

SATSU

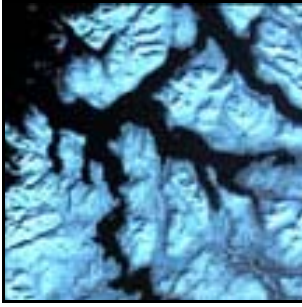
Science and Technology Studies Unit

Activities during
2004

Science & Technology
Governance

Sociology of
the Biosciences

Mobilities,
Informatics & Space



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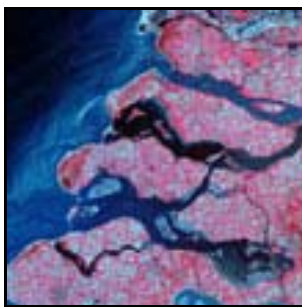
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Prof. Mike Michael (University of London)

Dr Annemiek Nelis (University of Amsterdam)

Dr Brian Rappert (University of Exeter)

Prof. Arie Rip (University of Twente)

Dr Richard Tutton (University of Nottingham)

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Activities During 2004

The Science and Technology Studies Unit specialises in understanding the complex dynamics of change in contemporary S&T networks. SATSU has sought to explore the socio-technical co-construction of knowledge, artefacts and public policy.

The Unit was initially established in the late 1980s to critique public/private links between university and industrial actors.

In subsequent years, the SATSU portfolio has expanded considerably to encompass a widening field of critique applied to technology and science.

This document provides a brief overview of SATSU's work during 2004

2004

Director's Introduction

This past year has seen a number of changes in the Unit. The most important components of any group are its members, and this year we had to bid a fond farewell to some colleagues while welcoming others. Special thanks go to Richard Tutton and Gillian Robinson for all their work in the Unit. Richard not only made a major contribution to our research on genetics but also to our knowledge of single malt whisky and was a brilliant organizer of our seminar series—the SATSU 'Brown Bags', throughout his time with us. Gillian gave excellent administrative and informational support to the Unit. We also said goodbye to two doctoral students, Ragna Zeiss and Yuwei Lin, who (respectively) completed their theses on the STS of water quality standards and the innovation dynamics of open source software. Both have secured research posts, coincidentally at the University of Amsterdam. All will be greatly missed as friends and colleagues.

At the same time we have been delighted to welcome three new Research Fellows. Darren Reed, who is researching dependability in ICT systems, and who has considerable expertise in Human Computer Interaction (HCI) and the ethnographic analysis of technology use, joined us early in the year. Towards the close of the year we also appointed Lena Eriksson from Gothenburg for work on a new stem cells project and Conor Douglas from Vancouver to work on a project on pharmacogenetics. These and other new grants are described later in the Review.

We also consolidated our Research Associate membership and have been delighted to secure the collaboration of internationally respected colleagues working in STS.

Our very successful Marie Curie programme attracted another four European students to the Unit during 2004, and the programme will continue throughout 2005, its final year of operation. Our postgraduate activity continues through our research degree students and a new MSc in New Medical Technologies and Society, scheduled to begin in 2005, which will provide a rigorous foundation in social science research exploring social, cultural and organizational implications of new developments in medical and health technologies.

Plans for future Marie Curie activity will be developed during 2005.

2004 also saw us consolidate our links with various international networks and activities, notably the PRIME EC Network of Excellence on policy research in Europe, a new STS network on 'expectations', the Australian based bioethics/bioscience network BHENELSI, and the pan-European ITEMS health technology network. All have been important vehicles for broadening formal links and pursuing new grant opportunities.

Closer to home we were successful co-bidders to a new network on Technology and Social Action funded by the AHRB/EPSRC whose aim is to foster active dialogue and collaboration among innovative ICT designers and social movement activists. We have also been part of the Seville-based Institute for Prospective Technological Studies (IPTS) study on the Future of Pharmacogenetics in the European Union.

These networks and the invitations we receive to give opening addresses and conference papers mean that there has been a wide range of UK and overseas meetings where members have been able to represent and discuss the Unit's core research programme, summarised in the three priority areas on the cover of this Review. Even so, the Unit found time to undertake other work of national importance commissioned by external bodies, such as leading on the ESRC's new Research Ethics Framework. All these activities are reported in full on our web site.

