

ISSTI

THE INSTITUTE FOR
THE STUDY OF SCIENCE
TECHNOLOGY AND INNOVATION

newsletter

no. 21 September 2012

ISSTI members in new Centre for Copyright in the Creative Economy

Congratulations to Professor Burkhard Schafer (right), Director of the SCRIPT Centre for IT and Intellectual Property law, who heads Edinburgh's contribution to CREATE - the Centre for Copyright and New Business Models in the Creative Economy.



This new centre, run by a consortium of UK universities led by the University of Glasgow, will examine a range of issues relating to new digital technologies with a view to meeting some of the central challenges facing the UK's creative economy.

More on CREATE and other recent funding successes across the ISSTI community on [page 2](#).

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CREATE

New Centre for Copyright brings major boost to UK's creative industries

The Centre for Copyright and New Business Models in the Creative Economy – known as CREATE (Creativity, Regulation, Enterprise and Technology) - will be run by a consortium of UK universities led by the University of Glasgow, and will examine a range of issues relating to new digital technologies with a view to meeting some of the central challenges facing the UK's creative economy.

Edinburgh's contributions are led by Professor Burkhard Schafer, Director of the SCRIPT Centre for Information Technology and Intellectual Property Law in the School of Law.

The UK has probably the largest creative sector in the world relative to GDP, accounting for over 6% of the overall economy and contributing around £60Bn per annum. However, building a business, cultural and regulatory infrastructure that can spark innovation, capitalise on new revenue streams and harness the potential of new and emerging technologies are

challenges that face the sector as it aims to maintain the UK's global leadership in this field.

The new CREATE Centre will address these and other challenges by exploring a range of issues such as those associated with digitisation, new intellectual property issues and how best to support relationships between the arts and technology.

CREATE is funded by the Arts and Humanities Research Council (AHRC), Engineering and Physical Sciences Research Council (EPSRC) and Economic and Social Research Council (ESRC),

following the launch last year of a £4 million initiative to support one multidisciplinary research centre over a four year period focussing on real research challenges in the creative economy.

Led by the University of Glasgow, CREATE comprises the Universities of Edinburgh, Strathclyde, St Andrews, Nottingham's digital economy hub (Horizon), the University of East Anglia and Goldsmiths, University of London. Although not providing funding, NESTA, the Intellectual Property Office and the Technology Strategy Board will also be involved in the CREATE centre.

ISSTI Funding Successes

CREATE success for Gian Marco Campagnolo and Robin Williams

Congratulations to Gian Marco Campagnolo and Robin Williams, who have secured substantial funding for a comparative study of Open Source Software and Open Film as part of the CREATE Digital Economy research centre.



**Gian Marco
Campagnolo**



Robin Williams

We are delighted to announce four further funding successes by ISSTI members in very diverse fields of energy consumption, synthetic biology, medical anthropology, and stem cell biotechnology.

Janette Webb is part of a team for the project *Intelligent Domestic Energy Advice Loop*.

Jane Calvert is co-investigator on *An Infrastructure for Platform Technology in Synthetic Biology*

Ian Harper has won a Wellcome Trust award for *Understanding TB Control: technologies, ethics and programmes*

Aditya Bharadwaj has won a very prestigious European Research Council Consolidator Grant for a project to investigate Stem Cell Biotechnologies in India.



Janette Webb

Jan Webb is co-investigator on a project led by Nigel Goddard in Informatics which has been awarded a £2 million EPSRC grant for a project *IDEAL: Intelligent Domestic Energy Advice Loop*. Computer scientists, building engineers, and sociologists will explore the interaction of energy technologies and householder behaviours. The 3-year project will construct an enhanced feedback loop to provide details of energy use, with suggestions for householders.



Jane Calvert

Jane Calvert, with colleagues from the College of Science and Engineering at Edinburgh, is co-investigator on a large multi-institutional grant *An infrastructure for platform technology in synthetic biology*. This £5 million project is led by Imperial College London with Cambridge, Newcastle and King's College London. Jane will work on social dimensions with Emma Frow from STIS and Nik Rose and Claire Marris from KCL.



Ian Harper

Further details: <http://www.epsrc.ac.uk/newsevents/news/2012/Pages/syntheticbiology.aspx>.

Ian Harper has been awarded a £772 thousand grant from the inaugural Wellcome Trust Investigator Awards in Medical Humanities for a five-year project *Understanding TB Control: technologies, ethics and programmes*, in India, Nepal, Papua New Guinea and South Africa.

ISSTI Funding Successes

We are delighted to announce that **Adi Bharadwaj** has been successful in his application for a **European Research Council Consolidator Grant**. The title of the project is **The Red Revolution: Emergence of Stem Cell Biotechnologies in India**.

The award is for almost €1.5million. This very prestigious award follows recent SPS successes in the Advanced Investigator Awards by Donald MacKenzie and James Smith (see *ISSTI Newsletter February 2012 Issue 20*).



Source: http://commons.wikimedia.org/wiki/File:Mouse_embryonic_stem_cells.jpg. This image is a work of a National Science Foundation employee, taken or made during the course of the person's official duties. As a work of the U.S. federal government, the image is in the public domain.



European Research Council

Established by
the European Commission

ESRC Knowledge Exchange: Agricultural Biotechnology

Joyce Tait, David Castle James Mittra and Michele Mastroeni have received around £40k from ESRC's Knowledge Exchange Opportunities Scheme, for a project on *"Engaging with Uncertainty and Risk in Agricultural Biotechnology Regulation: Delivering Safety and Innovation"*.

It is particularly noteworthy that half the funding comes from Syngenta plc, a leading plant biotechnology company. This is the first time Syngenta has funded social science.

syngenta

Upcoming events

Innovation in Information Infrastructures Workshop



9th - 11th October 2012

The University of Edinburgh Business School
29 Buccleuch Place, Edinburgh, UK

This workshop will focus on the emergence and continuing evolution of new kinds of information infrastructures (IIs) in business, the corporate world and other settings. By connecting a growing number of systems and data, Information Infrastructures support user work in everyday life, but also bring about increased organizational and technological complexity.

As Information Infrastructures permeate an increasingly broad range of social and institutional contexts, they generate both new kinds of challenges for information

systems development, and new social, organizational and market forms as foci for social study. The workshop will bring together researchers to share empirical studies,

analytical approaches and methodological concerns in the understanding of Information Infrastructures innovation, and to explore what the future holds for research in this area.

Confirmed Keynote Speakers

- Professor Eric Monteiro
NTNU
- Professor Steve Sawyer
Syracuse University
- Dr. David Ribes
Georgetown University
- Professor Geoff Walsham
University of Cambridge

Selected papers will be considered for a special edition of Journal of the Association for Information Systems (JAIS).

