

ISSTI

THE INSTITUTE FOR THE
STUDY OF SCIENCE
TECHNOLOGY AND INNOVATION
www.issti.ed.ac.uk

newsletter

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2015 ISSTI Retreat. 8-9 June.

Newbattle Abbey, Dalkeith, Midlothian.

Miguel García-Sancho **secures BBSRC award** to study the cloning of Dolly the sheep within the tradition of animal genetics research in Scotland



Grants and
Awards 2

- News 6
- ISSTI members engage.. 9
- Community 11
- Recent Publications 14

Special features

ISSTI retreat report..... 3

AsSiST UK launch..... 6

ISSTI Haiku 2



“Historicising Dolly”, a history of animal genetics research in Scotland

The Biotechnology and Biological Sciences Research Council and the University of Edinburgh have agreed to co-fund the project “Historicising Dolly: an Edinburgh-centred case study of the emergence of animal biotechnology” led by Miguel García-Sancho.



This 18-month grant will place the cloning of Dolly the sheep within a long-standing tradition of animal genetics research in Scotland. The birth of Dolly at the Roslin Institute in 1996 was an intermediate step in a research programme that sought the production of transgenic animals that secreted therapeutic proteins in their milk. The programme built on a consolidated history of animal breeding research that started in the late 19th century with the establishment of the first dedicated department at the University of Edinburgh. The grant of £200K is led by Miguel Garcia-Sancho and employs Dmitriy Myelnikov as a postdoctoral research associate. It benefits from the collaboration of Ann Bruce and Steve Sturdy.

ISSTI Haiku

We plan to publish in the ISSTI website the Haiku written by network members



Haiku is a descriptive form of poetry. Originating in Japan, haiku poetry typically discusses subjects from the natural world.

Drawing inspiration from the “Dissertation Haiku” website (<https://dissertationhaiku.wordpress.com/>), we would like to encourage ISSTI members to write a Haiku about their research and email it to Meritxell Ramírez-i-Ollé

(m.ramirez-olle@sms.ed.ac.uk). The only rule for writing haiku is its structure (three lines of “5-7-5” syllables respectively): A few examples of haiku written by ISSTI members are:

*Why collaborate?
I did find that I like to
collaborate too.*

Niki Veurmeulen

*Rocket science is
out-spinning innovation.
True wealth creation?!*

Matjaž Vidmar

*Trees tell of climate,
Scientists tell us of trees,
I tell you science.*

Meritxell Ramírez-i-Ollé

*Livingstone’s lake,
That he never discovered.
There he goes again!*

Lawrence Dritsas

*Energy, ‘nvironment:
“There’s nothing really ‘social’
about them, is there?”*

Mike Kattirtzi

2015 ISSTI retreat

The annual ISSTI retreat is the place where the community of Edinburgh scholars and research students meet to exchange ideas and develop new perspectives. For the 2015 Retreat (8 – 9 June 2015) we came back again in the beautiful setting of Newbattle Abbey. 60 people took part over two days of discussion and debate. This was the 30th Anniversary of the publication of the *Social Shaping of Technology* perspective, edited by Donald MacKenzie and Judy Wajcman - and we were delighted to welcome Judy back as our guest keynote speakers. This provided an opportunity for a panel debate on **The past, present and future for Science, Technology and Innovation Studies**.

Paolo Quattrone

**Chair in Accounting Governance and Social Innovation
University of Edinburgh Business School.**

I would like to examine this theme in relation to my own discipline (accounting and business studies) where STS has had a significant impact in the past helping to deconstruct the supposedly scientific nature of accounting calculations. Critical and interdisciplinary accounting studies (as much as STS) are now mature enough in exploring alternative forms of representation beyond positivism. The question I pose is: *can we be positive, i.e. propose alternative forms of governing organizations and*

societies and making policies, without being positivist? The answer to my mind is a resounding yes. Going back to the recent and ancient history of accounting on the role of visualisations may help. In some of my own work I have argued that visualizations are not good or bad in relation to their ability to provide accurate representations but whether they force mediation, interrogation, speculation and judgment. The bright future of STS and accounting studies may be in their past, where inscriptions



Prof Quattrone

were to be studied for the effects that they generated and the gaps they left when representing. Exploring these gaps may open the way to a new form of conceiving the visual.

Donald MacKenzie

Professor of Sociology, University of Edinburgh.



