

KE Scotland 2012

Welcome to KE Scotland 2012!

Researchers and Knowledge Transfer

Stimulating economic development, enhancing quality of life, contributing to cultural enrichment - all are potential benefits of "Knowledge Exchange", the two-way flow of ideas, expertise and people between the research base and wider users in Society. For researchers — especially early stage researchers — KE should provide an opportunity for them to both develop new skills and collaborations, and to capitalise on their research knowledge and findings in different sectors beyond academia. But how can researchers get involved with KE and how should we best be developing KE policy, practice and impact in Scotland?

KE Scotland – Policy, Practice, Impact

This was the fourth annual conference on KE designed specifically for Scotland's research community to address these and other research-KE related questions. It offers a forum to early stage researchers, research managers, KE practitioners, policy makers and research funders to come together to discuss the scope and potential of KE in Scotland, and be inspired about the skills researchers can develop and the impact they can have through the practice of KE. It took place at Heriot-Watt University, Edinburgh on **Friday 5th October 2012**.

Programme

In addition to a wide range of expert speakers from key organisations involved with developing KE policy in Scotland and the rest of the UK — including the Scottish Funding Council, the Scottish Government and BIS (Department for Business, Innovation and Skills) — this year's conference featured a range of expert speakers from different academic fields and business and policy sectors on facilitation of KE. As usual, organisations offering funding and practical opportunities for researchers to engage in KE featured throughout the programme and the exhibition.

Funders



Generous financial sponsorship was received from the Scottish Funding Council, Vitae Scotland and Northern Ireland Hub, the University of Edinburgh and Heriot-Watt University.

Programme

08.30-10.00	<i>Registration and Coffee</i>
10.00	Conference Starts
10.00-11.15	Plenary
11.15-12.15	Parallel Session 1
12.15-13.15	Lunch and Exhibition
13.15-14.00	Plenary
14.00-15.00	Parallel Session 2
15.00-15.45	Coffee and Exhibition
15.45-16.45	Parallel Session 3
16.45-17.45	Plenary
17.45	Conference Ends
17.45-19.00	<i>Drinks Reception</i>

Parallel Session 1

Health 1: Better Data, Better Health

Chair - Mr Willy Roe

Speaker - [Dr Mark Parsons](#)

Speaker - Prof Irene McAra-McWilliam

Wealth 1: Pathways to Business Engagement

Chair - [Mrs Gillian McFadzean](#)

Speaker - [Dr Thomas Slight](#)

Speaker - [Dr Marcus Wood](#)

Speaker - [Dr David Clark](#)

Environment 1: Utilising our Marine Environment

Chair - Dr Stuart Fancey

Speaker - [Dr Mark James](#)

Speaker - [Prof Trevor Hoey](#)

Speaker - Dr Linda Rosborough

Culture 1: KE in the Creative Arts

Chair - Prof Graham Caie

Speaker - [Prof Georgina Follet](#)

Speaker - [Prof Chris Breward](#)

Parallel Session 2

Health 2: Healthy Ageing

Chair - Dr Douglas Greig

Speaker - [Dr Robin Morton](#)

Speaker - [Prof Martijn Steultjens](#)

Speaker - [Dr Eimear Dolan](#)

Wealth 2: Open Innovation

Chair - Dr Siobhan Jordan

Speaker - [Mr Ashley Baker](#)

Speaker - Mr Richard Bass

Speaker - [Mr Duncan Bury](#)

Environment 2: Environmental KE Impacts

Chair - [Dr Graeme Reid](#)

Speaker - [Prof Ian Boyd](#)

Speaker - [Prof Iain Gordon](#)

Speaker - Dr Keith Westhead

Culture 2: Arts-Science Interface

Chair - Howie Firth

Speaker - [Prof Elisabeth Innes](#)

Speaker - [Dr Christine Knight](#)

Speaker - [Dr Lorraine Kerr](#)

Parallel Session 3

Health 3: Research - Healthcare Policies

Chair - [Prof Cherry Wainwright](#)

Speaker - [Prof Charlotte Clarke](#)

Speaker - [Dr Audrey Stephen](#)

Wealth 3: Academic Entrepreneurs

Chair - Prof Ian Underwood

Speaker - Angela Mathis

Speaker - [Dr John Hand](#)

Speaker - Dr Colin Adams

Environment 3: Water Resources

Chair - [Prof Gareth Pender](#)

Speaker - [Prof Bill Sloan](#)

Speaker - [Dr Lynne Jack](#)

Speaker - [Sue Morris](#)

Culture 3: Fashion and Textiles

Chair - [Prof Alison Harley](#)