Can't attend the workshop? We are keen to attract contributions from a wide array of those engaged with Information Infrastructures. See <http://iiied2012.wordpress.com/jais/>

Further information at <http://iiied2012.wordpress.com>
For general enquiries contact: i.i.i@ed.ac.uk.

The University of Edinburgh Social Informatics Cluster is an informal multi-disciplinary group at the University of Edinburgh studying the social and technical aspects of information and communication technology.



Upcoming events

Innogen turns 10

This year, Innogen celebrates ten years of intense and exciting research on the social and economic impact of innovation in the life sciences.

To mark the occasion, leaders in industry, policy, media and academia will come together in November at the University of Edinburgh's iconic Playfair Library to honour the indelible footprint that Innogen has made over the last decade and to look toward its continuing influence in the next.

The event will be chaired by Scotland's Chief Scientist for Health, Professor Andrew Morris, and include an exciting line-up of speakers from leaders in science and innovation - each offering their unique thoughts on Scotland's scientific future, Scottish innovation and Innogen's contributions in these areas.

Mark your calendars:

Innogen's 10th Anniversary Celebration will take place on

7th November 2012 from 4:30pm - 7:00pm at the **Playfair Library** in the University of Edinburgh.

A wine reception will start at 4:30pm, with the presentation beginning at 5:30pm.

For further information or to RSVP, please contact Elisabeth Barlow at elisabeth.barlow@ed.ac.uk.

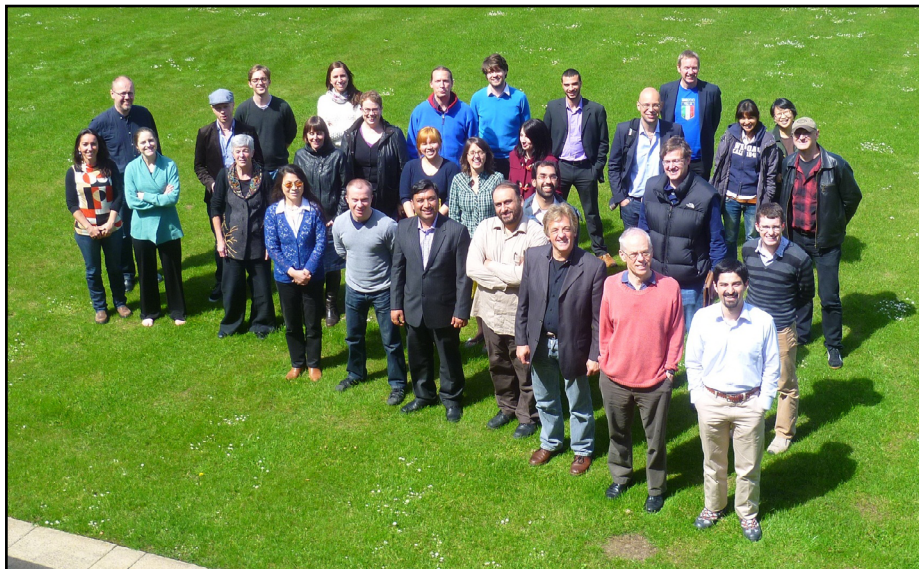


Watch out for the new series of STIS seminars, weekly from 24th September

Details in the Calendar section

ISSTI Retreat 2012

Once again gathered in beautiful North Berwick, with a panorama over the Firth of Forth. There were thirteen presentations loosely around the theme of “Performance and Performativity”; in addition we were very privileged to have two distinguished keynote speakers ending both days’ discussion.



Welcoming us, Robin Williams called to mind the traditions of ISSTI. The annual retreats are “safe yet playful spaces” for presenting ideas in a collegial atmosphere. We are the most interdisciplinary STS research centre in the UK; the programme which followed reflects this breadth of interests.

“Greener” aviation and Carbon Capture and Storage are two technologies which exemplify the balance of forces in meeting sustainability targets. The ideal aircraft would be “all wing” but this would not be acceptable to passengers; jet engines are inefficient

but make it possible to fly faster, higher and more comfortably than more efficient alternatives. It costs \$15-\$20 billion cost to develop anew airliner; the manufacturers cannot afford to get it wrong.

Robin Williams, Graham Spinardi and Jane Calvert led a panel on “Roadmaps”: boosted as robust tools for thinking about the future, but now ubiquitous, roadmaps are as likely to sow FUD, or to present an appearance of coherent strategy and meet a policy timetable. Is STS politically naïve?

For something completely different, Daniele Fanelli attempted to convince us,

using bibliometric analyses, that the as disciplines mature, they approach reach “consensus”, which is a good thing and shows the “hardness” of the discipline.

Steven Shapin, well known to ISSTI from his time at the Science Studies Unit, gave a fascinating and entertaining talk about food, expertise, and the self: if being healthy is “morally good”, how is this reflected in the long history of dietetics?

Mark Wright and Larissa Pschetz managed to get us all moving with an outdoor demonstration of innovative uses of GPS – luckily, the weather was good for once.

Finally, we were privileged to have a second keynote, from Donald MacKenzie on “Five seconds, a history: automated trading, place and path dependence” – challenging the determinisms of technology, “the market” as reified entity, and simplistic notions of globalisation; the concept of path-dependency shows that the specifics of innovations matter, and may have long-lasting and deep effects.

HEAT and the CITY

Remembering the contribution of Stewart Russell

On Friday 30th March, we celebrated the ideas and ideals of our late colleague and friend, Dr Stewart Russell, with a one-day seminar with presentations from many of Stewart's colleagues. These, in different ways, linked to Stewart's contribution in analysing the ways in which Science and Technology Studies has opened up possibilities for intervening in technological development and, in particular, in applying these insights to the challenges of environmental sustainability.



After a welcome and reflections by Robin Williams, Professor Fred Stewart - Stewart's (and Robin's) research supervisor and inspiration at the University of Aston in the 1980's, now of the Policy Studies Institute - recalled this early work in his talk *Revisiting the 1970s 'politics of technology' debates in the light of contemporary discussions on 'sociotechnical transitions'*.

There were presentations on recent research in subjects close to Stewart's heart. Stewart's PhD had sought to explain the complex array of structural and policy factors which underpinned the sharp international differences in the levels of adoption of combined heat and power. Presentations

from Dave Hawkey and Matthias Weber built upon, and carried forward this research tradition, which now has a strong focus in Edinburgh with the Heat and the City project. Robin Roy presented results of a trial of domestic heat pumps - a technology which is mainstream in some countries but neglected in the UK, illustrating the complexities around these issues.