Donald MacKenzie

We were asked to address what has most surprised us over the past thirty years, and what challenges we feel that technology studies faces. My answer to the first question is very simple. Thirty years ago, science and technology studies (STS) felt like a specialised area. Having done my PhD applying

the sociology of scientific knowledge (SSK) to mathematical statistics, and getting a job in a sociology department, I felt that SSK was perhaps a bit too specialised for that context. That was part of the reason I switched to work on technology.

I don't think a young STS scholar within sociology nowadays would feel that the field might be thought of as a narrow specialism. Of course, its influence isn't pervasive across all disciplines, but it is taken far more seriously in much of the social sciences and humanities than I would ever have imagined back then.

In terms of current challenges, I will simply mention one I face myself. For the last fifteen years I've been researching financial markets. A

background in SSK is useful to that research in some respects. It sensitises you to how interesting it can be to research how facts such as Libor (London InterBank Offered Rate) are constructed.

On the other hand, I've had consciously to sensitise myself to the great importance in finance of the economic in the ordinary, grubby, monetary sense: who pays whom, for what. (This wasn't something that ordinary SSK research paid much attention to.) My own research on Libor, for example, wasn't as insightful as it should have been, because I missed the importance of a key monetary relation: the fact that the income of the brokers in the interbank market came from the dealers in the banks.

Robin Williams

Director, Institute for the Study of Science, Technology and Innovation, University of Edinburgh.



Robin Williams

It is useful to look back as it would be all too easy to underestimate how far our thinking has changed over the last thirty years. There has, in particular, been a profound shift in our conception of technology – initially conceived by STS writers in terms of ‘systems’

that were essentially stable once designed – to technologies as complex configurations. Technology, initially largely synonymous with hardware, is today analysed as a ‘heterogeneous assemblage’ of diverse elements (component devices; manuals, operating procedures, vendors, adopters and intermediaries) configured together. This shift is partly inspired by changes in the social and material architecture of prevalent technologies, involving an opening out of innovation to new players and locales – with the increasing role of intermediate and final users.

Another feature concerns the concatenation of scales, undermining previous distinctions between macro-, meso and micro-analysis. In this respect we may be becoming thoroughly Latourian! Detailed interactionist

studies have been extremely successful. However we also note efforts to engage with multiple loci and moments of design, and to integrate historical and contemporary ethnographic studies.

Alongside these developments we note the erosion of boundaries presumed to exist empirically between science and technology but also conceptually between the ‘technical’ and the ‘social’, economic and political. Science and technology are becoming profoundly socialised. We see new kinds of relationships emerging between STIS and technoscientific communities – for example the close relationships colleagues have established with Synthetic Biologists, supported by the involvement of an increasing array of scholars (including for example Law, Accountancy and Design).

Knut Sørensen

Professor in the Department of Interdisciplinary Studies of Culture

Norwegian University of Science and Technology

“What is the future for social construction of technology scholarship?”. The publication of Pinch and Bijker’s seminal paper on the Social Construction of Technology provoked fierce debates between competing analytical traditions, but 30 years later these debates may have lost some of their intensity. Today should scholars be searching for unified theory or should we continue with our current practice which we could characterise as “pragmatic constructivism”? Pragmatism was perhaps a necessary feature of the growth of our field, its engagement with other disciplines and with multiple

areas of science and technology. Notwithstanding differences between diverse contributing analytical traditions we can identify a shared concern to deconstruct sociomaterial practices, a focus on users and use as well as technoscientific specialists, and an interest in the governance of technoscience.

Knut went on to discuss “11 tenets of pragmatic constructivism” and his thoughts about the future of technology studies. There is not space to summarise this here. However the entire seminar can be seen online:



Prof Sørensen

https://www.youtube.com/watch?v=K_gNJYC-y2M.

2015 ISSTI retreat



As part of our increasing range of online resources we are delighted to be able to bring you videos of some of the main presentations in the 2015 ISSTI retreat.

