



Welcome

Publication of this, the first ISSTI newsletter of 2009, has been delayed so that we could bring the exciting news that a new chair on Innovation in Life Sciences has been created by the University of Edinburgh (see page 3). The new appointment will strengthen research leadership and capacity around the ESRC Centre for Social and Economic Research on Innovation in Genomics (Innogen) and points to support for Innogen and ISSTI, not only within the College of Humanities and Social Sciences, but also from Science & Engineering and Medicine & Veterinary Medicine.

2009 started well for ISSTI with the news that ISSTI and Sociology had together performed extremely well in the 2008 Research Assessment Exercise - with 55% of our research activity rated as world leading or internationally excellent - placing us top in Scotland and equal 6th in the UK rankings (see page 3).

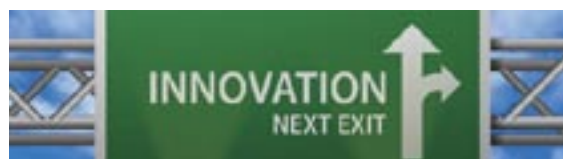
This newsletter brings news of a wide range of workshops that we have organised on topics ranging from Darwin's Edinburgh to risk management of emerging technologies and China's standardisation and innovation efforts in Information and Communications Technologies. We announce new projects in relation to the role of industry analysts and in e-science as well as a forthcoming seminar by Michael Cusumano on May 21st.

The use and relevance of Web 2.0 resources for researchers

See page 2 for full report

The University of Edinburgh has advertised a new Chair in Innovation in the Life Sciences

See page 3



ISSTI and Sociology research rated top in Scotland and equal 6th in UK Research Assessment Exercise

See page 3 for full report

Donald MacKenzie: Material Markets: How Economic Agents are Constructed

See page 4 for full report

Contents

Welcome/Highlights	1	Events	6	New Publications	11
Research News	2	Event Reports	7	Staff and Visitors	12

Research News

The use and relevance of Web 2.0 resources for researchers

Robin Williams and James Stewart have secured another award from the Researcher Information Network, to examine *The Use and Relevance of Web 2.0 Resources for Researchers*.

Led by Rob Procter, Director of the National Centre for E-Social Science at the University of Manchester, the project will investigate the extent to which Web 2.0 tools represent useful means of communicating, sharing and disseminating research ideas and outputs for researchers across different disciplines and explore the



implications for the future of scholarly communications.

This complements our other ongoing study sponsored by RIN: *Case Studies in Life Sciences: Understanding Researchers' Information Needs and Uses* (see ISSTI Newsletter No. 12). RIN was set up by the Higher Education funding bodies, the National Libraries, and the Research Councils to undertake evidence-based research into information and data issues that relate to professional researchers and to develop policy, guidance and advocacy on that basis.

China EU Information Technology Standards Research Partnership raises the debate.

The China EU Information Technology Standards Research Partnership held an extremely successful networking session organised as part of ICT2008, the European Commission's bi-annual ICT conference (Lyon, France, 26th November 2008). It featured keynotes from Alison Birkett from the Delegation of the European Commission to China and Philippe Cousin of the European Telecommunications Standards Institute (ETSI). With more than 40 participants from all over the world, the session raised many important issues relating to standardisation and innovation in China, Europe and beyond. The main discussions are summarised in the Research Partnership's second newsletter - just out - copies can be downloaded at WWW.CHINA-EU-STANDARDS.ORG

A further workshop has been organised in China (Beijing 20th April 2009) on 'Common ICT Standards or Divided Markets: the EU and China' as part of the *Interoperability for Enterprise Software and Applications (I-ESA)* conference.

The China EU Information Technology Standards Research Partnership was established, with funding under the European Commission 7th Framework Programme, to examine China's increasing activity in standardisation-centred innovation; to explore the implications for industrial strategy and public policy in Europe and China, and to bring these developments to the attention of wider communities of policy, research and industry players.

Can East Meet West?

Robin Williams presented a paper: 'Can East Meet West? Understanding different responses between UK and China to nanotechnology and its governance' as the Closing Plenary

presentation to the the ESRC/RCUK-sponsored UK-China workshop: *Nano: Regulation & Innovation: The Role of the Social Sciences and Humanities*, Beijing, 14-15 January 2009.

The University of Edinburgh
College of Humanities and Social Sciences
School of Social and Political Science
CHAIR IN INNOVATION IN THE LIFE SCIENCES

The University of Edinburgh is one of the world's leading locations for research and teaching in the life sciences. With strongly interdisciplinary programmes across all its Colleges (Humanities and Social Science, Medicine and Veterinary Medicine, and Science and Engineering) the University both shapes the trajectory of the new life sciences and leads public and policy debate on their future applications.