Brian Wynne and Mark Winskel discussed processes of innovation in a historical context bridging policy, theory and practice. Knut Sørensen and Ulrik Jørgensen placed these issues in their wider discourses, on the mainstreaming of sustainable technologies and

reflexivity and interactivity in dialogue with dominant policy rationales.

The seminar, held in the beautiful Old Library of the University of Edinburgh Institute of Geography, next door to Old Surgeons' Hall, developed lively discussions, with a good mix of established scholars and new researchers and students.

Slides from this event are available at:
http://www.stis.ed.ac.uk/issti/news_and_events/stewart_russell_symposium.

The presented papers are being considered for a Special Issue of Science Studies. See next page for more details.

Stewart Russell: Special Issue of Science Studies

We invite contributions for a proposed Special Issue of Science Studies to celebrate the contribution of Dr. Stewart Russell (6th August 1955 - 17th September 2011).

Guest Editors: Robin Williams, Mark Winskel, and Sonia Liff.

The special edition will celebrate the ideas and ideals of our late colleague and friend, Dr Stewart Russell (http://www.stis.ed.ac.uk/stewart_russell). It will build

upon the presentations and discussions at a one-day symposium to commemorate his contribution held at the University of Edinburgh on 30th March 2012 (see previous page).

The special edition will bring together papers that share Stewart's commitment first to analysing the diverse social, economic and political as well as narrowly technical factors that influenced the design and deployment of technologies,

and second in applying these insights and methodologies to the challenges of environmental sustainability through critical, policy oriented studies across a range of energy technologies.

The deadline for submission of papers is **31st January 2013**.

Anyone interested to contribute should contact Robin Williams
R.Williams@ed.ac.uk

Community

A message from Steve Sturdy, new STIS Head of Subject

It's a pleasure and a privilege to be taking over from Robin Williams as head of the Science, Technology and Innovation Studies subject group.

My first task in that role must be to pay tribute to Robin's hard work and leadership over



Steve Sturdy

the past few years. It was in large part due to Robin's vision and energy that STIS was established as a distinct subject group towards the end of 2008, and I am immensely grateful for the dedication with which he has worked to consolidate STIS in the intervening years. I take over from him at an exciting time, with a number of new appointments in the offing, our new MSc in Management of Bioeconomy, Innovation and Governance about to admit its first students, and a revision and relaunch of the MSc in

Science and Technology in Society under way. My aim over next the three years is to maintain this momentum by developing new teaching initiatives, supporting successful research bids, and further advancing Edinburgh's standing as a world-leading centres for the study of science, technology and innovation.

These are goals we all share, and I welcome the opportunity to work with colleagues in STIS, and with our colleagues in ISSTI and in Innogen, to ensure that they are fulfilled.

Community

Brains, Science, and Society

Dr Martyn Pickersgill, Wellcome Trust Senior Research Fellow in Biomedical Ethics, has undertaken a range of activities associated with his research in the social and ethical dimensions of neuroscience, psychiatry and psychology.



Martyn Pickersgill

As a member of the new Mason Institute for Medicine, Life Sciences and the Law¹,

¹ See February 2012 newsletter, Issue 20

Martyn was recently awarded (as co-investigator) an AHRC Exploratory Award (PI: Shawn Harmon, Co-Is: Gill Haddow, James Ironside and Graeme Laurie). The 'Banking (on) the Brain: The Neurological in Culture, Law and Science' project is concerned with how the brain is understood in popular culture, the extent that these ideas are embedded in law, and the manner through which science and public health are in turn impacted.

Martyn has also given a range of invited talks recently (including at the Max Planck Institute for the History of Science, Berlin, and PEALS, University of Newcastle) on the history of

mental health and the social aspects of neuroscience. With colleagues from the University of Manchester Institute for Science, Ethics and Innovation, he has co-organised and participated in public discussion events and a 'Human Body Trail and Tour' at the Manchester Museum (supported through the Wellcome Trust).

Martyn is also involved with a suite of conferences, workshops and seminars arranged as part of the Wellcome Trust Strategic Award in Biomedical Ethics, 'The Human Body, Its Scope, Limits and Future'. For more information, please email: martyn.pickersgill@ed.ac.uk

MSc in Management of Bioeconomy, Innovation and Governance



The Masters in Management of Bioeconomy, Innovation and Governance (MSc BIG) is a new postgraduate qualification designed to meet the increasing demand for skilled people in the growing global bioeconomy.

The programme has now been launched for the 2012-13 academic year.

Society is challenged to make better use of existing resources, add value throughout life science innovation supply chains and bring new

technologies to both existing and emerging markets.

To meet these modern challenges, MSc BIG provides students with a dynamic set of competencies and knowledge about life science innovation – as highly desired by prospective employers.

Community

A European Site for Research Integrity

The European Network of Research Integrity Offices, ENRIO, will soon have a new dedicated website, and ISSTI Research Fellow Daniele Fanelli will be its content manager, in collaboration with Professor Dirk de Hen, of the National Board of Scientific Integrity, Netherlands.

Many countries in Europe have offices that deal with allegations of research misconduct and educate to best research practices, and attempts are being made to integrate these structures across the continent. Daniele had started planning the construction of a European online database for ENRIO

back in 2009, but the project was abandoned due to legal and practical difficulties. Thanks to the initiative of Dirk de Hen, who is a law expert and chair of ENRIO since 2009, the project will become a reality. Hosted by the non-governmental organization *Academia Europaea* (<http://www.acadeuro.org>) the site will

include both public and private pages that will help coordinate the activities of ENRIO, collect and spread information on international organizations dedicated to research integrity, and help gather data on scientific misconduct throughout Europe.

Daniele Fanelli on Scientific Fraud

Whilst visiting the University of Leuven, in Belgium, Daniele Fanelli was interviewed by the journal *Nature*, for a forthcoming feature on scholarly integrity, and also by the Dutch leading newspapers *De Volkskrant*, the American scientific monthly magazine *Discover*, and the prestigious journal *Cell*.

Daniele was also interviewed live on the Italian National Radio program *Moebius*, on *Radio24*, commenting on the recent scientific fraud perpetrated by the Dutch psychologist *Diederik Stapel*.

Daniele Fanelli was invited as a keynote speaker for the 2012 Ethical Forum of the University Foundation, an institution founded in 1920 whose main purpose is to foster interaction between members of all Belgian universities. The annual *Forum*

(<http://www.fondationuniversitaire.be/fr/forum.php>), takes place in November, and this year will have as its theme "*How threatening is Fraud to Science?*"

Daniele Fanelli was invited to give a seminar at the University of Konstanz, on the shores of the homonymous lake in Switzerland, by a sociology group who will start a new research project on publication bias. He will talk about "*What bias causes publication bias?*"

Congratulations to Nils Markusson

Who has just been appointed as Research Fellow, Climate Geoengineering Governance at the University of Oxford, Institute of Science, Innovation and Society



Nils Markusson

Community



ISSTI Work on the Financial Crisis

Those who read Aditya Chakraborty's attack on sociologists in The Guardian for not having anything to say about the causes of the financial crisis might like to know that ISSTI member Donald MacKenzie has received the inaugural Granovetter Award of the American Sociological Association

for his article 'The Credit Crisis as a Problem in the Sociology of Knowledge', published in the American Journal of Sociology in 2011, and available on his website: http://www.sps.ed.ac.uk/staff/sociology/mackenzie_donald. The award is for the best article in economic sociology in 2010 or 2011.