Christina Boswell, Steve Yearley : **Quantification of Public Life** - <https://www.youtube.com/watch?v=kISSpAlByCI>

Willem Halffman : **The Brutality of Distance: How Data Die in Transport** - https://www.youtube.com/watch?v=WvDtbbvYF_U

Winston Kwon: **The Emergence of the AOC System: From Containment Strategy to Economic Tool-** <https://www.youtube.com/watch?v=DvgWpuzsD2s>

James Fleck: **Risk, Uncertainty, Ambiguity and Ignorance** - https://www.youtube.com/watch?v=M8lGhz5Q_rl

Lawrence Dritsas: **Mapping Out Our Research Clusters** - <https://www.youtube.com/watch?v=tfAnZo9K2kY>

Nikhil Agarwal: **Why Data Triangulation is Critical in Qualitative Research** - <https://www.youtube.com/watch?v=Km3dJ-U1I9c>

Chihwei Yeh: **How to Study 'Ideograph' in Science Policy Documents?** - <https://www.youtube.com/watch?v=wl1pldNI8-M>

Matjaz Vidmar: **Seeing 'Progress'? – Visualising Biographies of Innovation** - <https://www.youtube.com/watch?v=8BtXaGDawBg>

Niki Vermeulen: **From Reductionism Towards Integration: Systems Biology as a Fashion in Science and Policy?** - <https://www.youtube.com/watch?v=uQbHJHMBtew>

James Stewart: **Crowdsourcing and Citizen Science: Emerging 'Participatory Knowledge Practices** - <https://www.youtube.com/watch?v=G566ZtzuZpc>

Nicola Osborne: **What Does it Mean to Build a Citizen Science Project** - <https://www.youtube.com/watch?v=RoxQTcsfGI0>

Mary Brennan: **Fridge Talk - Experimental Methodologies in Mixed Method Social Science Studies of Everyday Practices** - <https://www.youtube.com/watch?v=oblUPQJAUo>

Mark Winskel: **Constructing Energy Futures: From Optimisation to Diversity** - https://www.youtube.com/watch?v=PogW9_c_JpQ

The playlist in its entirety can be found here: bit.ly/1WDIfUA

(It will run through all videos, starting from the top of this list.)



Foundation of the Association for Studies in Innovation Science and Technology (AsSIST UK)

Andrew Webster (York) and Robin Williams welcomed 100 delegates representing over 30 academic organisations and senior staff from *Nature*, the ESRC, the Wellcome Trust, Palgrave Macmillan and the BSHS to the founding conference for a new organisation representing scholars in our field – AsSIST UK (SPRU, University of Sussex 25th August 2015).



AsSIST UK plenary session

The meeting approved the Statement of Foundational Principles which establishes the aims, organisation and broad values of the Association. Four break-out sessions discussed core themes that inform STIS as a broad interdisciplinary field, and how these help define the priorities and practice – including policy goals – of the Association.

A closing plenary session captured the principal ideas emerging from the sessions and provided an opportunity to suggest and agree on more strategic as well as practical steps for the future.

The launch event was the culmination of many months of planning and discussion by the

Development Group (DG). The STIS community has many strong and long-standing informal links and makes a major contribution to the intellectual agenda within UK, as seen for example through the high quality of REF returns and impact case studies associated with the field.

The growth of the field has created the opportunity and the need for a more inclusive and more proactive organisation today when the apparatuses for research training and research funding are being transformed. For example, the next round of the ESRC Doctoral Training Centres will include Calls for 'Centres for Doctoral Training' which will not be discipline-based

(as most DTCs are) but be thematic and require cross-disciplinary work on themes that bridge the social/natural sciences and Arts/Humanities.

The DG hope that the new national association will build on these links in a more formal way and in particular provide an important platform through which we can influence debate at national level, feed into and respond to research council initiatives, and support the new generation of STIS scholars – especially PhDs and postdocs – as well as engage with national and international bodies, such as EASST.

Statement of Foundational Principles

The meeting received and adopted the Association's core principles which are:

- to represent our emerging field in discussions with academic communities, with research and education institutions and funding and policy bodies, and with wider publics
- to support the development of research and scholarship and related activities and bring this work to the attention of interested audiences
- to support trans-disciplinary collaboration and engagement with scientists, engineers, government, public and industry
- to support education and training and capacity development
- to explore mutually beneficial interaction and collaboration with other bodies in the field with cognate purposes

The newly established Development Group will tackle a number of immediate priorities, including:

- Publicly announce the establishment of the Association and its aims, role and values.
- Establish a national email list of contacts, a register of members and a website.
- Liaise with other cognate associations, such as BSHS, and networks, such as Science In
- Public and establish working relations with them
- Support the establishment of the proposed Postgraduate Forum on Science in Society and make this a semi-independent PGR group attached to AsSIST-UK
- Liaise with the ESRC, Wellcome Trust and other key research funding agencies to discuss how the Association might secure funding for specific initiatives (such as a Summer School) organise a national Conference in 2016.