We are seeking an outstanding research leader with an international reputation and exceptional knowledge (perhaps with practitioner experience) in the socio-economic study of the life sciences, innovation, regulation and policy. The successful applicant will become part of the directorate of the ESRC Centre for Social and Economic Research on Innovation in Genomics (Innogen), and will be expected to exercise leadership in research development and to consolidate the excellent collaboration between the social sciences, natural sciences and medicine and carry forward the University's reputation as world-leading in this exciting, expanding field.

The salary will be on the Grade 10 scale (£53,650 - £90,104) and the appointment will be made from 1st December 2009 or as soon as possible thereafter.

Please see Vacancy Reference 3010871 on www.jobs.ed.ac.uk for further details.

ISSTI and Sociology research rated top in Scotland and equal 6th in UK Research Assessment Exercise

We are delighted to announce our results for the Research Assessment Exercise 2008. The RAE panel gave our research activity these ratings: * 30% world-leading (4-star) * 25% internationally excellent (3-star) * 35% recognized internationally (2-star) * 10% recognized nationally (1-star) That is equal sixth-best in the UK by average star-rating.

ISSTI Subject Group (comprising the Research Centre for Social Sciences, including the ESRC Centre for Economic and Social Research on Innovation in Genomics, and the Science Studies Unit) and many members of the broader ISSTI network in the ESRC Genomics Forum, Engineering and Informatics and beyond were submitted together with Sociology.

Robin Williams stated 'ISSTI members made an important contribution in terms of both star rating and the volume of our submission. We were very pleased to be able to include many career research staff as well as lecturers. Our submission was twice as big as in the 2001 RAE. Every single eligible person was included, and half the submission was early-career people who got their jobs only in 2001 or later. This is a fantastic achievement that will bring resources as well as reputational benefits and paves the way for our further development. Congratulations to all involved. This positive outcome also points to the benefits of the close interdisciplinary collaborations we have established with Sociology, the rest of the School of Social and Political Science and others across the University.'

Donald MacKenzie: *Material Markets: How Economic Agents are Constructed*

Financial markets, processes, and instruments are often difficult to fathom; the credit crisis highlights both their importance and their fragility. In this book, Donald MacKenzie argues that economic agents and markets need to be analyzed in their full materiality: their physicality, their corporeality, their technicality. Markets are populated not by disembodied, abstract agents, but by embodied human beings and technical systems. Concepts and systematic ways of thinking that simplify market processes and make them mentally tractable are essential to how markets function.

In putting forward this material sociology of markets, the book synthesizes and contributes to the new field of social studies of finance: the application to financial markets not just of economics but of wider social-science disciplines, in particular science and technology studies. The topics covered include the development of financial derivatives exchanges (non-existent in 1970, but now trading products equivalent to \$13,000 for every human being on earth); arbitrage; how corporate profit figures are constructed; the crucial new markets in carbon emissions; and a case-study of a hedge fund (based, unusually, on direct observation of its trading).

New ESRC CASE studentship for Innogen

Innogen has been awarded an ESRC CASE studentship (1+3) which is held by Emma King. The project title is "Innovation and Regulation Interactions in the Development of Clinical Stem Cell Therapies" and the research will investigate the range of viable public and private sector innovation trajectories, business models, and hybrid approaches to the development of embryonic stem cell therapies, taking into account related social, commercial and political drivers and barriers. These issues are of fundamental interest to the disciplines of science and technology studies, innovation studies and strategic management; and are also a major concern to the two partner organisations; the Scottish Stem Cell Network and the Scottish National Blood Transfusion Service.

OXFORD UNIVERSITY PRESS	20% discount valid until 31st May 2009 only if orders are placed directly with OUP
Material Markets How Economic Agents are Constructed Donald MacKenzie, Professor of Sociology (Personal Chair), University of Edinburgh Financial markets, processes, and instruments are often difficult to fathom; the credit crisis highlights both their importance and their fragility. Donald MacKenzie is one of the most perceptive analysts of the workings of the financial world. In this book, he argues that economic agents and markets need to be analyzed in their full materiality: their physicality, their corporeality, their technicality. Markets are populated not by disembodied, abstract agents, but by embodied human beings and technical systems. Concepts and systematic ways of thinking that simplify market processes and make them mentally tractable are essential to how markets function. In putting forward this material sociology of markets, the book synthesizes and contributes to the new field of social studies of finance: the application to financial markets not just of economics but of wider social-science disciplines, in particular science and technology studies. The topics covered include the development of financial derivatives exchanges (non-existent in 1970, but now trading products equivalent to \$13,000 for every human being on earth); arbitrage; how corporate profit figures are constructed; the crucial new markets in carbon emissions; and a case-study of a hedge fund (based, unusually, on direct observation of its trading). The book will appeal to research students and academics across the social sciences, and the general reader will enjoy the book's explanations and analyses of some of the most important phenomena of today's turbulent markets. December 2008 238 pages Hardback 978-0-19-927815-2 £19.99 £15.99	 Donald MacKenzie's latest book in the social study of finance provides a concise introduction to his pioneering work in the area This timely book helps make sense of some of the underlying causes of the turbulence in financial markets, such as the 'credit crunch' Draws on rare research access to a hedge fund Includes a study of the establishment of international carbon emissions markets Readership: Academics, researchers, and students across the social sciences interested in social studies of finance; Readers interested in understanding today's turbulent markets.