The financial crisis was also the topic of two-day meetings organised by Donald MacKenzie and Desne Masie, held in the School of Social

and Political Science and Business School on June 8th and 9th, with academic papers from leading scholars in the area and a keynote address by Andrew Haldane, Director, Financial Stability, Bank of England.



Donald MacKenzie

Andrew Haldane's talk can be found at: <http://www.bankofengland.co.uk/publications/Pages/speeches/2012/582.aspx>.

Congratulations to Chris Lawless

Chris has been offered a Lectureship in the School of Applied Social Sciences, at the University of Durham.

At Durham, Chris will be continuing his research into forensic science, as well as developing other research projects on risk and resilience in transport infrastructures (the Institute of Hazard, Risk and Resilience is one of Durham's interdisciplinary research centres). He will be developing STS courses to be offered as part of their Sociology and Criminology degree programmes.

It's just down the road - so we hope he will stay in touch.



Chris Lawless

Community



Science and Technology at the National Museum of Scotland

Good progress is being made on the £11.85m project to redevelop the Science and Technology and European Art & Design Galleries at the National Museum of Scotland.

Curators from various disciplines have been working with colleagues across the museum to develop new and innovative ways to display the best of these collections.

The recent success of our public engagement

programmes, including the hugely popular series of events over Easter with the Edinburgh International Science Festival, is helping inspire new ideas for these new galleries.

The National Museum of Scotland holds one of the

most important collections of scientific and technological material in Britain, including scientific instruments; telegraphy and telephony; civil, mechanical and electrical engineering, mining; and Scottish industry past and present.

Using objects in studies of the history of science and technology

The next conference of **Artefacts**, an international association of historians of science and technology, will be in Edinburgh, Scotland, 7–9 October 2012, at the award-winning refurbished National Museum of Scotland.

Speakers have been asked to address the entanglement of national styles and identity and scientific, technical and medical artefacts in a global context.

- Between inventors and the nation: who makes and owns artefacts?
- Do artefacts embody

national styles or distinct communities of practice?

- Do artefacts reflect particular national attitudes on the relationship between science and technology?
- Do artefacts act as signifiers of nationhood and in the construction of nationalist agendas?

- How do museums aim at audiences through artefacts?

Questions and comments about the material that follows should be addressed to Klaus Staubermann at k.staubermann@nms.ac.uk, or <http://www.artefactsconsortium.org/Meetings/MeetingsCurrentF.html>

Community

News from the Genomics Forum

What Scientists Read

Could reading Harry Potter help science find a cure for the common cold, or studying Jane Austen make someone a contender for a Nobel Prize for physics? New research examining the influence literature has upon the work of scientists may soon help provide answers to such questions.

Launched in May 2012, What Scientists Read is an innovative project – funded by the Scottish Crucible - that sets out to discover if reading certain literature might influence a scientist's career path, or even impact the research scientists undertake.

As part of the project, researchers from The ESRC Genomics Forum, and the Universities of Glasgow and St Andrews are seeking volunteers from the scientific community across Central

Scotland to be interviewed about their reading habits.

The research team is also encouraging scientists from across the globe to visit the project's website to share information on their favourite reading matter and how it influences their work.

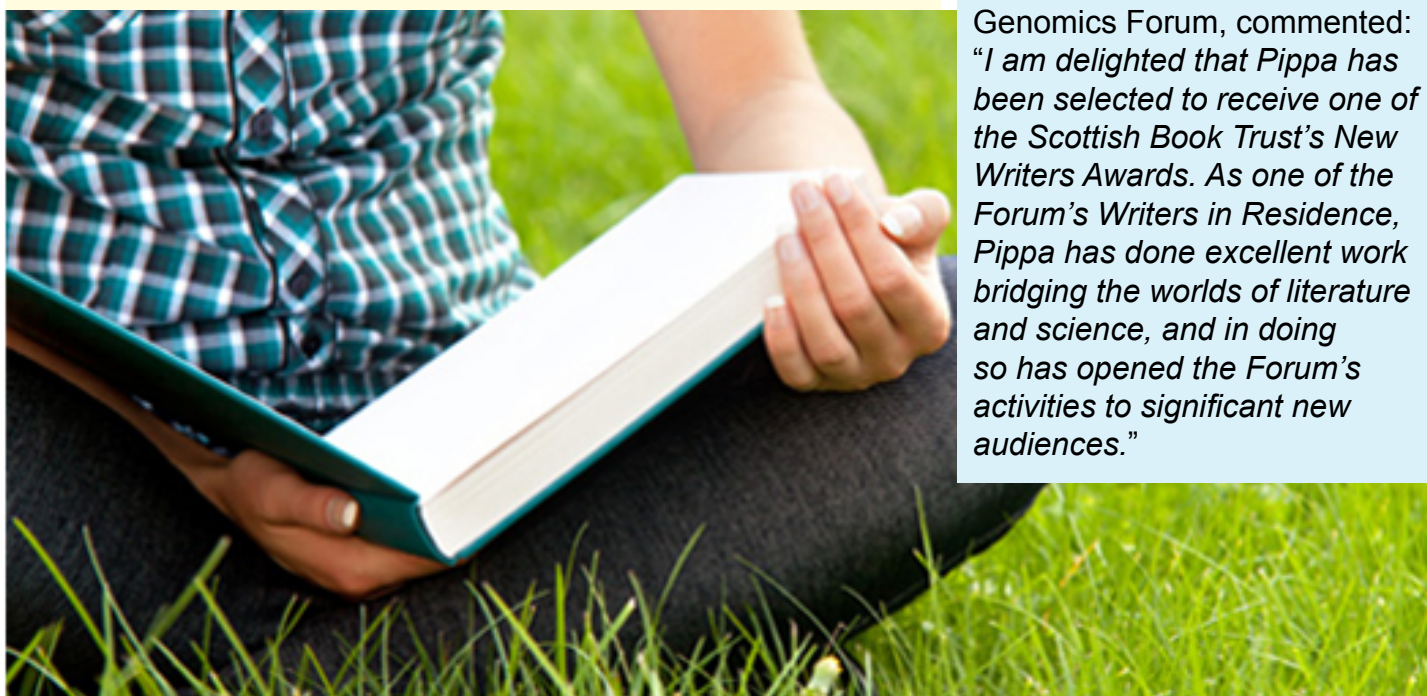
For further information, and to potentially contribute to the project, please visit the What Scientists Read website at <http://www.whatscientistsread.com/>.