The link to the report on the August 25th Launch event can be found
<https://www.york.ac.uk/satsu/assist-uk/>



AsSIST UK theme session

Prof Catherine Lyall new Head of STIS Subject Group

Last July 2015 Prof Catherine Lyall took over from Prof Steve Sturdy who had served since 2012.



Prof Lyall

Catherine Lyall is Professor of Science and Public Policy at the University of Edinburgh. She is

an experienced science policy researcher and evaluator of knowledge exchange and interdisciplinary research activities who has acted as a consultant to a number of public bodies including the UK Economic and Social Research Council (ESRC), Scottish Funding Council, and the European Commission. She has just returned full-time to STIS following a secondment with the Institute for Academic Development to contribute to the university's strategy for interdisciplinary research during which time she led a study for the Higher Education Academy on interdisciplinary provision in learning and teaching.

Her career at Edinburgh has progressed from Research Development Officer to Personal Chair via a series of research fellowships, two Deputy Director positions within the ESRC Genomics Network, a role in knowledge exchange, and a spell as Associate Dean for Research Careers.

Her publications include *Interdisciplinary Research Journeys* (with Ann Bruce, Joyce Tait and Laura Meagher, Bloomsbury Academic, 2011), which will come out in paperback in October, and a recent paper in *Futures* that explores the UK research community's engagement with 'transdisciplinarity' (with Laura Meagher and Ann Bruce, 2015).

Gauging public reactions to cultured red blood cells

Dr Emma King and Professor Catherine Lyall have recently summarised their project findings in a short briefing note (<http://bit.ly/1isIqC5>) circulated to research participants following the conclusion of their contribution to the Novosang project (www.novosang.co.uk).

This large multi-disciplinary partnership, led by the University of Glasgow, is working to create a supply of red blood cells that can be produced in a laboratory. These so-called 'cultured red blood cells' may eventually provide an alternative to using blood from donors. This study involves teams from different UK universities and the Scottish and Irish National Blood Transfusion Services and NHS Blood & Transplant.

In conducting focus groups and interviews to gauge potential public reactions to the prospect of cultured red blood cells, the people to whom the

project team spoke were generally positive about their potential use. They were less anxious about the use of embryonic stem cells in the initial development work but were concerned about the involvement of commercial companies in blood production.

Participants showed great trust in, and attachment to, the transfusion services in the UK, but were unaware that the transfusion services were involved in research. The project's findings show that, in giving information to the public about this novel method of making blood, the transfusion

services may need to be more transparent about the disadvantages of the current transfusion system. Without knowing the reasons why it might be desirable to replace blood from donors with a laboratory-derived product, participants questioned why money was being spent on finding an alternative.

This work stream was funded by the Scottish Funding Council. Since completing this project, Emma King had moved to a new postdoctoral position at the University of Stirling.

ISSTI members engage



ISSTI members are always on the go discussing their research with scholarly communities around the world and with stakeholders, policymakers and wider publics. We take the opportunity in this newsletter to briefly report on some of our recent engagements.

Prof Robin Williams invited to the European Sociological Association Conference.

He participated alongside Professor Paul Edwards in the semi-plenary panel “Modelling Uncertainties, Producing Differences” on the 12th European Sociological Association Conference in Prague (25-28 August 2015)



Robin Williams at the ESA conference

Prof Robin Williams and Prof Paul N. Edwards (University of Michigan) were invited to present a sub-plenary at the European Sociological Association Conference (Prague 25-28 August 2015) around the theme of “Modelling Uncertainties, Producing Differences”.

Paul Edwards employed the concept of “knowledge infrastructure” to characterise the networks of people, devices, and institutions that generate, maintain, and iterate different temporal frames regarding the risks posed by climate change.

Robin's contribution explored the new knowledge infrastructures that have emerged to tackle market uncertainties. He discussed

the role of “industry analysts” like Gartner Inc and its signature output Magic Quadrant that ranks vendors in particular fields - drawing upon his forthcoming book with Neil Pollock (see page 16 in this newsletter). This provided a contrasting example of future-orientated knowledge produced, consumed and validated in contexts of uncertainty.