Masters studentships

ISSTI has offered two studentships for its MSc programmes in the coming academic year, and they have attracted an impressive set of applications. Decisions on the recipients will be made soon after this newsletter goes out.

The David Edge Studentship will provide support for a student in either the MSc Science and Technology Policy and Management or the MSc Science and Technology Studies. The studentship, first awarded last year and currently held by MSc STPM student Jamie Robertson, honours the life and achievements of Science Studies Unit founder David Edge. *The Innogen Masters Studentship*, introduced this year, will support a student taking the increasingly popular Life Sciences and Biotechnology specialist strand in either of the two taught MSc programmes.



ESRC Fellowship awarded to Neil Pollock

An ESRC Fellowship on the *Social Study of the Information Technology Marketplace: The Role of Industry Analysts* has been awarded to Dr Neil Pollock.

Today the market for complex IT is undergoing radical changes in nature and operation. It is increasingly shaped by new kinds of specialist intermediary organisations that link technology supply and use through offering a commodified form of knowledge and advice.

Industry analysts and IT research firms have been increasingly successful in exploiting the uncertainties that exist in technology procurement through generating highly influential assessments of the relative location and standing of individual vendors and the efficacies of their products.



The demand for such advice is large and growing (with the bigger firms spending annually up to £1 million on IT research). These assessments have proven to be extremely effective in swaying procurement decisions and influencing vendor product strategies.

Yet, despite the growing importance of industry analysts, not much is currently known about this specific form of expertise, the precise characteristics of knowledge produced, the kind of influence analysts exert, or their role in organising the IT marketplace.

It is hypothesised that, because of the increasing range, escalating complexity and rapid evolution of IT products, the knowledge produced by these kinds of organisations is gaining relevance. They are analysed here as 'Promissory Organisation' to reflect the fact they are highly successful in mobilising promise and expectations amongst supplier and user communities alike.

These and similar types of complex market shaping phenomena can be seen in a wide range of sectors (especially those

dogged by high levels of uncertainty). In order to characterise the role and influence of Promissory Organisation there is an urgent need for the Social Study of Technology and Innovation to develop the analytical tools and frameworks to allow researchers to carry out a systematic and sophisticated study of these actors.

To this purpose, this Fellowship will investigate industry analysts through an innovative and interdisciplinary enquiry that, while remaining rooted in Science and Technology Studies, also draws on exciting developments in Economic Sociology and the Sociology of Finance. See <http://www.neilpollock.moonfruit.com> for more details on the nature of the research that will be conducted.

Edinburgh eHealth group participates in new health research initiative

Members of the Edinburgh eHealth group from Population Health Sciences (Claudia Pagliari; Sarah Cunningham-Burley) and the AHRC Centre (Graeme Laurie) have successfully attracted a £5M programme grant from the Wellcome Trust under their 2008 call on electronic health records for research. The 'Scottish Health Informatics Partnership' (SHIP) is a collaboration between the universities of Dundee, Edinburgh, Glasgow, St Andrews and NHS ISD to develop a technical and governance infrastructure for research using electronic patient records. Edinburgh is leading the Public Involvement and Governance workstreams and will be employing research staff and secretarial support.

In addition, two new online MSc programmes in Health Informatics and Health Information Governance began running at the end of 2008, in a collaboration between the University of Edinburgh and the Royal College of Surgeons of Edinburgh. For further information see <http://www.mvm.ed.ac.uk/gradschool/healthinformatics/index.htm>



Events

In Search of Best Practice: Enduring Ideas in Strategy, Innovation, and Technology Management, 21 May 2009

Speaker: Professor Michael A. Cusumano, Sloan Management Review Distinguished Professor of Management at the MIT Sloan School of Management and Professor of Engineering Systems, MIT School of Engineering

Date/time: Thursday 21 May 2009 at 4pm

Venue: Lecture Theatre 1, Edinburgh Business School, Bristo Square, Edinburgh

In conjunction with the Edinburgh Business School's San Ei Gen Distinguished Lecture Series AIM Innovation Fellow Luciana D'Adderio will be hosting a lecture by Prof. Michael Cusumano (MIT).