Speaker - [Kirsty Scott](#)

Speaker - [Linsey Dickson](#)

Presenters

Host Institution Chairs

Professor Alan Miller, FRSE

Deputy Principal, Research and Knowledge Exchange, Heriot-Watt University

Professor Nigel Brown, FRSE

Former Senior Vice Principal, Planning, Resources and Research Policy, University of Edinburgh

Key Note Chair

Quentin Cooper

BBC Radio 4, The Material World

KE Scotland 2012 - Plenary Speakers

Mr Mark Batho

Chief Executive, Scottish Funding Council

Dr Eleanor Mitchell

Commercialisation Director, Scottish Enterprise

Dr Graeme Reid

Head of Research Funding, Department of Business, Innovation and Skills, UK Government

Dr Malcolm Skingle CBE

Director, Academic Liaison, GlaxoSmithKline

Dr Rebekah Widdowfield

Chief Researcher and Head of Rural and Environment Science and Analytical Services, Scottish Government

KE Scotland 2012 - Parallel Session Speakers

Ashley Baker

Head of Research & Development, Macphie of Glenbervie Ltd

Prof Iain Boyd

Chief Scientific Advisor, DEFRA

Dr Deborah Buckley-Golder

Head of Knowledge Exchange, Technology Strategy Board

Dr Charlotte Clark

Head, School of Health and Social Science, University of Edinburgh

Dr Eimer Dolan

School of Health Sciences, Robert Gordon University

Prof Georgina Follet

Deputy Principal for Knowledge Exchange in the Creative Arts, University of Dundee

Prof Iain Gordon

Chief Executive Officer, The James Hutton Institute

Dr John Hand

Integrator, Impact, EPSRC

Prof Alison Harley

Head of School of Textiles and Design, Heriot-Watt University

Prof Trevor Hoey

Director, SAGES

Prof Lee Innes

Principal Scientist and Director of Communications, Moredun Research Institute

Dr Lynn Jack

Director of Research, School of Built Environment, Heriot-Watt University

Dr Mark James

Operations Manager, MASTS

Dr Scott Johnstone

Scottish Life Sciences Association

Dr Wendy Kenyon

Senior Research Scientist, The James Hutton Institute
Dr Lorraine Kerr

SynthSys ♦ Synthetic and Systems Biology, University of Edinburgh

Dr Christine Knight

ESRC Genomics Policy and Research Forum, University of Edinburgh

Dr Mark Parsons

Executive Director, EPCC, University of Edinburgh

Prof Gareth Pender

FRSE, Professor of Environmental Engineering, Heriot-Watt University

Dr Linda Rosborough

Director of Marine Scotland, Scottish Government

Prof Bill Sloan

Professor of Environmental Engineering, University of Glasgow

Dr Audrey Stephen

Institute of Health and Welfare Research, Robert Gordon University

Prof Martijn Steultjens

Professor of Musculoskeletal Health, Institute of Applied Health Research, Glasgow Caledonian University

Prof Cherry Wainwright

Director, Institute for Health & Welfare Research The Robert Gordon University, Aberdeen

Exhibitors

- Converge
- CMAC (*Centre for Innovative Manufacturing in Continuous Manufacturing and Crystallisation*)
- Interface - the Knowledge Connection for business
- The James Hutton Institute
- Knowledge Transfer Partnerships
- Moredun Research Institute
- Royal Society of Edinburgh
- Scottish Crucible
- Scottish Enterprise
- Scottish Funding Council
- Vitae

Impact Poster competition

Run in association with the KE Scotland Conference, early-stage researchers (PhD students and Postdoctoral Fellows) were encouraged to consider what could be the potential impact of their research on wider society by preparing a poster for display at the conference. The posters were intended to describe how their research could be utilised by different user groups via Knowledge Exchange. The top 20 posters of all the proposals submitted were selected to be displayed at the conference and considered by the judging panel for the Impact Poster Prize. The winning poster was the one which most convincingly explained the potential wider impact of the applicant's research and how that impact could be achieved through the different processes of knowledge exchange.