Dr Christine Knight gives a plenary presentation in Helsinki

Her presentation “Twenty-first century fat: The many meanings of fat in popular food and nutrition culture” at the “Fatty Problem” was part of the symposium at the University of Helsinki, Finland, on 26 May 2015.



Dr Knight

programme on “Fatty foods and fat bodies: Diversification of ideals and practices in healthy eating”, led by Professor Johanna Mäkelä, and was attended by roughly 200 people, including public health researchers and nutrition professionals.

Together with Dr Helen Bridle (Heriot Watt University), Dr Christine Knight has founded a Food & Drink Working Group within the Royal Society of

Edinburgh Young Academy of Scotland.

This group will focus on cross-disciplinary and cross-sector networking and events, and public engagement, to increase the impact of food and drink research in Scotland. Christine also co-convenes the Food Researchers in Edinburgh network, FRIED. Email christine.knight@ed.ac.uk for further details of either network and upcoming events.

The symposium represented the culmination of a 4-year work

ISSTI members engage



Prof Paolo Quattrone gives a “TED talk” and Dr Xiaobai Shen participates in “Henry Stewart Talks”.

In his TEDxOxbridge talk on 'Governing societies', Prof Quattrone compared corporate and collegiate forms of governance. Dr Shen offered a talk about innovation in China.



Prof Quattrone

In his talk, **Prof Quattrone** takes us back in history and shows examples in the non-corporate spaces to solve one of today's most challenging and intellectually stimulating management problems (available online: <https://www.youtube.com/watch?v=6D8Ddmvz9v8>). Prof Quattrone's research addresses questions related to the

emergence and diffusion of accounting and managerial practices in historical and contemporary settings. He is particularly interested in researching the relationships between material accounting visualisations and decision-making, strategizing and governance.

Dr Shen is Senior Lecturer in International and

Chinese Business and Director, MSc International Business and Emerging Markets. Currently, Xiaobai is working on the intellectual property- IP regimes in China. Her lecture is available online (available online, http://hstalks.com/main/view_talk.php?t=2990&r=881&c=250

Prof Jan Webb delivers a public lecture in Hamburg

She talked about 'The Sociology of Energy Markets' in the Centre for Globalisation and Governance at the University of Hamburg.



Prof. Webb

Jan's lecture discussed the sociological perspective on energy market responses to the major risks of our dependence on fossil fuels. She commenced with a brief review of the interdependence of modern societies and high carbon systems, before outlining a material sociology of energy and economic agency. She referred back to Max Weber's analysis of the centrality of politics and power in markets, and to Karl Polanyi's appraisal of the embedding of economic exchange in social institutions. Such a material sociology

suggests that current methods for attributing value in energy markets are resulting in patterns of investment which jeopardise the long term public interest in sustainable energy. Using UK energy systems as an example, she drew on empirical material from her research on sustainable heat and cities to illustrate the argument.

The lecture can be viewed [here](http://www.sps.ed.ac.uk/_data/assets/pdf_file/0004/176269/Hamburg_WEBB_Sociol_of_Energy_V2_compressed.pdf) http://www.sps.ed.ac.uk/_data/assets/pdf_file/0004/176269/Hamburg_WEBB_Sociol_of_Energy_V2_compressed.pdf

Introducing the Engineering Life team

We are delighted to introduce two newly appointed Research Fellows. They will be working on the European Research Council funded project on synthetic biology led by Jane Calvert. The project's two objectives are: to investigate the movement of ideas, practices and promises from engineering into the life sciences, and to examine the ways in which social scientists are being mobilised as part of this endeavour.

Dr Deborah Scott



Dr Scott

Deborah comes to Edinburgh from the USA, where she recently completed her PhD in Geography at Rutgers University. Her dissertation was on the co-production of international soft law and knowledge of biofuels and synthetic biology at the UN Convention on Biological Diversity. As part of the Engineering Life project, she plans to focus on ideas of what governance can and should be among synthetic biologists, social scientists, and decision-makers - particularly tracing how an engineering approach aligns with the framing of and responses to uncertainties. She is also very

interested in exploring relationships of synthetic biology and outer space science and policy. (Debora.scott@ed.ac.uk).