This lecture will present an overview of Professor Cusumano's forthcoming book, titled *In Search of Best Practice: Enduring Ideas in Strategy, Innovation, and Technology Management*, prepared for the 2009 Clarendon Lectures in Management Studies at the University of Oxford.

The focus is on concepts important to address the dual challenge of simultaneous "innovation and commoditization" in many industries. These ideas have been studied extensively by theoretical and empirical academic researchers and also have appeared in Professor Cusumano's research over the past 25 years. His work has focused on the automobile, software, and consumer electronics industries, including large-sample research and case studies of Toyota, Microsoft, Sony, JVC, Netscape, and Intel, as well as Japanese and Indian 'software factories.'

The six ideas are:

- (1) Capabilities, not just strategy (or vision);
- (2) Pull, don't just push;
- (3) Scope, not just scale;
- (4) Flexibility, not just efficiency;
- (5) Platforms, not just products; and
- (6) Services, not just products (or platforms).

The first four ideas all deal with firm "agility" or the ability to anticipate or react quickly and flexibility to change. The last two ideas extend the capabilities and innovation horizons of the product firm beyond conventional modes of strategy and business models.

Professor Cusumano positions each idea against other concepts frequently associated with 'best practices' and competitive advantage but which he believes are less valuable than they seem. Finally, he will discuss the difficulty of arriving at any absolute set of 'best practices' given the limitations of case studies and large-sample research methods as well as various contextual variables such as environmental changes that limit our ability to generalize.

Michael A. Cusumano is the Sloan Management Review Distinguished Professor of Management at the MIT Sloan School of Management, where he has taught since 1986. He also holds a joint appointment as Professor of Engineering Systems in the MIT School of Engineering. He is a director of Patni Computer Systems, a leading IT services provider based in India (NYSE: PTI, www.patni.com), and Eliza Corporation, which provides interactive voice communication solutions for the healthcare industry (www.elizacorp.com). He has consulted for dozens of major corporations around the world and is the author or co-author of 'The Business of Software', 2004, 'Platform Leadership', 2002, 'Competing on Internet Time', 1998, 'Thinking Beyond Lean', 1998, 'Microsoft Secrets', 1995, 'Japan's Software Factories', 1991, and 'The Japanese Automobile Industry', 1985.

For further information please contact Luciana D'Adderio (L.D-Adderio@ed.ac.uk) or visit Luciana's AIM Fellowship webpage at <http://www.dependableinnovation.org/>

To book a place on this event please email Sarah Brown sarah.brown@ed.ac.uk, cc-ing Luciana D'Adderio L.D-Adderio@ed.ac.uk



Event Reports

Governance of New Technologies: The Transformation of Medicine, Information Technology and Intellectual Property

Hardly a day goes by that we are not reminded that we are in the information the techno ages. New technologies are reshaping the way we communicate, conduct business, treat the sick, and govern. As a vehicle for academic thought, *SCRIPTed - A Journal of Law, Technology & Society* is deeply concerned and engaged with these phenomena and how they interact and how they co-produce the reality we experience.

The *Governance of New Technologies* conference, held in Edinburgh on 29-31 March 2009, was an opportunity for students, academics and practitioners of various disciplines to enhance their thinking around evolving and emerging technologies and new-technology-driven practices and their impact on the overlapping fields of (1) healthcare, (2) information technology and (3) intellectual property, each of which are increasingly important in the post-genomic and post-AI world.

These three streams of inquiry raised many issues that overlapped and generated good discussions which seemed to encourage the speakers to further inquiry. A forum in which post-graduate students (PGS) and early career researchers (ECR) from the UK and beyond could discuss their research and network with each other, and with more senior experts, there was an excellent mix of jurisdictions represented, and an almost equal number of PGS/ECR speakers and senior speakers.

Specific statistics from the conference are:

Keynotes: Mr. Antony Taubman (WIPO), Prof. Jon Bing (University of Oslo), Prof. Bartha Knoppers (University of Montreal).

Speakers: 35, speakers from Argentina, Austria, Brazil, Canada, China, England, Finland, Germany, India, Italy, Japan, Jordan, Netherlands, Norway, Republic of Ireland, Scotland, Sweden, Switzerland, Taiwan, USA, including 16 students and 2 practitioners.