2005 promises to be busier than ever with new students, grant applications, international workshops on expectations, and risk, and preparing for the RAE within the wider Department of Sociology. The Director will be in his last year as programme director of the ESRC/MRC Innovative Health Technologies Programme, acting as Special Advisor to the House of Commons Health Select Committee, preparing three volumes for publication and working with colleagues on new projects in the Unit. Time for one of Richard Tutton's single malts!

Prof. Andrew Webster

Core Research Areas

SATSU's key intellectual strengths lie in three related fields of enquiry, each of which serves as a basis of empirical research activity:

Science and Technology Governance

Work in the Unit seeks to understand how it is that developments in science and technology become objects for governance, both formally through policy-making and indirectly in terms of the governance of innovation. A number of activities contribute to this theme:

- ***Quality assured science: the role of standards in stabilising stem cell research***
Funding: ESRC. Status: Continuing. Contact: Lena Eriksson
- ***PRIME (Policy Research in the Move Towards a European Research Area)***
Funding: European Commission. Status: Continuing. Contact: Andrew Webster
- ***ITEMS - (Identifying Trends in European Medical Space).***
Funding: European Commission. Status: Continuing. Contact: Andrew Webster.

Sociology of the Biosciences

The Unit has maintained a consistent and sizeable research portfolio on the biosciences, with projects on pharmacogenomics, tissue engineering, stem cells, and xenotransplantation.

- ***Haematopoietic Stem Cells: The Dynamics of Expectations in Innovation***
Funding: ESRC. Status: Continuing. Contact: Nik Brown
- ***Variability in response to warfarin: a prospective analysis of pharmacogenetic and environmental factors***
Funding: Department of Health. Status: Continuing. Contact: Graham Lewis
- ***Pharmacogenomics, diagnostic tests and clinician acceptance***
Funding: ESRC. Status: Continuing. Contact: Graham Lewis
- ***Pharmacogenetics and pharmacogenomics: State-of-the-art and potential socio-economic impact***
Funding: European Commission. Status: Continuing. Contact: Graham Lewis

Mobilities, Informatics and Space

SATSU has a continuing research interest in the spatial reorganisation of social life arising in the context on new Information and Communication Technologies (ICTs) including:

- ***Time, Dependability and Trust***
Funding: ESRC/EPSRC. Status: Continuing. Contact: Darren Reed
- ***Sorting Places Out – Classifications and its Consequences in an E-Society***
Funding: ESRC. Status: Continuing. Contact: Brian Woods

Research Grants and Funding

Sorting Places Out? Classifications and its Consequences in an E-Society ESRC E-Society Programme, £97,858 (2004-2006). The project looks at the use of IT based marketing systems for classifying neighbourhoods, exploring the way in which ICTs are increasingly playing a role in the zoning and categorization of space. Contact: Brian Woods and Roger Burrows. Collaborators: Nicholas Gane (Brunel University), Nick Ellison and Simon Parker (University of Durham), and Michael Hardy (University of Newcastle-upon-Tyne).

BLISS - Constructing public confidence in ICT systems: time, dependability and trust ESRC/EPSRC (2004-2006). This project examines dependability/trust relations and how these relate to the temporal properties of ICT systems in public environments, specifically a real-time information for managing and using public (bus) transport. Contact: Darren Reed, Nik Brown or Andrew Webster. Collaborators: Craig Gulliford (ACIS), Matthew Ward (City of York Council), Peter Wright and Andrew Monk (University of York).

Haematopoietic Stem Cells: The dynamics of expectations in innovation ESRC, £229,895 (2004-2007). The project builds on work in the Unit and elsewhere on the 'dynamics of expectations' in science and technology innovation – and in this case looks at the changing perspectives on the future of HSCs for treating cancer (since the 1950s) and now their use in regenerative medicine. Contact: Nik Brown. Collaborators: Paul Martin and Alison Kraft (University of Nottingham), Arie Rip (University of Twente) and Joan Fujimura (University of Wisconsin, Madison).

Quality assured science: the role of standards in stabilising stem cell research, ESRC, £120,000 (2004-2006). This interdisciplinary project brings together social and bio-scientists to examine the development of Embryonic

Stem Cells (ESC) research and innovation, specifically with regard to establishing new quality control and safety standards, developed and overseen by intermediary institutions. Such institutions bridge between the science base and clinical and commercial arenas and work to stabilise the present and enable the future development of the field. Contact: Andrew Webster or Lena Eriksson. Collaborators: Peter Andrews & Harry Moore (University of Sheffield).