Dr Dominic Berry



Dr Berry

Dominic trained in the history and philosophy of science at the University of Leeds, focussing in particular on C20th biological sciences and institutions involved with agricultural plant breeding. Last year he completed the cultivatinginnovation.org project, which attended to the roles played by intellectual property in contemporary European agriculture (making use of a particular historical perspective). He is now a member of the EnLife project, placing synthetic biology in a broader historical context.

His current research interests include science-industry relations, the rise of statistics in the C20th (really just its importance for biologists and the Fisher-Gosset debate!), public-private science institutes, genetics, bio-objects, intellectual property, and the philosophy of experiment. Dominic very much enjoyed writing about himself in 3rd person.

Find him on:

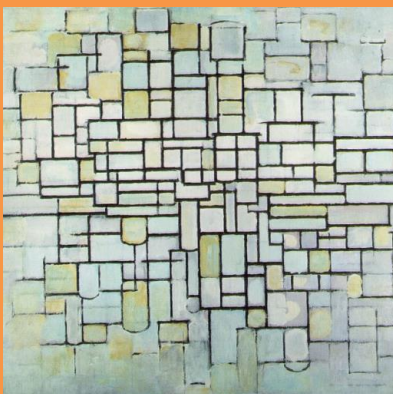
Academia.edu

<https://idcore.academia.edu/DominicBerry>

LinkedIn

<https://uk.linkedin.com/pub/dominic-berry/71/543/25a>

Previous project 2014-2015:
'Cultivating Innovation'
www.cultivatinginnovation.org



Welcome to the "Engineering Life" blog
<http://blogs.sps.ed.ac.uk/engineering-life/2015/09/23/welcome-to-the-engineering-life-blog-3/>

Welcome to Neil Tarrant



Dr Tarrant

Neil is a Teaching and Research Fellow. His current research focusses on the ecclesiastical censorship of science and medicine in sixteenth-century Italy. He will be teaching the undergraduate course History of Medicine. Neil holds degrees from the University of Edinburgh, Imperial College and the University of Sussex. He has previously worked in the Centre for the History of Science, Technology and Medicine at Imperial College and the History Department at the University of York. (Contact: ntarrant@staffmail.ed.ac.uk).

Welcome to Dmitriy Myelnikov



Dr Myelnikov

Dmitriy joined STIS as a postdoc to work on the BBSRC-funded Historicising Dolly project with Miguel Garcia-Sancho. He has recently completed a PhD on the history of transgenic mice at the Department of History and Philosophy of Science, University of Cambridge. Before that, he had been trained as a geneticist. His broader interests lie in the history of post-war biosciences, history of science communication and studies of relationships between humans and other animals.

Congratulations to Prof Charles Raab



Prof Raab

Prof Charles Raab has been appointed Co-Chair of the newly formed Digital Ethics Panel of the National Police Chiefs' Council. He will be seeking to establish usable frameworks for digital practice. Prof Raab is Professorial Fellow and Director of CRISP (Centre for Research into Information, Surveillance and Privacy). His main general research interests are in public policy, governance and regulation, and more specifically in information policy.

Congratulations to Martyn Pickersgill



Dr Pickersgill

Dr Martyn Pickersgill (Usher Institute for Population Health Sciences and Informatics) was promoted to Reader in the Social Studies of Biomedicine this summer, and was also awarded the Henry Duncan Medal for Social Sciences from the Royal Society of Edinburgh. He recently concluded his Wellcome Trust Biomedical Ethics Fellowship on the sociology of clinical psychology, and in June began his new 5 year Wellcome Trust University Award on 'Beyond Diagnosis? Novelty, Need and the Normative in Twentieth Century Psychiatry'.

Congratulations to our completed PhD students

A list of completed PhDs, dating back to 1972 is here http://www.stis.ed.ac.uk/research/completed_phds



Evi Giannatou, “Exploring the sociotechnical dynamics of the Creative Commons licenses: the case of open-content filmmakers”.

Diana Velasco, “Innovation systems in developing contexts: A top-down and bottom-up approach to the Colombian National System of Innovation and the coffee, flower and sugarcane production chains”.

William Jenkins, “New perspectives on Edinburgh Lamarckians and other transformist thinkers. Evolutionary debates in the Athens of the North, 1790–1844”.

Eun Sun Kim, “Facilitating Innovation in SMES: The Case of Public Intermediaries in South Korea”.