Delegates: 110, from Argentina, Austria, Belgium, Brazil, Canada, China, England, Finland, Germany, India, Italy, Japan, Jordan, Netherlands, Northern Ireland, Norway, Republic of Ireland, Scotland, Sweden, Switzerland, Taiwan, USA.

The feedback forms have been consistently positive and have rated the facilities, the organisation, the academic content, and the networking elements all as "excellent" or "good". In particular, both the keynotes and the parallel sessions were highly rated, and most reported that the talks were relevant to their work.

Shawn H.E. Harmon

Research Fellow

InnoGen, ESRC Centre for Social & Economic Research on Innovation in Genomics SCRIPT, AHRC Research Centre for Studies in Intellectual Property & Technology Law Editor-in-Chief SCRIPT-ed



The Genetics and Identity Politics of Parenthood and Family: We are family?

Gill Haddow organised *The Genetics and Identity Politics of Parenthood and Family: We are family?* workshop as part of the Network wide Genetics and Identity work stream. The workshop was held at the Genomics Forum, The University of Edinburgh on 19-20 February 2009.

Contact Gill on Gill.haddow@ed.ac.uk for further details.

eDiscussion on Health Innovation

Julius Mugwagwa, Becky Hanlin, Lois Muraguri and Joanna Chataway organised an online Health Innovation eDiscussion about international vaccine initiatives and health system strengthening.

One of the aims of the eDiscussion was to prepare for a formal workshop on Health Innovation on 6th & 7th April 09 at the Open University. Please contact Julius for additional information: J.T.Mugwagwa@open.ac.uk

Genomics and Society: Reinventing Life?

In October 2008, Innogen coordinated the successful conference *Genomics and Society: Reinventing Life?*, held in Savoy Place London, on behalf of the ESRC Genomics Network. The conference aimed to examine the issues surrounding the broad applications of genomics research from pharmaceuticals to fuel and consider the implications of the life sciences for policy and practice - from innovation and global competitiveness to what this might mean for our personal identity and the ethics of genomics research. Keynote lectures were given by Professor Paul Rabinow, Professor Bartha Maria Knoppers and Dr Iain Gillespie.

Of the 230 delegates who attended, approximately a third were EGN colleagues, another third were other academics and the remaining group comprised representatives from business, government, voluntary sector organisations and regulatory bodies

The conference received press coverage on 55 different news websites around the world, including The Times, BBC, The Herald and Scientific American. The conference was also featured in an article in *The Pink Sheet*, a top pharmaceutical specialist publication in the USA and Professor Dave Wield was interviewed by several journalists in California and in Sweden.

This year's conference, the ESRC Genomics Network 3rd International Conference: *Mapping the Genomic Era: Measurements and Meanings*, will be held on 7-9 Oct 2009 at the City Hall, Cardiff. Call for papers www.genomicsnetwork.ac.uk/events/title,8374,en.html

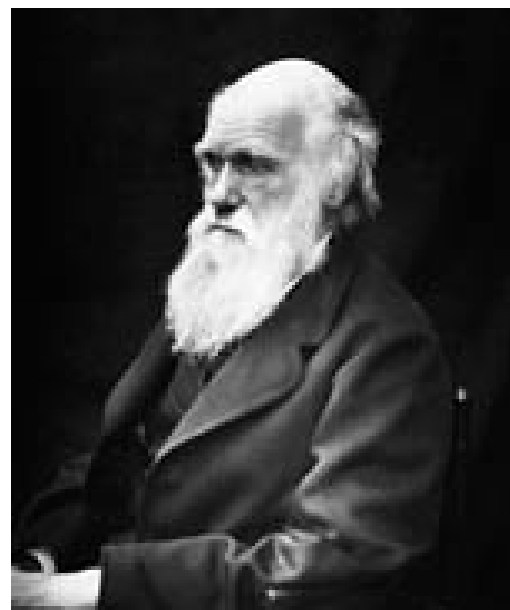


Understanding Technology lecture series

The popular series of public lectures organised jointly by ISSTI and National Museums Scotland has continued into 2009. In January historian of science Dr Richard Noakes from the University of Exeter talked on *Connecting Cornwall: Telecommunication, Locality and Work in West Britain, 1870-1918*. In March Professor Colin Divall, Professor of Railway Studies at the University of York, and Head of the Institute of Railway Studies & Transport History, offered a thought-provoking argument on how histories of transport might stimulate thinking about a sustainable transport future - *'To encourage such as would travel a little, to travel more': Trains, Planes, Cars, History and the Future of Mobility*.