Forum Writer in Residence wins Award

The ESRC Genomics Forum congratulates Pippa Goldschmidt – one of the Forum's Writers in Residence – on receiving a Scottish Book Trust New Writers Award 2012-13

Pippa took up a creative residency with the Genomics Forum in 2009. As well as writing articles for the Forum on how science is portrayed in literature, Pippa also organised successful poetry and short story competitions attracting international entries, and hosted workshops focusing on science and poetry.

Professor Steve Yearley, Director of the ESRC Genomics Forum, commented: *"I am delighted that Pippa has been selected to receive one of the Scottish Book Trust's New Writers Awards. As one of the Forum's Writers in Residence, Pippa has done excellent work bridging the worlds of literature and science, and in doing so has opened the Forum's activities to significant new audiences."*



Community

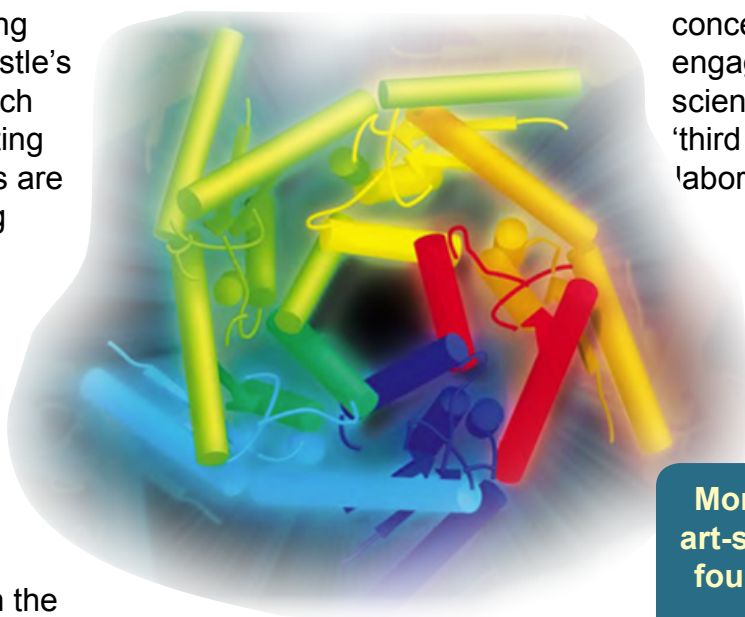
News from the Genomics Forum

At the interface between art and science

Four artists, two scientists and two social scientists have recently commenced their collaboration on producing visual artworks about genomics issues – and will write together about their experiences in doing so. Dr Matthias Wienroth, Dr Pippa Goldschmidt and Lisa Matthews coordinate this ‘research & creation’ art-science pilot project with a focus on photo-poetry.

Following the scoping workshop at Newcastle’s Lit & Phil on 17 March 2012, the collaborating artists and scientists are currently developing their ideas and will meet again at the Forum’s offices on 20 May 2012 to present and discuss process and outputs.

The work of artists and scientists within the auspices of the project informs



conceptual thinking about engagements of arts and sciences in an emancipated ‘third space’ between the laboratory and the studio.

More information on the art-science project can be found in the March 2012 issue of *the gen*.

News from Innogen



**Sarah
Cunningham-Burley**

Sarah Cunningham-Burley is an Academician of Social Sciences

We are delighted to announce that Sarah Cunningham-Burley, Professor of Medical and Family Sociology in the Centre for Population Health Sciences, has been elected as an Academician of Social Sciences.

Dr Virve Peteri

Postdoctoral Researcher of the Academy of Finland from the University of Tampere, will be a visiting fellow for the coming year. Her office is in Old Surgeons’ Hall. Virve is currently investigating how design is domesticated in office environments. She is also interested in how conceptions of future uses - and of users - shape the design of everyday things.

Community News from Innogen

Farewell Angela McEwan ...

Sadly, Angela McEwan left STIS and Innogen in April to move to the university Development and Alumni Office.

Angela worked in Innogen for eight years, latterly as its Centre Manager, a wide-ranging job that covered tasks like organising and running meetings, finance, making sure centre systems were in place, and also herding academics - a tough and highly skilled job.

Angela is a very well organised person and also a highly competent manager. During her time at Innogen she worked part-time towards



Angela McEwan

a Diploma in Administrative Management - she obtained a distinction and passed out top out of around 300 students. Among her legacies in STIS are the seminar programme system and the e-expenses system, for which we should all be grateful, given how quickly we now get our expenses. We wish her well and hope she'll be joining us for our periodic celebrations - some of which she organised, and all of which she enjoyed.

- Dave Wield

... Welcome Alyson Macdonald

We are delighted to welcome Alyson Macdonald, who has taken over the role handled so ably by Angela McEwan (see above). Alyson graduated from the University of St Andrews in 2004 with a degree in English, and has been working for the University of Edinburgh since 2006.



