skill-sets through collaboration eg KTP
• SMEs looking for support for technical innovation;
• SMEs looking to test renewable energy devices (small wave tank, Solar PV site, facilities for testing sensor development)
• SMEs, universities and organisations looking to build consortia for research and r&d

Contact: Energy@hw.ac.uk or call 0131 451 3881
The Centre for Energy Economics Research and Policy (CEERP) is a new and growing academic research group that is a result of collaboration and partnership between Heriot-Watt University and BP plc. The Centre has experience in energy markets, macroeconomic analysis, empirical modelling and forecasting, and is continuously expanding its expertise through involvement in academic and industrial research projects.

CEERP contributes to the annual BP Statistical Review of World Energy, now widely recognized as a key source of data on energy markets, and the BP Energy Outlook 2035. Alongside the Energy Academy, CEERP is a key point of support and collaboration between the Schools of Heriot-Watt University and maintains a working paper series through which it is able to share its research outputs. CEERP also works with academia and industry.

CEERP is hosting an event on March 15th. The event has two parts – a workshop and a lecture. The lecture will signify the official Scottish launch event of BP’s Energy Outlook publication, and will be given by BP’s Chief Economist, Spencer Dale. Before the lecture, there will be presentations on the external cost of renewable energy (Nicholas Hanley, St Andrews University) and behavioural and energy economics (Mirko Moro, University of Stirling).

Places are limited so to book your place please visit https://www.eventbrite.co.uk/e/ceerp-energy-economics-workshop-tickets-21384617968

For more information on the event, see the ‘Centre’ website at http://ceerp.hw.ac.uk/. To work with CEERP, contact Ersoy, Erkal <E.Ersoy@hw.ac.uk>.

The Energy Academy web-site address is www.energy.hw.ac.uk.

The site was built using Joomla. We are looking for a Heriot-Watt student who is looking for a small project to help us develop the site.

We expect the right person will have expertise in web-site design and that he/she will transfer the knowhow to us to help us manage the site independently.

If you are an independent web-site designer, this isn’t a project for you; we don’t have the budget to contract with you (but please do send us your contact details. You never know?)

If you are interested please call Patrick on 0131 451 3881.

---

**Electrochemical Energy Conversion and Storage: Solar, Batteries, Capacitors and OLEDs Workshop**

17th March 2016 from 09:00 – 16:00
Boardroom (5.21), Edinburgh College of Art, Evolution House, 78 West Port, Edinburgh, EH1 2LE

This workshop, is a collaboration between the Energy Technology Partnership, the University of Edinburgh, SISER and the Energy Academy and is aimed at creating new opportunities and as a platform to stimulate new projects and partnerships for joint working between academia and industry.

The workshop will focus on several priority opportunities:

- Identifying leads to develop solar materials in Scotland (hybrid, organic, dye-sensitised, perovskite PV, thin film etc.);
- Building strong collaborative relationships; and
- Identifying appropriate funding calls

To Register please type the following url into your Browser: [http://www.etp-scotland.ac.uk/NewsandEvents/Events/SolarBatteriesCapacitorsandOLEDsWorkshop/SolarWorkshop17March2016Registration.aspx](http://www.etp-scotland.ac.uk/NewsandEvents/Events/SolarBatteriesCapacitorsandOLEDsWorkshop/SolarWorkshop17March2016Registration.aspx)

**Provisional Programme (Times and Subject Material subject to Change)**

09:00 - 09:30 Registration, Coffee & Networking;
09:30 - 09:45 Introduction and aspirations - Professor Neil Robertson, University of Edinburgh;
09:45 - 10:45 Academic and Industrial personal Introductions to research themes – All participants;
10:45 - 11:15 Coffee and Networking;
11:15 - 12:15 Academic and Industrial personal Introductions to research themes (continued) – All participants;
12:15 - 13:30 Networking Lunch;
13:30 - 14:00 Key Funding Initiatives;
14:00 - 15:30 Networking and Proposal Building - Dr Patrick McCarthy, Energy Academy, Heriot-Watt University and Stephen-Mark-Williams, Energy Technology Partnership; 15:30 Summary Professor Neil Robertson, University of Edinburgh.

---

**Textiles Future Forum Innovation Competition 2016**

Following the success of the Innovation Challenge Competition last year, Textiles Future Forum is running a second Innovation Challenge Competition to increase opportunities for business and academia to participate and bid for funding from the TFF Challenge Fund.

For more details on the competition please visit - [http://www.stla.uk.com/textiles-scotland/innovation/innovationcompetition/](http://www.stla.uk.com/textiles-scotland/innovation/innovationcompetition/)

The TFF Award is a £50,000 Grant and is intended to stimulate innovation and, for example:

- The adoption of new technologies and or processes
- Entry into new markets;
- Efficiency in processes and manufacturing

For more information contact:
Tel: Joe Pacitti +44 131 451 8425 / Gillian Wishart +44 131 451 3224
Next steps for renewable energy in Scotland - funding, development and policy priorities
Scotland Policy Conferences Keynote Seminar
Morning, 26th May, Edinburgh

Simon Coote, Head of Energy Industries and Innovation, The Scottish Government; Kersti Berge, Partner, Networks and Head of Ofgem in Scotland; Paul Cooley, Director of Renewables, SSE; Dr Nina Skorupska, Chief Executive, Renewable Energy Association; Professor Karen Turner, Director, Centre for Energy Policy, University of Strathclyde; Felix Wight, Development Manager, Community Energy Scotland and Dr Steve Wyatt, Offshore Renewable Energy Catapult and Jim Brown, Energy Skills Partnership

To Book Online:

Please note that there is a charge for registration

Student Advertising Awards 2016
Reduce Scotland’s Carbon Footprint
Deadline: 31 March 2016 at 12:00

This is a brand new competition for students looking to kick-start their career in advertising in Scotland. The challenge is to answer a live brief (set by the Scottish Government Greener Scotland team) to get the population of Scotland working together to reduce Scotland’s carbon footprint. To see the brief, visit http://www.ipa.co.uk/document/student-awards-brief.

You can choose one of the following three categories to show your ideas:

1. Creativity: A communications campaign that triggers a change in attitudes. A powerful creative idea that can convince people that change is vital.

2. Media Strategy: A strategic and implementation approach to behaviour change. What media types and specific platforms would you use to persuade people to change, and why?

3. Technology: A digital tool that encourages people to change. An app, a website or a digital game that can encourage trial or embed a habit.

The Deliverable is a two minute film that tells us how this idea will convert apathy into enthusiasm and get the population of Scotland working together to reduce our carbon footprint. The film can take any format (a slide show, a video of a presentation, live action film, animation etc). All entries must be submitted online through ipa.co.uk/IPAScotAwards.

The prizes include £1000 in cash; a paid work placement at an IPA agency in Scotland (Leith Agency, The Union, The Gate, Dentsu Aegis, Material, Frame or Mediacom Edinburgh); and support from industry mentors.

Who can enter? Any student enrolled on a full-time, or part-time course in their final year of undergraduate or postgraduate study, or college equivalent, at a university or college in Scotland in 2016.

For more information visit the IPA website http://www.ipa.co.uk/page/ipa-scotland-student-advertising-awards#.VsWZx7eyrIV or contact sara@ipa.co.uk.

Good luck