Darwin's Edinburgh

ISSTI's Dr John Henry was one of the panellists at a discussion, attended by 1200 people, to celebrate Charles Darwin's 200th birthday. *Darwin's Edinburgh* held on 12 February in MacEwan Hall, Edinburgh was the first in a series of events at the University marking the birthday as well as the 150th anniversary of the publication of *Origin of Species*.



Darwin started his studies at the University of Edinburgh in 1825, encountering the fruits of the Scottish Enlightenment including important advances in medicine, the adventurous development in theological and philosophical thought, as well as James Hutton's revolutionary theories of geology, which caught Darwin's interest in particular.

At the 12th February event Dr Henry talked about the scientific ideas surrounding the young Darwin, and looked into how this may have influenced his later thinking.

Professor Stuart Monro focused on Darwin's interest in geology. Not unlike the present days, the years Darwin spent in Edinburgh were marked by economic turmoil with bankruptcies and crises in the property market, and social historian Dr Stana Nenadic provided insights into this as well as the social and cultural context of Edinburgh at the time.

Darwin's Edinburgh was an informative and entertaining discussion on the scientific and wider social environment Darwin experienced while in Edinburgh and how this influenced his later works.



RiskBridge: Risk Governance and Policy Learning Within and Between Risk Fields, 26 and 27 March 2009

The Project Partners of a recently completed European Commission FP6 funded project called *RiskBridge* (<http://www.riskbridge.eu/>) recently hosted an international, interdisciplinary conference on risk governance and policy learning within and across six important risk fields:

- stem cells,
- nanotechnology,
- radioactive waste,
- sediments,
- climate change and
- electromagnetic fields.

The conference was held on March 26th/27th 2009 at the Scotland House Conference Centre in the heart of the political quarter of Brussels and 70 delegates attended. The main purposes of the conference were to disseminate key project findings to academics, scientists, policymakers and NGOs, and to generate interdisciplinary debate.



Over the past three years, the project partners have brought a number of scientific experts and policymakers from the various riskfields together through a series of workshops to consider the principal risk issues associated with each field, criteria for good governance and management of risk, methods to promote learning across risk fields, and management of the science/policy interface. Practitioners within the various risk fields, scientists and social scientists interested in general issues around risk governance of complex technologies, policymakers directly involved in risk management, and representatives from industry and NGOs came together in Brussels for what was a highly productive conference.

Key themes explored in the conference, through keynote talks, panel discussions and thematic workshops, included:

1. Risk governance processes in national and international contexts
2. Risk management from academic, commercial and public-sector perspectives
3. State of the art risk governance and major policy challenges for stem cells, nanotechnology, radioactive waste, sediments, climate change and electromagnetic fields.
4. Policy learning across risk fields and implications for international risk management.
5. Transversal issues relevant to risk analysis: The role of systems thinking and adaptive governance

The conference programme can be viewed as a pdf at: <http://www.genomicsnetwork.ac.uk/media/RiskBridge%20Conference%20Programme%20March%202009.pdf>

Proceedings from the conference (presentation slides and summary reports) will be published soon.

For enquiries/further information, please contact Dr James Mittra, James.Mittra@ed.ac.uk Tel: +44 131 650 2453

AIM Workshop: Designing Successful Proposals for Engaged Scholarship

As a follow-up to the AIM event in held in November 2008, Dr Luciana D'Adderio, together with other AIM Innovation Fellows Zella King (Reading), Mike Chiasson (Lancaster) and Jon Sapsed (Brighton), hosted a popular and much-anticipated workshop with high-profile AIM academics and AIM International Visiting Fellows. The workshop offered a great opportunity for delegates to develop their own proposals.

Professor Michel Callon's Edinburgh Seminar

On April 24, AIM Innovation Fellow Luciana D'Adderio had the great honour to host a seminar by economic sociologist and distinguished scholar Professor Michel Callon (Ecole des Mines, Paris).

Michel is best known as the co-founder (with Bruno Latour) of the Actor Network Theory (ANT) approach which revolutionised the field of science and technology studies and has now gained widespread recognition in the fields of innovation and organisation studies and elsewhere.

His presentation was based on a work-in-progress paper on the role of formulae in the economization of markets. It was extremely well received by an enthusiastic audience of scholars from several UK universities including Edinburgh, London School of Economics, St. Andrews and Durham, with backgrounds in management, organisation studies, innovation studies, accountancy and geography.

The discussion explored some of the most exciting developments in the emergent field of performativity theory, of which Michel is a main proponent.