Alyson Macdonald

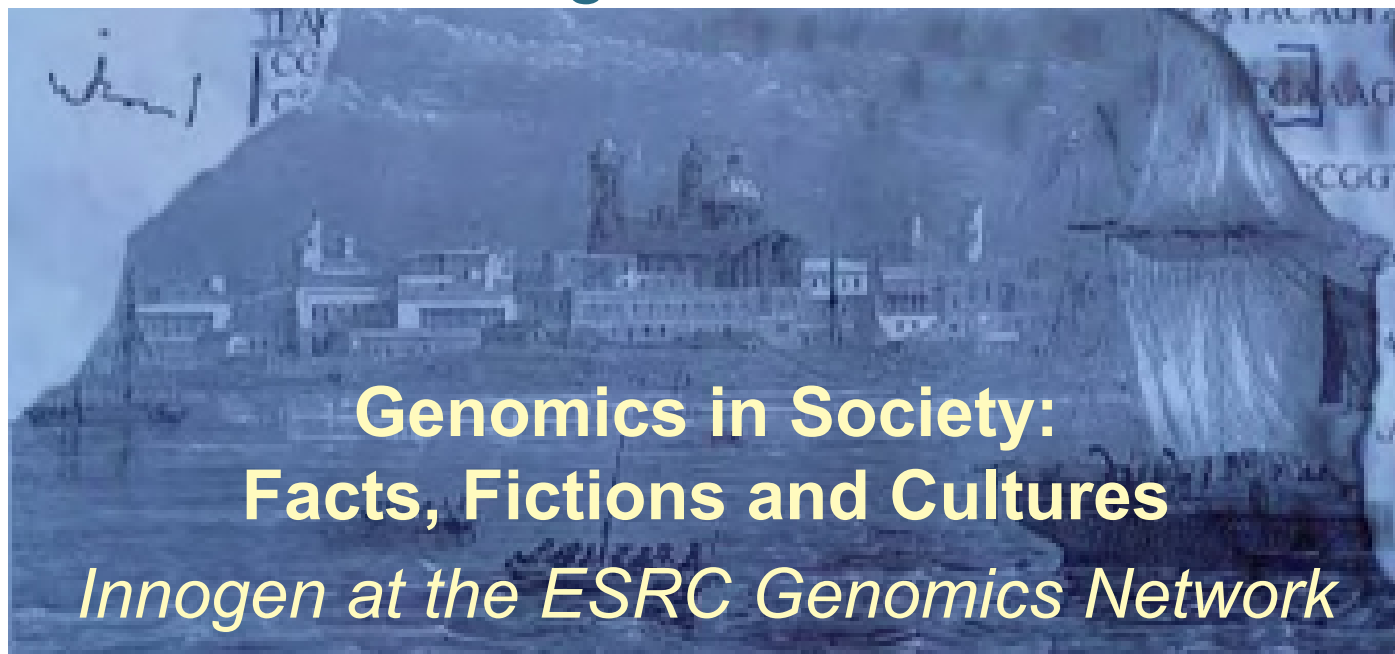
Most recently, she was a Research Administrator for three institutes in the School of Biological Sciences, where she provided support for research grants from the initial proposal through to the final report.

Alyson says: "So far, I've enjoyed my first month of working at Innogen, and am starting to learn my way around."

"I'm looking forward to working on the events that are coming up over the next few months, and helping the centre to move into "phase three" of its development."

Community

News from Innogen



Innogen was well represented at the ESRC Genomics Network annual conference held at the British Library, 23rd & 24th April 2012 - in fact, the largest group of attendees.

Gill Haddow spoke on Keeping it in the family: Relationships and genetic technologies in the UK. The dramatic changes in assisted reproduction and the medical technologies since the first IVF baby in the UK was born in 1978 have occurred alongside there have been significant social changes. There may exist an iterative process between family agency and genetic technologies: there is resistance as well as assimilation.

Jane Calvert & Daisy Ginsberg: presented the 'Synthetic Aesthetics', an exploratory interdisciplinary project, involving synthetic biology, social science, art and design, asking: 'how would you design nature?' Six synthetic biologists together with six artists and designers engage

with novel ways of imaging their work.

David Castle spoke in the Innogen session on Food securities: conflicts and controversies on the use of foresight and scenarios as a valuable method for decision making amidst uncertainty, and explored the potential for more closely linking an innovation systems perspective to food insecurity.

Two Edinburgh Innogen researchers spoke on the implications and potential of genetically modified animals. Corinna Gibbs spoke on practical and regulatory implications: since the first genetically modified (GM) animals emerged in the 1980's, advances in GM technologies

push the boundaries of regulatory frameworks. Smart regulation to deliver results in the least burdensome way should allow for innovation whilst meeting requirements to for safety, quality, and the legal and ethical ramifications.

Anne Bruce asked "Can genomics deliver solutions to reduce greenhouse gas emissions from cattle and sheep?" Methane is a potent greenhouse gas produced as sheep digest grass. It has been suggested that genomics can reduce methane production. However, sheep and beef farming in the UK is embedded in a range of different 'systems of production'; at the same time, methane emissions are viewed by farmers as a natural and inevitable product of sheep and beef farming.

Teaching

MSc in Science and Technology in Society

We have been busy in STIS designing a new taught MSc in Science and Technology in Society. The programme is intended for students wishing to develop a critical understanding of the role of science, technology and innovation in society, and places a strong emphasis on acquiring a practical appreciation of the latest approaches and insights from this vibrant field.

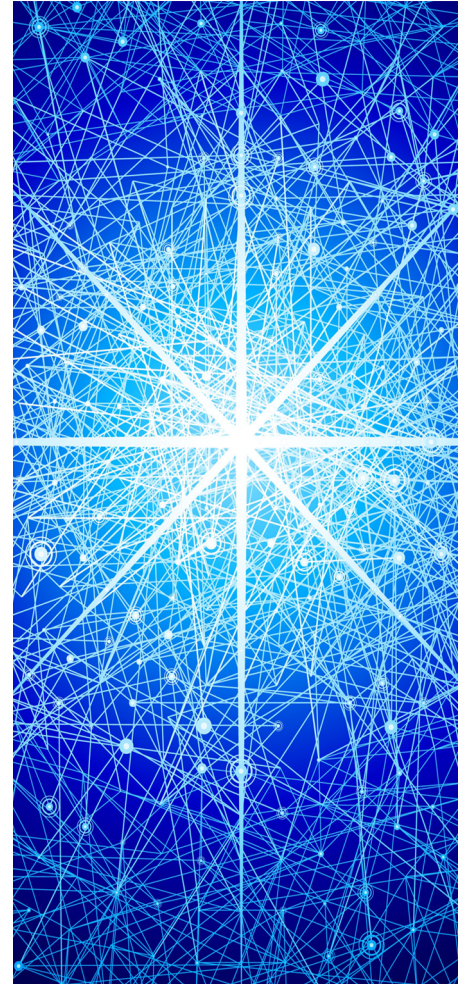
We're very excited about new programme, which is now open to applications for a September 2013 launch. We look forward to welcoming students to our vibrant community of scholars at Edinburgh, which has been

home to a leading centre of interdisciplinary research and teaching in the area of science, technology and innovation studies since 1964.

More information about the programme can be found at: http://www.sps.ed.ac.uk/gradschool/taught_masters/o_z/msc_in_science_and_technology_in_society.

You can also contact Sarah Parry, Programme Director MSc Science and Technology in Society at: Sarah.Parry@ed.ac.uk

The deadline for applications to this programme for September 2013 entry is 15th August 2013.



Sarah Parry

Bologna Compatibility

Like all University of Edinburgh Masters programmes, the degree is fully Bologna compatible, and is recognised across Europe and beyond under the principles of the Bologna framework. The programme comprises 180 Edinburgh credits, which are equivalent to 90 ECTS credits.

Alumni news

Elsa Davidson

MSc Science & Technology Studies 2010 - 2011
David Edge Studentship

Following the completion of my Masters in 2011 I have recently been appointed as Curator of Technology at National Museums Scotland. In this role I work with Dr Klaus Staubermann to curate, develop and make accessible the Technology collections.