Pharmacogenomics, diagnostic tests, and clinician acceptance: ESRC Science in Society programme, £158,000 (2004-2006). The study examines the extent to which doctors are likely to incorporate pharmacogenomics into clinical practice, and analyses the factors influencing uptake, focusing on cancer, asthma, cardiovascular disease, psychiatry and general practice, and explores the role that public health systems are having on introduction. In broader terms, the research will help us understand ways in which innovation occurs and new medical technologies become embedded in doctors' practice. Contact: Graham Lewis. Collaborator: Andy Hall (Northern Institute for Cancer Research, University of Newcastle). Details at: <http://www.york.ac.uk/res/pgx/>

Variability in response to warfarin: a prospective analysis of pharmacogenetic and environmental factors Department of Health, £842,000 (2004-2007). This large-scale prospective study on pharmacogenetics will determine the complex factors affecting patient response to warfarin, a widely used anti-coagulant drug in order to develop an improved prescribing algorithm and cost effectiveness data. The SATSU component will analyse the views and experiences of patient and clinical staff with regard to introduction of pharmacogenetics into the clinical setting, helping to identify how this technology might be introduced into "real world" clinical situations, the extent of likely demand and uptake, and thera-

peutic areas most likely to produce health benefits. Contacts: Graham Lewis and Andrew Webster. Collaborators: Munir Pirmohamed (PI), Dyfrig Hughes, Kevin Park Cheng Hok Toh, Tom Walley, Paula Williamson (University of Liverpool), David Bentley, Panos Deloukas and Jane Rodgers (Sanger Institute, Cambridge), Ann Daly and Farhad Kamali (University of Newcastle upon Tyne), David Fitzmaurice (University of Birmingham), and Vanessa Martlew (Royal Liverpool and Broadgreen University Hospital Trust). Details at: <http://www.york.ac.uk/res/pgx/>

Pharmacogenetics: state-of-the-art and potential socio-economic impacts European Science and Technology Observatory/Institute for Prospective Technological Studies (2004-2005). The study is examining regulatory frameworks for pharmacogenetics in Europe, USA and Japan, part of a wider European Commission study analysing the current state of pharmacogenetics development and clinical incorporation from a European perspective. Contact: Graham Lewis.

Developing a National Framework for Social Sciences Research Ethics, ESRC £46,000 (2003-2004). The project was commissioned by the ESRC to develop a new Research Ethics Framework for UK social science, with stakeholder interviews, regional meetings, discussion papers, and a dedicated website. The proposal and accompanying report was delivered in May 2004, with revisions, dissemination and collaborative development ongoing. Contact: Graham Lewis. Collaborator: Mary Boulton (Oxford Brookes University). Project website: www.york.ac.uk/res/ref/

Members of the Science and Technology Studies Unit

Research Graduates

Luke Cowie Thesis title: *Medicine: its meaning, management and value.*

Maria Eugénia Rodrigues Thesis title: *Science, New Technologies and the Publics: the Environmental Monitoring Systems.*

Yuwei Lin Thesis title: *The Innovation Dynamics of Free/Libre Open Source Software (FLOSS) Systems: Practices, Culture and Competition.*
Doctorate awarded.

Ragna Zeiss Thesis title: *Standards and their (changing) environments. The mobility of drinking water quality standards.* Doctorate awarded.

SATSU – Marie Curie Training Site *New Genetics / New Society*

Marie Curie Training Site SATSU continues to host Marie Curie Fellows from a number of member states, under our highly successful European Commission Marie Curie Training site award: 'New Genetics/New Society? Integrating Science, Society and Policy'. The award, which continues through 2005, funds up to 75 months of post graduate training and supervision. Contact: Nik Brown.

Marie Curie Research Fellows in 2004

Antoinette Rouvroy - European University Institute, Florence, Italy.

Bettina Bock. V. Wulfingen - University of Bremen, Germany.

Kadri Simm - University of Tartu, Estonia.

Sakari Tammimen - University of Helsinki, Finland.



Activities during 2004

Publications

Books

Brown, N. and Webster, A. (2004) *New medical technologies and society – Reordering Life*, Cambridge, Polity Press

Tutton, R. (with Corrigan, O.) (2004) (eds) *Genetic Databases: Socio-ethical Issues in the Collection and Use of DNA*. London, Routledge.