For more information about the workshop, or to read about recent applications of the concept of performativity in theories of organisations and routines, see Luciana D'Adderio's AIM Fellowship webpage at: www.dependableinnovation.org.

Festival of Social Science

Shawn Harmon, Alessandro Rosiello, Daniele Fanelli and Lara Crossland from Innogen ran a workshop for secondary school pupils in London and Dumfries entitled *The Future of Medicine: Innovation from Bench To Bedside* as part of the The ESRC Festival of Social Science 6th – 15th March 09 and Young Scientists and Engineers Fair 5th March 09

The workshop explored what makes a substance or a process

Interdisciplinary Masterclass, April 2009



The most recent workshop in the *ISSTI Interdisciplinary Masterclass* took place in Edinburgh on the 22-23 April. These workshops aim to develop participants' research management, leadership and supervisory skills in interdisciplinary projects across the social and natural sciences.

During the workshop the participants:

- explored their motivations for interdisciplinary research and the different modes of interdisciplinary working
- considered some of the skills needed to be a good interdisciplinary researcher, research manager and leader of interdisciplinary teams
- discussed some of the ways in which interdisciplinary collaboration may be sustained, the problems that may be encountered and tactics for addressing such challenges.

This workshop was open to any ESRC-funded researchers at postdoctoral level and above who are engaged in interdisciplinary research between the social and natural sciences.

This Masterclass was organised by Dr Catherine Lyall (C.Lyall@ed.ac.uk) under an award from the ESRC Researcher Development Initiative www.rdi.ac.uk. The ISSTI interdisciplinary wiki can be found at <https://www.wiki.ed.ac.uk/display/ISSTIInterdisciplinary/ISSTI+Interdisciplinary+Wiki+Homepage>

a prescription medicine and investigated how medicines are developed from bench to bedside. Other questions such as: How long does it take? How much will it cost? Who will pay for it? Who will be treated? And who decides if it's safe? were discussed.

Further information on these series of events can be found at www.esrc.ac.uk



Selected New ISSTI publications

Francesca Bray, guest editor, 'Constructing intimacy: technology, family and gender in East Asia', *EASTS: an International Journal* 2(2), 2008

Jane Calvert, 'The commodification of emergence: systems biology, synthetic biology, and intellectual property', *BioSocieties* 3, 2008, 383-398

Jane Calvert and Paul Martin, 'The role of social scientists in synthetic biology', *EMBO Reports* 10(3), 2009, 201-204

Richard Coyne, Mark Wright, James Stewart & Henrik Ekeus, 'Virtual flagships and sociable media', in T Kent & R Brown (eds.), *Flagship Marketing: Concepts and Places*, London, Routledge, 2009, 46-62

Ivan Crozier, 'Pillow talk: credibility, trust and the sexological case history', *History of Science* 46, 2008, 375-404

Ivan Crozier, 'The trial of Ronald True (1922) and medical and psychiatric reactions to the M'Naghten rules', in A Andresen *et al.* (eds.), *Citizens, Courtrooms, Crossings: Conference Proceedings*, Stein Rokkan Centre for Social Studies, Bergen, 2008, 129-145

Luciana D'Adderio, 'Dependable innovation in manufacturing', in ESRC, *Britain in 2009*

Luciana D'Adderio, 'The influence of artefacts and distributed agencies on routines' dynamics: from representation to performance', in M Becker & N Lazaric (eds.), *Organizational Routines*, Edward Elgar, Cheltenham, 2009, 89-114

Chad Damro, Iain Hardie & Donald MacKenzie, 'The EU and climate change policy: law, politics and prominence at different levels', *Journal of Contemporary European Research* 4(3), 2008, 179-192

John Henry, 'Voluntarist theology at the origins of modern science: a response to Peter Harrison', *History of Science* 47, 2009, 79-113

John Henry, 'Physics in Edinburgh: From Napier's Bones to Higgs's Boson', in JS Rigden & RH Stuewer (eds.), *The Physical Tourist: a Science Guide for the Traveler*, Birkhauser Verlag, Basel, 2009, 21-54

John Henry, 'The Merton thesis', in HA Campbell & H Looy (eds.), *A Science and Religion Primer*, Baker Academic, Grand Rapids MI, 2009, 141-143

Anne Sofie Laeگران, 'Domesticating home anchored work: negotiating flexibility when bringing ICT based work home in rural communities', *Geoforum* 39(6), 2008, 1991-1999

Anne Sofie Laeگران, 'Technosocial space: connecting people and places', in P Turner, S Turner & E Davenport, *Exploration of Space, Technology and Spatiality: Interdisciplinary Perspectives*, Information Science Reference, Hershey PA, 54-70