Impact Posters selected to be displayed at the KE Scotland Conference:

HEALTH category

- **Dr Mar Carmena, University of Edinburgh:** ["Visualisation tool for chemotherapy"](#)
- **Dr Elad Katz, University of Edinburgh:** ["3D culture system/cancer"](#)
- **Mr Antonis Vlassopoulos, Heriot-Watt University:** ["Antioxidant rich food products"](#)

WEALTH category

- **Mr Saurav Goel, Heriot-Watt University:** ["Diamond turning of silicon carbide"](#)
- **Mr Brian Miller, University of Edinburgh:** ["Microfluidics"](#)
- **Miss Clare Moran, University of Edinburgh:** ["Scottish resilience"](#)
- **Mrs Katarzyna Przybycien, Heriot-Watt University:** ["KE channels between researchers and practitioners"](#)
- **Mr Julio Traub, Heriot-Watt University:** ["Sustainability in whiskey and aquaculture industries"](#)

ENVIRONMENT category

- **Mr SM Ashekuzzaman, Glasgow Caledonian University:** ["Absorbent-based technology for water treatment"](#)
- **Miss Jahleh Bahri-Esfahani, James Hutton Institute - Dundee:** ["Enhancing benefits of Phosphorus fertilisers"](#)
- **Mr Euan Bowditch, UHI - Inverness College:** ["Ecosystem approach to management practices"](#)
- **Dr Yolande Fernandez-Diez, Heriot-Watt University:** ["CO2 photoremediation"](#)
- **Ms Melanie van Niekerk, Stirling University:** ["Carbon export from afforested peatland"](#)
- **Ndenyangnde Ripiye, University of Abertay, Dundee:** ["River catchments"](#)
- **Mr Seyed Mohammad Shariatipour, Heriot-Watt University:** ["CO2 storage in geological formations"](#)
- **Mr Junjie Shen, Heriot-Watt University:** ["Water treatment"](#)
- **Dr Laura Wicks, Heriot-Watt University:** ["Ocean acidification threat on cold-water corals"](#)

CULTURE category

- **Dr Emily Hastings, James Hutton Institute, Aberdeen:** ["Evaluating science-policy-practice interfaces \(CREW\)"](#)
- **Dr Lilia Gomez-Flores, Dundee University:** ["Identity management in future"](#)
- **Dr Sarah Martin, University of Edinburgh:** ["Biophysics and molecular biology outreach"](#)

The Impact Poster Competition 2012 overall winner was **Mr Julio Traub, Heriot-Watt University:** ["Sustainability in whiskey and aquaculture industries"](#). He won the top prize of £2000 to help him further develop his research.

Training Day

The 2012 KE Scotland Conference was preceded by a specially arranged KE Training Day for early stage researchers based in Scotland.

Hosted by science writer and broadcaster, Vivienne Parry (BBC Radio 4, Tomorrow's World, The Times, The Guardian etc), the KE Training Day offered up to 150 participants a selection of introductory KE workshops in areas of **Policy, Business and Outreach**, all delivered by experts in these fields. There were discussions on demonstrating research impact, and the opportunity to meet and network with early stage researchers from across the Scottish Universities over lunch and refreshments.

Each participant was able to select one KE Training Workshop on either Policy, Business or Outreach in the morning and one in the afternoon which will be offered on a first-come, first-served basis. The workshops were all 2 hours long and intended as an introduction to different aspects of KE.

Audience

Early stage researchers (PhD students and Postdoctoral Research staff) based in Scotland were the primary audience, but some places were made available to interested junior academic staff.

KE Conference 2012 Training Workshops

Policy
<p>A1: Getting Research into Government Policy Dr Cathy Sharp, Research for Real Ms Helen Fogarty, Scottish Government, Directorate for Cabinet and Strategy</p> <p>B1: Developing your Research Impact - the KE "Health Check" Ms Kate Beckman and Ms Katarzyna Przybycien, Adaptation Research and the Sustainable Urban Environment Programme</p>
Business
<p>A2: How to Commercialise your Research Dr Patrick Andrews, Managing Director, Break-Step Productions Ltd Dr Olga Kozlova, Converge Challenge</p> <p>B2: Working in Industry - Careers in R&D and Management Prof Alastair Florence, CMAC</p>
Outreach
<p>A3: Reaching a Wider Audience - Pathways to Public Engagement Dr Heather Rae and colleagues Beltane, Beacon of Public Engagement</p> <p>B3: Connecting Research with People Ms Helen Richens, British Science Association</p>

SFC Consultation Event - Friday, 5th October 2012

Development of a single 'knowledge exchange office'

The Scottish Funding Council invited comments on proposals for the 'development of a single knowledge exchange office for Scotland'. Comments were being invited through a formal public consultation which ran from 3 September to 25 October 2012. Full details on the background to the proposals and the questions being asked are available from the consultation document at www.sfc.ac.uk.

This one hour session, hosted by the Scottish Funding Council prior to the start of the KE Scotland Conference, was an opportunity to discuss and comment on the proposals for the development of a single knowledge exchange office.

The session was to open to any interested colleagues from the university, business, policy or other sectors.