Vasilis Tsiatouras, “Mathematics and the USSRC: Organising a discipline”.

Alison Wheatley, “Good Soldiers, Good Guys, and Good Parents: The Meanings of Donation and Donated Tissue in the Context of the Danish Donor Sperm Industry”.

Eva Hoffman, “Computer Science in Afghanistan”.

Our lively community of PhD students continues to make great strides on many fronts:

Mike Kattirtzi was nominated for a teaching award last semester, for Science and Society 1B.

The Brocher Foundation has selected two of our PhD students, **Natalia Nino** and **Sara Valencia** as recipients of the hosting scholarship. They will be doing a short residency at the Brocher Foundation that will allow them to write up part of their thesis dissertations.

Matjaž Vidmar received a “Most Valued Participant” prize at SpaceUp GLIC conference in Munich in June. This is the

community Matjaz is researching and presenting back was very informative and exciting for him. Matjaz was also amongst the 20 “soapbox” pitches included in the programme of UK Space Conference (the key event for the Space Sector in the UK).



Matjaž Vidmar

Some Recent Publications



Campagnolo G, Pollock N and Williams R (2015) "Technology as we do not know it: the extended practice of global software development", *Information and Organization*, Volume 25, Issue 3, July 2015, pp. 150–159.

García-Sancho M. (2015) "Animal breeding in the age of biotechnology: the investigative pathway behind the cloning of Dolly the sheep", *History and Philosophy of the Life Sciences*, Volume 37, Issue 3, pp. 282–304.

Lee L, Williams R, Sheikh A (2015) "How does joint procurement affect the design, customisation and usability of a hospital ePrescribing System?", *Health Informatics Journal*, August.

MacKenzie, D (2015) "Mechanizing the Merc: The Chicago Mercantile Exchange and the Rise of High-Frequency Trading", *Technology and Culture*, Volume 56, Issue 3, pp. 646–675.

Mozaffar H, Williams R, Morrison Z, Cresswell K, Bates DW, Sheikh A (2015) "The Evolution of the Market for Commercial Computerized Physician Order Entry and Computerized Decision Support Systems for Prescribing", *J Am Med Inform Assoc* Sept.

Pickersgill, M., Martin, P. A. and Cunningham-Burley, S. (2015) "The Changing Brain: Neuroscience and the Enduring Import of Everyday Experience", *Public Understanding of Science*, Volume 24, Issue 7, pp. 878–892.

Pickersgill, M. and Hogle, L. (in press) "Enhancement, Ethics and Society: An Empirical Medical Humanities Agenda for the Social Studies of Enhancement", *Medical Humanities*.

Pickersgill, M. (2015) "Epigenetics, Uncertainty, and the Politics of (Sociological) Knowledge Production", *The Sociological Review* (special issue on Biosocial Matters: Rethinking the Sociology-Biology Nexus in the Twenty-First Century¹).

Pollock N and Williams, R (2015) "Venues of High Tech Prediction: Presenting the Future at Industry Analyst Conferences", *Information and Organization*, Volume 25, Issue 2, pp. 115–136

Quattrone, Paolo (2015) "Governing Social Order, Unfolding Rationality and Jesuit Accounting Practices: A procedural Approach to Institutional Logics", *Administrative Science Quarterly*, Volume 11, 2015, pp 1–35.

Ramírez-i-Ollé, Meritxell (2015). "Rhetorical Strategies for Scientific Authority: a Boundary-Work Analysis of 'Climategate'", *Science as Culture*, June. (available online).

Rodrigues, E and Boswell, C. (2015) "Policies, Politics and Organizational Problems: Multiple Streams and the Implementation of Targets in UK Government" *Policy & Politics*.

Rodrigues, E. and Boswell, C. et al "The Effects of Targets and Indicators on Policy Formulation: Narrowing Down, Crowding Out and Locking In" in Andrew J. Jordan and John R. Turnpenny (eds) *The Tools of Policy Formulation: Actors, Capacities, Venues and Effects*. Edward Elgar: Cheltenham, UK.