PhD theses

Zeiss, R. (2004) *Standardising Materiality - Tracking Co-constructed Relationships between Quality Standards and Materiality in the English Water Industry*, University of York.

Lin, Y. (2004) *Hacking Practices and Software Development: A Social Worlds Analysis of ICT Innovation and the Role of Open Source Software*, University of York.

Chapters

Nik Brown

Brown, N. (2004) Containing Contradictions: Debating Nature, Controversy and Biotechnology, Glasner, P (ed) *Reconfiguring Nature: Issues and Debates in the New Genetics*, Ashgate, Aldershot, 259-280.

Graham Lewis

Lewis, G. (2004), Tissue collection and the pharmaceutical industry: investigating corporate biobanks in Tutton R. and Corrigan O. *Donating, Collecting and Exploiting Human Tissue*, Routledge, London, 181-202.

Lewis, G. (with Pirmohamed, M.) (2004), Implications of Pharmacogenetics and Pharmacogenomics for Drug Development and Health Care, in Mossialos, M., Mrazek, M. & Walley, T. (eds), *Regulating the cost and use of pharmaceuticals in Europe*, Open University Press, Maidenhead, 278-296.

Paul Rosen

Rosen, P. (2004) Up the vélorution: bicycle subcultures and technological change, in Eglash, R. et al (eds) *Appropriating Technology: Vernacular Science*

and *Social Power*, University of Minnesota Press.

Rosen, P. (2004) Production and culture in the global bicycle industry, in Lyth, P. and Trischle, H. (eds), *Prometheus Wired: History, Globalisation and Technology*, Aarhus University Press.

Bettina v. Wülfingen

Wülfingen v, B. B. (with Ernst, T., Borrmann, S. and Guidehus C. P. (2004) Wissenschaft und Macht. Eine Einführung, in Ernst, T, Wülfingen, v. B B, Borrmann, S, and Guidehus C P, (eds) *Wissenschaft und Macht (Science and Power)*, Münster, Westfälisches Dampfboot, 7-22.

Journal articles

Nik Brown

Brown, N. and Michael, M. (2004) Risky Creatures: institutional species boundary change in biotechnology regulation, *Health, Risk and Society*, 6, 3, 207-222.

Brown, N. (with Michael, M.) (2004) The Meat of the Matter: Grasping and judging in xenotransplantation, *Public Understanding of Science*, 13, 379-397.

Graham Lewis

Lewis, G (with Webster, A., Martin, P. and Smart, A.) (2004) Integrating pharmacogenetics into society: in search of a model, *Nature Reviews Genetics*, 5, 7-13.

Yuwei Lin

Lin, Y. (2004) Custom Debian Distribution and Diverse Requirements of Software, *Community Technology Review*, Winter, 53.

Lin, Y. (2004) Contextualising Knowledge-Making in Linux User Groups, *First Monday* 9 (11).

Lin, Y. (2004) Introduction: FLOSS at Large, *First Monday* 9 (11).

Lin, Y. (2004) Epistemologically Multiple Actor-Centered Systems: or EMACS at work! *Ubiquity* 5(1).

Darren Reed

Reed, D.J. and Monk, A. (2004) Using familiar technologies in unfamiliar ways: learning from the

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old about the new. *Universal Access in the Information Society (UAIS)*, 3, 114-121.

Reed, D.J. (2004) What recreational telephone conferencing can teach us about the future of mass communications. *Interactions*. XI, 63-67.

Reed, D.J., Baxter, G. and Blythe, M. (2004) (eds) Conference Proceedings: Living and Working with Technology. *Twelfth European Conference on Cognitive Ergonomics (ECCE-12)*, Sep 12-15.

Richard Tutton

Tutton, R. (2004) 'They want to know where they came from': population genetics, identity, and family genealogy, *New Genetics and Society*, 23 (1) 105-120.

Andrew Webster

Webster, A. (2004) Health Technology Assessment: a Sociological Commentary on Reflexive Innovation, *International Journal of Technology Assessment in Health Care*, 20 (1), 1-6.

Webster, A. (2004) Risk, science and policy: researching the social management of uncertainty, *Policy Studies*, 25 (1), 5-15.