Elsa Davidson

This includes collections care, acquisitions, exhibitions, research and publications. The Technology collections include civil, mechanical and electrical engineering, materials and material processing, power and energy technology and Scottish industry past and present. The power and energy collection, including nuclear power and renewables, will be one of my main concerns.

Throughout my Masters I examined and promoted the adoption of STS perspectives in museum contexts, particularly in relation to public engagement. My dissertation focused on the role of National Museums Scotland in the Dounreay Heritage Strategy which was designed to create a cultural legacy for the nuclear energy industry in response to decommissioning.

Jessica Williamson

MSc STPM 2007- 2008
Community Manager at Springboard

Bringing an economics background to the first whirl of the MSc Science & Technology Policy & Management programme, I had no idea I'd leave really enjoying and feeling comfortable with the tech industry.

Since STPM, I've juggled an assortment of projects related to tech startups and product launches, and I have been loving them all. I planned PR strategy for a new medical device released in Canada and the UK, organised events

for startups and investors, and then became North American Manager for the launch of a mobile security alarm. I've now crossed the border to become Community Manager at Springboard, an (intense) 13 week startup accelerator based in London and Cambridge.

For me, it's a dream job working with web and mobile startups, and the mindset from class debates has certainly been a fantastic setup for the business and tech adventures. On Twitter as @jessinblue.



Jessica Williamson

Books

Carbon Capture and Storage

Tough road ahead to realise the potential of CCS technology

CO₂ capture and storage (CCS) is the removal of carbon dioxide from the flue gas emissions of a power plant and its storage deep underground (1km +) in a porous rock formation. It has been advocated as a major part of the solution to the climate change problem, because it allows us to continue to use fossil fuels - which also makes CCS controversial.

While CCS is usually presented as a much-needed solution to the urgent problem of climate change, the authors of the new book argue that the present political and economic context is not conducive to its development.

Local communities in the Netherlands, Germany and

the USA have all campaigned against CCS projects in their neighbourhoods. Some environmental groups such as Greenpeace have been openly critical of CCS, while others - such as the Worldwide Fund for Nature (WWF) - see it as more desirable than continued carbon emissions from fossil fuels.

Governments have baulked at the high price tag attached to CCS; companies are very reluctant to take the risk of paying for its development without guarantees that they can recover the costs, or to take on the long-term liabilities associated with CO₂ storage in rock formations.

Until now, CCS policy has been dominated by a technocratic approach, moderated by the dominant neo-liberal ideology of the last three decades. Yet the dominance of these approaches is increasingly challenged as politicians struggle to create policy frameworks which favour 'cost-effective' low-carbon technological innovation. That problem is now being exacerbated by the budgetary cuts in European countries.

As social protest spreads and costs of CCS do not fall,

building social support for the technology will be crucial.

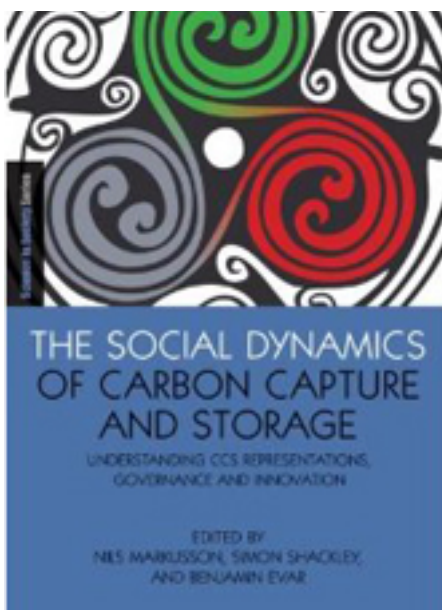
It is unlikely that CCS innovation will ever be a bottom-up process; it seems to require top-down, centralised co-ordination. Nevertheless, the history of technocratic innovation cautions against bold early technology-led solutions and favours a more cautious, gradual approach.

The book reviews how CCS got to its present juncture. It looks at key turning-points – such as the abandonment of the ocean storage option, the retreat from on-shore CO₂ storage in key European countries, the emergence of CO₂-enhanced oil recovery as the preferred way forwards for CCS in the USA, China and the Middle East.

The position of CCS in relation to key societal agendas, including sustainability, security, global governance and democracy itself may have to change, to renew the social support for the technology. The technology will continue to change in that process.

With contributions from an international set of social scientists, this book covers topics such as:

- how actors understand and present the technology



Books

- how the technology is and should be governed by policy and decision makers, and
- how to understand the processes of CCS innovation.

Markusson, N., Shackley, S. and Evar, B. (Editors) (2012) *The social dynamics of carbon capture and storage: Understanding representation, governance and innovation*, Routledge, London and New York.

One of the authors of this book, Nils Markusson, has recently been appointed as a research fellow at Oxford - see article on page 22.

Science, Technology and Society

An edited collection of articles about the Edinburgh approach to STS has been published in Chinese.

This book systematically introduces the Strong Programme and it is the first of its kind in the Chinese academic society. It is divided into two parts: the first part deals with some general issues about Strong Programme; the second provides some case studies.

This book is the second project of our Edinburgh Team (including Alumni, visiting scholars and visiting students from Taiwan and China).

Before this book, we have published three interviews in the journal of EASTS (East Asian Science, Technology and Society: An international Journal): "Go strong or go home: An interview with David Bloor", "Dropping the brand of Edinburgh School: An interview with Barry Barnes", and "Broadening the horizons of STS: An interview with Donald Mackenzie".

These interviews are in English and could be downloaded from <http://easts.dukejournals.org>. In order to introduce Edinburgh School to Chinese readers, our team translated these interviews into Chinese and published in STM (Taiwanese Journal for Studies of Science, Technology and Medicine

<http://stm.ym.edu.tw/>).

Hopefully, we will soon publish another collection on Edinburgh School, including the aforementioned interviews and some other pieces.

Science, Technology and Society: the social constructionist theory, sociology of science and the sociology of knowledge perspective

科技與社會：社會建構論、科學社會學和知識社會學的視角

Edited by Chih-Tung Huang (Morgan), Ruey-Chyi Hwang and Zeng-feng Li

<http://www.books.com.tw/exep/prod/booksfile.php?item=0010535776>

This collection is dedicated to the memory of Stewart Russell



Books

Technologies of Inclusion

The Information Society is an evolving project, with new 'ensembles' of social practices and of information and communication technologies (ICTs) emerging all the time.

But not everyone is equally included in this project.



Breaking new ground with its focus on inclusion, and drawing on an extensive body of European research, *Technologies of Inclusion: Gender in the Information Society* analyses a range of strategies which succeeded in attracting more women and girls as users or designers of ICTs.