Yearley, S. and Sundqvist, G. et al (2015) "Formalisation and separation: a systematic basis for interpreting approaches to summarizing science for climate policy", *Social Studies of Science*, Volume 45, Issue 3, pp. 416–440

Yearley, S. (2015) "Sociology and politics of risk" in *International Encyclopedia of Social and Behavioral Sciences 2nd Edition* ed James D Wright (Oxford: Elsevier) pp. 706–10

Yearley, S. and Boswell, C et al. (2015) "The effects of targets and indicators on policy formulation: narrowing down, crowding out and locking in", in *The Tools of Policy Formulation: Actors, Capacities, Venues and Effects*, ed A Jordan and J Turnpenny (Cheltenham: Edward Elgar 2015), pp. 225–44

Yearley, S. (2015) "Considering convergences in technology and society", in *Knowing New Biotechnologies: Social Aspects of Technological Convergence*, ed M Wienroth and M E Rodrigues (Abingdon: Routledge 2015), pp. 191–95

Yearley, S., Fletcher, I. and Lyall, C. (2015) "Mapping the UK Government's genome: analysing convergence in UK policy one decade into the twenty-first century", in *Knowing New Biotechnologies: Social Aspects of Technological Convergence*, ed M Wienroth and M E Rodrigues (Abingdon: Routledge 2015), pp. 92–104

Some recent publications



Knowing New Biotechnologies. Social Aspects of Technological Convergence

Eugenia Rodrigues and Matthias Wienroth (eds) – Oxford University Press

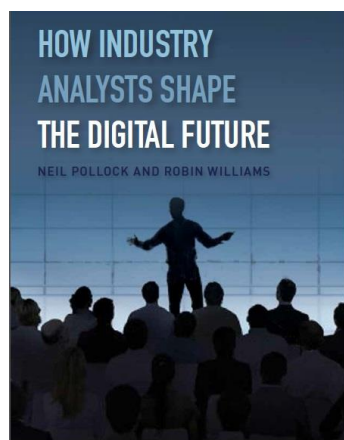
The areas of personal genomics and citizen science draw on – and bring together – different cultures of producing and managing knowledge and meaning. They also cross local and global boundaries, are subjects and objects of transformation and mobility of research practices, evaluation and multi-stakeholder groups. Thirdly, they draw on logics of 'convergence': new links between, and new kinds of, stakeholders, spaces, knowledge, practices, challenges and opportunities.

This themed collection of essays from nationally and internationally leading scholars and commentators advances and widens current debates in Science and Technology Studies and in Science Policy concerning 'converging technologies' by complementing the customary focus on technical aspirations for convergence with the analysis of the practices and logics of scientific, social and cultural knowledge production that constitute contemporary technoscience. In case studies from across the globe, contributors discuss the ways in

which science and social order are linked in areas such as direct-to consumer genetic testing and do-it-yourself biotechnologies. This book explores the following themes: (i) ways of understanding the dynamics and logics of convergences in emergent biotechnologies; (ii) governance and regulatory issues around technoscientific convergences ; (iii) democratic aspects of converging technologies – lay involvement in scientific research and the co-production of biotechnology and social and cultural knowledge.

How Industry Analysts Shape the Digital Future

Neil Pollock and Robin Williams - Oxford University Press.



STIS Industry analysts are in the business of shaping the technological and economic future. They attempt to 'predict' what will become the next big thing; to spot new emerging trends and paradigms; to decide which hi-tech products will win out over others and to figure out which technology vendors can deliver on their promises.

In just a few short years, they have developed a surprising

degree of authority over technological innovation. Yet we know very little, if anything about them. This book seeks to explain how this was achieved and on what this authority rests. Who are the experts who increasingly command the attention of vendor and user communities? What is the nature of this new form of technical and business knowledge?

How Industry Analysts Shape the Digital Future offers the first book length study into this rarely scrutinized form of business expertise. Contributions to this volume show how, from a small group of mainly North American players which arose in the 1970s, Gartner Inc. has emerged as clear leader of a \$6 billion industry that involves several hundred firms worldwide. Through interviews and observation of Gartner Inc. and other industry analyst firms, the book explores how these firms

create their predictions, market classifications and rankings, as well as with how these outputs are assessed and consumed.

The book asks why many social scientists have ignored the proliferation of these new forms of management and technical expertise. In some cases scholars have 'deflated' this kind of business acumen, portraying it as arbitrary knowledge whose methods and content do not deserve enquiry. The valuable exception here has been the path-breaking work on the 'performativity' of economic, financial or accounting knowledge. Drawing upon recent performativity arguments, the book argues the case for a Sociology of Business Knowledge.

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