Webster A. et al. (2004) Integrating Pharmacogenetics into Society: In Search of a Model, *Nature Reviews Genetics*, 5, 663-69

Brian Woods

Woods B. and Watson, N. (2004) In Pursuit of Standardization: The British Ministry of Health's Model 8F Wheelchair 1948-1962, *Technology and Culture*, 45 (3), 540-568.

Woods B. and Watson, N. (2004) A Glimpse at the Social and Technological History of Wheelchairs, *International Journal of Therapy and Rehabilitation*, 11 (9), 407-410.

Reports and Working Papers

Webster, A. Brown, N., Lewis G. (with Boulton, M.) (2004) *The Proposed ESRC Research Ethics Framework*, May.

Webster, A. Brown, N. Lewis, G (with Boulton, M.) (2004) *The Proposed ERC Research Ethics Frame-*

work. Developing a Framework for Social Science Research Ethics. Report to the ESRC, April.

Webster, A, Brown, N. and Lewis, G (with Boulton, M.) (2004) *Crossing boundaries: social science, health and bioscience research and the process of ethics review*. Discussion Paper 1, ESRC Research Ethics Framework Project, Available at <http://www.york.ac.uk/res/ref/documents/>

Lewis, G., et al. (2004) *The international dimension to research ethics: the significance of international and other non-UK frameworks for UK social science*. Discussion Paper 2, ESRC Research Ethics Framework Project, May 2004. Available at <http://www.york.ac.uk/res/ref/documents/>

Brown, N. et al (2004) *Social science research ethics in developing countries and contexts*. Discussion Paper 3, ESRC Research Ethics Framework Project, May 2004. Available at <http://www.york.ac.uk/res/ref/documents/>

Boulton, M. et al (2004), *Implementing the ESRC Research Ethics Framework: The Case for Research Ethics Committees*. Discussion Paper 4, ESRC Research Ethics Framework Project, May 2004. Available at <http://www.york.ac.uk/res/ref/>

Selected Conference Papers & Presentations

Nik Brown, Alison Kraft and Paul Martin, *From promissory pasts to promissory presents – the bloody history of stem cell expectations*, ITEMS Network Conf., Coimbra, Dec 2004

Nik Brown, *Novel temporalities: The emergence of 'the new' in 'the new genetics'* EASST/4S conference, Paris, Aug 2004

Nik Brown, *Institutional Hybrids - transpecies boundary change and biotechnology regulation*, invited speaker at the Centre for Family Research, University of Cambridge. June 2004.

Nik Brown and Andrew Webster, *Questioning the 'the new' in new medical technologies*, CESAGen Conference, Royal Society, London, March 2004.

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Luke Cowie, *Meaning & Medicine: The importance of non-clinical interpretation of drugs*, SATSU Seminar, York, Feb 2004.

Graham Lewis et al., *Commercial and clinical development of pharmacogenetics*, poster presentation, 1st Hull York Medical School Research Conference, Willerby, 11 Feb 2004.

Graham Lewis, *Tissue collection and the pharma industry: corporate involvement in genetic databases*, invited speaker, Genetic Databases, Royal Society, London, 8 June 2004.

Graham Lewis, *Developing a Framework for Social Science Research Ethics* - invited paper, ESRC Strategic Directions, ESRC Research Methods Festival, Oxford, 1-3 July 2004.

Graham Lewis, *Pharmacogenetics and 'personalised medicine': regulation and the introduction of individualised therapy into clinical practice*. 4S/EASST Conference, Paris, 25-28 August 2004.

Yuwei Lin, *Has Software Development Ever Been Lost in Translation? - From Local Epistemologies to Cosmopolitan Expertise*. 4S/EASST, Paris, 25-28 Aug 2004.

Yuwei Lin, *Hybrid Innovation: The Dynamics of Collaboration between the Public and the Private in the Free/Libre Open Source Software (FLOSS) Innovation System*. Linux-Tag 2004 Conference, Karlsruhe, 23-26 June.

Yuwei Lin, *Epistemologically Multiple Actor-Centered Systems: or, EMACS at work!* 3rd Oekonux conference, Vienna, Austria, 20-23 May.

Darren Reed, D.J. *The Flow-test: a method for understanding the good conversation*. Games and Social Networks: A Workshop on Multiplayer Games. British HCI 2004, 6 Sep.

Maria Eugénia Rodrigues & Steve Yearley, *Citizens and environmental monitoring*, Social Policy Group, Environment Agency, Bristol, 17 Dec.