Catherine Lyall, *Short Guide to Designing Interdisciplinary Research for Policy and Practice*, ISSTI Briefing Note 6, Nov 2008

Catherine Lyall & Laura Meagher, *Short Guide to Troubleshooting some Common Interdisciplinary Research Management Challenges*, ISSTI Briefing Note 5, Aug 2008

Donald MacKenzie, 'An address in Mayfair', *London Review of Books* 30(23), 2008, 9-12

Donald MacKenzie, *Material Markets: How Economic Agents are Constructed*, Oxford University Press, Oxford, 2009

Laura Meagher, Catherine Lyall & Sandra Nutley, 'Flows of knowledge, expertise and influence: a method for assessing policy and practice impacts from social science research', *Research Evaluation* 17(3), 2008, 163-173

James Mittra, 'Impact of the life sciences on organisation and management of R&D in large pharmaceutical firms', *International Journal of Biotechnology* 10(5), 2008, 416-440

Luigi Orsenigo & Joyce Tait, 'Introduction', special issue: Evolution of the Life Science Industries, *International Journal of Biotechnology* 10(5), 2008, 389-403

Sarah Parry, 'Stem cell scientists' discursive strategies for cognitive authority', *Science as Culture* 18(1), 2009, 89-114

Alessandro Rosiello, 'Examining Scottish Enterprise's Framework for Action in life sciences', *International Journal of Biotechnology* 10(5), 2008, 496-517

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Staff and Visitors

Obituary - Ken Green (1946 - 2009)

It is with great sadness that we record the untimely passing of our esteemed colleague Ken Green, Professor of Environmental Innovation Management at Manchester Business School. Famous for his acerbic wit, Ken was one of that first generation of scientists who became concerned about the social and political implications of science and technology and helped constitute and establish the emerging field of science and technology studies. At Manchester and UMIST he built bridges between evolutionary economics, innovation studies and more sociological approaches to science and technology studies. His recent work brought these insights to understanding the challenges of environmental sustainability.

Ken Green 1948-2009, Professor of Environmental Innovation Management and Deputy Director for Strategy and Management at Manchester Business School. Died 12 February 2009

First MSc STPM graduates

Congratulations to Jessica Williamson and Andrew Wright, who were awarded their Masters degrees in Science and Technology Policy and Management in December – the first graduates from the new programme. Andrew has now become one of the first cohort of students in the Edinburgh MSc in Carbon Management, run jointly by the School of GeoSciences and the Business School. Jessica has since been involved in a series of projects in technology entrepreneurship, working in particular with PWB Health to launch a new health device called Breastlight, and organising the Engage|Invest|Exploit Investor Showcase for the University of Edinburgh's Informatics Ventures.

Honorary Professorship for Ivan Crozier

14-23 March 2009: Ivan Crozier was invited to the Cátedra Internacional de psicopatología y clínica psiquiatría Pr German Berrios [Professor German Berrios International Chair in Psychopathology and Clinical Psychiatry], for which he was awarded an Honorary Professorship in the Department of Psychiatry, Universidad de Antioquia, Medellín, Colombia. While there he gave four lectures on the history of psychiatry, including two on his new interest in culture bound syndromes.

Other participants in the Catedra German Berrios: (L – R): Dr Juliana Gomez Franco (Universidad de Antioquia, Colombia); Professor Jorge Holguin Lew (Universidad de Antioquia, Colombia); Professor Rogelio Luque (Universidad de Córdoba, Spain); Professor Rafael Garcia (Universidad Autónoma de Santo Domingo, Dominican Republic); Dr Vaughan Bell (Institute of Psychiatry, London/ Universidad de Antioquia, Colombia); Professor Jorge Orspina (Universidad de Antioquia, Colombia); Ivan Crozier (SSU).

Ballistic Missile Defense, Then and Now

Graham Spinardi gave a talk at the National Air and Space Museum in Washington DC in their History Colloquium series on Oct 23rd 2008 entitled 'Ballistic Missile Defense, Then and Now'.

Visiting Fellow from South America

Professor Judith Sutz from the Universidad de la República, Uruguay visited Innogen during Jan and Feb with assistance from ESRC-SSRC. Her research interests are Science & Technology Policy in Latin America.

Bioethics council appoints new member

Graeme Laurie has been appointed as a member of the Nuffield Council on Bioethics as of 1 January 2009.

Visitors from Netherlands Forum for Biotechnology

A delegation of 8 members of the Netherlands Forum for Biotechnology visited Innogen as part of their Scottish collaboration visit. Dave Wield, James Mittra, Alessandro Rosiello and Gill Haddow from Innogen gave short presentations.