This reveals a set of underlying dynamics – what the authors call technologies of inclusion – by which different strategies

work. It also highlights new gender-ICT ensembles which challenge long-held notions of technology as a masculine domain.

This book is a must for scholars interested in shifting gender-technology relations and for practitioners interested in effective digital inclusion. Indeed, for anyone interested in the evolving project of the Information Society.

A timely and important volume in gender and technology studies ... empirical richness in combination with cutting edge theoretical orientation

- Professor Ulf Mellström, Centre for gender research, University of Karlstad

This timely and important volume summarises much of the contemporary scholarly discussions within gender and technology studies. The uniqueness of the book is due to its empirical richness in combination with cutting edge theoretical orientation.

As this group of experienced scholars have been able to cross-fertilise in-depth case studies with a long history of theoretical development in GTS, they are able to produce what must be counted as the most inclusive standard scholarly reference for many years to come

- Professor Ulf Mellström, Centre for gender research, University of Karlstad

ISBN 978-82-519-2846-5

Technologies of Inclusion: Gender in the Information Society

Knut H. Sørensen, Wendy Faulkner and Els Rommes

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Fax: + 47 73 59 84 94 • E-mail:
bestilling@tapirforlag.no

The book can also be ordered from the website:

<http://www.tapirforlag.no/en>.

This book arises from the European Union funded SIGIS project: Strategies of Inclusion: Gender and the Information Society, a five country study led by Robin Williams.

Calendar

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Sunday 7th October - Tuesday 9th October

Artefacts Consortium Conference, National Museum of Scotland

See article *page 13* or visit

<http://www.artefactsconsortium.org/Meetings/MeetingsCurrentF.html>

15:00 Sunday - 17:00 Tuesday

Grand Auditorium, National Museum of Scotland

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Monday 8th October

STIS Weekly Seminar

The role of science in regulatory decision-making: lessons from ecological risk assessments of genetically engineered crops

Speaker: Alan Raybould, Syngenta

15:00

Seminar Room, Old Surgeons' Hall

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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28	29	30	31	1	2	3

Tuesday 9th October - Thursday 11th October

Innovation in Information Infrastructures (III) Workshop

See article *page 5* or visit

<http://iiied2012.wordpress.com/about/>

10:00 Tuesday - 16:30 Thursday

The University of Edinburgh Business School, 29 Buccleuch Place, Edinburgh

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Monday 15th October

STIS Weekly Seminar

Science and politics in the construction of the Kariba Dam

Speaker: Lawrence Dritsas, Science Technology and Innovation Studies

15:00

Seminar Room, Old Surgeons' Hall

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Monday 22nd October

STIS Weekly Seminar

Public engagement in science and STS engagement in policy; Reflections from Australia

Speaker: Nicola Marks, University of Wollongong

15:00

Seminar Room, Old Surgeons' Hall

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Thursday, 25th October 2012

NMS and ISSTI Understanding Technology Public Lecture

Model Ships, Model Science and Test Tank Replication

Speaker: Don Leggett, University of Kent

Please register with Maureen Kerr on 0131 247 4274 or m.kerr@nms.ac.uk.

Admission is free but seats are limited.

These lectures are held in memory of Dr Stewart Russell

Calendar

October 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
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Monday 29th October

STIS Weekly Seminar

Studying knowledge in policy: what do we mean by 'knowledge'?

Speakers: Steve Sturdy and Richard Freeman,

STIS/Politics and International Relations

15:00

Seminar Room, Old Surgeons' Hall

November 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Monday 5th November 2012

STIS Weekly Seminar

Nudge, Nudge, Wink, Wink: Governing Bio-Innovation in the 21st Century

Speaker: Peter Phillips, University of Saskatchewan

15:00

Seminar Room, Old Surgeons' Hall

November 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Monday 12th November 2012

STIS Weekly Seminar

Open Innovation in the life sciences: towards a new paradigm?

Speaker: Iain Gillespie, ESRC Innogen Centre

15:00

Seminar Room, Old Surgeons' Hall

November 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Monday 19th November 2012

STIS Weekly Seminar

'Saving the Lives of Our Dogs': The Development of Canine Distemper Vaccine in Interwar Britain

Speaker: Michael Worboys, University of Manchester

15:00

Seminar Room, Old Surgeons' Hall

November 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Monday 26th November 2012

STIS Weekly Seminar

In search of animals' emotions

Speaker: Mara Miele, Cardiff University

15:00

Seminar Room, Old Surgeons' Hall

Recent Publications

LI, Zheng-Feng, HWANG, Ruey-Chyi and HUANG, Chih-Tung: *Go strong or go home: an interview with David Bloor*. East Asian Science, Technology and Society, 4, 3, 2010, p.419- 32 doi:10.1215/s12280-010-9148-8

HWANG, Ruey-Chyi and others: *Dropping the brand of Edinburgh School : an interview with Barry Barnes*. East Asian Science, Technology and Society, 4, 4, 2010, p.601-17 doi:10.1215/s12280-010-9156-8

HWANG, Ruey-Chi, LI, Zheng-Feng and HUANG, Chih-Tung: *Broadening the horizons of STS: an interview with Donald Mackenzie*. East Asian Science, Technology and Society, 5, 4, 2011, p.543-54 doi:10.1215/18752160-1458297

LAWLESS, Christopher and FAULKNER, Alex (editors): *Material worlds: intersections of law, science, technology and society*. Wiley-Blackwell, 2012 ISBN: 978-1-4443-6152-0

SPINARDI, Graham: *Road-mapping, disruptive technology, and semiconductor innovation: the case of gallium arsenide development in the UK*. Technology Analysis and Strategic Management, 24, 3, March 2012 , p.239-51 doi: 10.1080/09537325.2012.655410

SPINARDI, Graham: *The limits to 'spin-off': UK defence R & D and the development of gallium arsenide technology*. British Journal for the History of Science, 45, 1, March 2012, p.97-121 doi: 10.1017/S000708741100063X

CAMPAGNOLO, Gian Marco: *The role of management consultants in long-term ERP customization trajectories: a case from the Italian local government*. In : Viscusi, Gianluigi et al (eds) Phenomenology, organizational politics and IT design: the social study of information systems. IGI Global, 2012. pp.176-95.

POLLOCK, Neil and WILLIAMS, Robin: *Strategic ethnography and the biography of artefacts*. In: Viscusi, Gianluigi et al (eds) Phenomenology, organizational politics and IT design: the social study of information systems. IGI Global, 2012. pp.221-250.

VISCUSI, Gianluigi, CAMPAGNOLO, Gian Marco and CURZI, Ylenia (Eds). *Phenomenology, organizational politics and IT design : the social study of information systems*. IGI Global, 2012. 978-1466603035