Maria Eugénia Rodrigues, *Innovations in participatory technology for environmental monitoring – an initial sociological assessment*, Risk & Regulation Student Research Conference, Centre for Analysis of Risk and Regulation, LSE, London, 16-17 September.

Maria Eugénia Rodrigues, *Elements of Monitoring: how to bridge assessment, technologies and participation*, 4S/EASST Conference, Paris, August 25-28.

Andrew Webster, *Reflections on gene banks and IHTs*, Generation Scotland Edinburgh, January.

Andrew Webster, *Social Science and a Post-genomic future?*, invited speaker, CESAGen Conference, Royal Society, London, March.

Andrew Webster & Nik Brown, *New Medical Technologies: meaning and change*, BSA Annual Conference, York, March.

Andrew Webster, *Opening the Black Bag*, Biobanks International Conference, Invited Opening Plenary, University of Vienna, March.

Brian Woods, *Elements of Wheelchair History*, Technology and the Body Conference, Canada Science and Technology Museum, Ottawa, Canada, 4-6 November.

Brian Woods & Nick Watson, *Disconnected Technologies: tensions between the medicalization and the politicization of wheelchairs during the 20th century*, CHSTM, University of Manchester, 28 Oct.

Brian Woods and Nick Watson, *Wheelchairs as Political Machines*, Healthy Innovation Workshop, University of Manchester, 8-10 July.

Brian Woods, Nick Watson & Donald MacKenzie, *A Historical Sociology of the Wheelchair*, poster presentation at First Hull, York Medical School Research Conference, Willerby, 11 February.

Ragna Zeiss, *Knowledges of materiality within an English water company*. STS Spring School *Sites of Knowledge Production*, Uni. of Basel, Switzerland, 10 March.

Ragna Zeiss, *Investigating the object status of a water sample*. Paper presented at EGOS (European Groups for Organization Studies) conference, Ljubljana, Slovenia, 1-3 July.

Ragna Zeiss, *The safety of our drinking water - or how standards and materiality co-produce notions of public proof*. Paper presented at EASST/4S conference, Paris, France, 26 August.

Ragna Zeiss, *Water Quality Contested. The Localisation and Materialisation of Drinking Water Quality Standards*. SHOT (Society for the History of Technology) Annual Meeting, Amsterdam, Netherlands, 8 Oct.

Bettina Bock v. Wülfigen, *Scenarios of Love and Genes – The Germans Too Late Again?* SATSU Seminar Series, York. Nov 2004.



THE UNIVERSITY of York
Department of Sociology
Science and Technology Studies Unit

MSc **NEW MEDICAL TECHNOLOGIES AND SOCIETY**
FOR GRADUATES IN SOCIOLOGY
HEALTHCARE PRACTITIONERS
GRADUATES IN MEDICAL SCIENCES

APPROACHES TO THE SOCIOLOGY OF MEDICAL TECHNOLOGY
UNDERSTANDING NEW REPRODUCTIVE TECHNOLOGIES
MEDICAL BIOINFORMATICS: CHANGE AND IMPLICATIONS
NEW BODIES: TRANSPLANTATION, PROSTHETICS AND IDENTITY
END OF LIFE TECHNOLOGIES: THE MANAGEMENT OF DYING
SOCIAL SCIENCE RESEARCH METHODOLOGIES FOR MEDICINE

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S A T S U
Science and Technology Studies Unit
http://www.york.ac.uk/depts/soci/c_mamt.html

Medical technologies are increasingly at the centre of new changes in both the social and physical body. This MSc is designed for those with an interest in the sociology of medicine and healthcare.

The course covers a wide range of sociological and anthropological literature on medical innovation with a special focus on the body, reproduction, health, ageing and dying. Crucially, it applies social science research to healthcare organisation, policy and regulation. The course is for sociology graduates and healthcare practitioners interested in the social science of medicine.

Its primary aims are:

- to explore key perspectives in the Sociology of Health and Illness, Anthropology, History of Medicine, and Science and Technology Studies
- to provide a rigorous foundation in social science research drawing on a range of approaches which are broadly transferable
- to provide a rigorous training for further research and professional development

Contacting SATSU

SATSU welcomes collaboration with scholars of Science and Technology Studies worldwide. Please visit the SATSU website at: www.york.ac.uk/org/satsu/ for up to date information on our activities, or contact us directly using the addresses below.

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