

Challenging Models in the Face of Uncertainty

Tuesday, 28 September 2010 to Thursday, 30 September 2010

Location: Gillespie Conference Centre, Clare College, Queens Road, Cambridge and Mill Lane Lecture Rooms

Please note that a poster exhibition can be viewed during refreshment and lunch breaks.

**Tues. 28
September**

Mill Lane Lecture Rooms, Room 3

17.30-19.00 **Opening Public Lecture**

Mike Hulme (UEA)

How do Climate Models Gain and Exercise Authority?

Chair: **Keith Richards** (University of Cambridge)

Discussant: **Susan Owens** (University of Cambridge)

**Weds. 29
September**

**Riley Auditorium and Elton Bowring Room, Gillespie Centre,
Clare College**

9.30-10.00 Registration and coffee

10.00-11.30 **Theme 1: *Envisioning the Unknown* (Riley Auditorium)**

10.00-10.45 **Johan Rockström** (Stockholm University)

Building Resilience in an Era of Rapid Global Change

10.45-11.30 **Melissa Leach** (University of Sussex)

Imagining and Negotiating Pathways in an Age of Anxiety and Incomplete Knowledge

Chair: **David Spiegelhalter** (University of Cambridge)

11.30-12.00 Tea/coffee break

12.00-13.00 **Parallel Sessions**

Theme 1: *Envisioning the Unknown* (Riley Auditorium)

12.00-12.20 **Marcy Rockman** and **Peter Jutro** (US Environmental Protection Agency, National Homeland Security Research Center)
Resilience in the Longue Durée: Archeological and Anthropological Approaches to Public Perception of Hazards and Implications for Homeland Security, Climate Change, and Disaster Risk Reduction Policy

12.20-12.40 **David Kyle** (University of California, Davis) and **Saara Koikkalainen** (University of California, Davis and University of Lapland, Finland)
Do we all live in New Orleans? The Cognitive Sociology of Climate-Induced Migration

12.40-13.00 **Diana Mangalagu** and **Angela Wilkinson** (University of Oxford)
Thinking the Unthinkable: Scenarios and the Social Construction of Ignorance

Chair: **Erika Mansnerus** (University of Cambridge)

Theme 1: *Envisioning the Unknown* (Elton Bowring Room)

12.00-12.20 **Keith Beven** (University of Lancaster, LSE, Uppsala University), **David Leedal** (University of Lancaster) and **Simon McCarthy** (University of Middlesex)
On the Colour and Spin of Epistemic Error (and what we might do about it)

12.20-12.40 **Ken Mylne** and **Vicky Pope** (Met Office)
Seamless Communication of Weather and Climate-Related Risk across Timescales from Days to Decades

12.40-13.00 **Paul Upham** (University of Manchester), **Hauke Riesch** (University of Cambridge), **Patricia Thornley** (University of Manchester), and **Julia Tomei** (University College London)
The Sustainability of Woody Biomass Supply for UK Bioenergy: A Post-Normal Approach to Environmental Risk and Uncertainty

Chair: **Brian MacGillivray** (University of Cambridge)

13.00-14.00 Lunch

14.00-15.30 **Theme 2: Perception, Behaviour and Rationality (Riley Auditorium)**

14.00-14.45 **Dan Kahan** (Yale Law School)
Cultural Cognition and the Challenge of Science Communication

14.45-15.30 **Gerd Gigerenzer** (Director, Max Planck Institute, Berlin)
Risk Literacy

Chair: **Tim Lewens** (University of Cambridge)

15.30-16.00 Tea/coffee Break

16.00-17.00 **Parallel Sessions**

Chaired Debate (Riley Auditorium)
Is Building Bigger and 'Better' Climate Change Models a Poor Investment?

Tim Palmer (Royal Society Research Professor, University of Oxford and European Centre for Medium-Range Weather Forecasts, Reading)

Jonathan Rougier (Senior Lecturer in Statistics, Department of Mathematics, University of Bristol)

Theme 2: Perception, Behaviour and Rationality (Elton Bowring Room)

16.00-16.20 **André Martins** (Universidade de São Paulo)
Do we really know that? Epistemic lessons from simple artificial agent models

16.20-16.40 **Wolfgang Gaissmaier** (Max Planck Institute for Human Development)
Simple Models for a Complex World: The Intelligence of Heuristics

16.40-17.00 **Sabine Roeser** (Delft University of Technology)
Public Risk Perceptions and the Legitimacy of Emotions

Chair: **Stephen John** (University of Cambridge)

Mill Lane Lecture Room 3

17.30-19.00 **Second Public Lecture**

Lord Krebs (Principal, Jesus College, University of Oxford)
Risk, Uncertainty and Regulation

Chair: **David Spiegelhalter** (University of Cambridge)

Discussant: **Rob Doubleday** (University of Cambridge)

19.30 Garden Room, Gillespie Centre, Clare College

Buffet supper for speakers, chairs and delegates who have pre-booked.

"An uncertain musical performance - ragas by candlelight"
Hindustani Classical improvisation by **Stephen Bull** (violin) and **Udit Pankhania** (tabla)

**Thurs. 30
September**

Riley Auditorium and Elton Bowring Room, Gillespie Centre, Clare College

9.00-10.40 **Theme 3: Risk Governance (Riley Auditorium)**

9.00-9.40 **Andrew Stirling** (Science and Technology Policy Research, University of Sussex)
From Risk Regulation to Innovation Governance: Reconciling Rationality, Progress, Precaution and Democracy

9.40-10.00 **Ray Pawson** (University of Leeds)
Known Knowns, Known Unknowns, Unknown Unknowns: The Predicament of Evidence-Based Policy

10.00-10.20 **Nick Pidgeon, Alexa Spence, Wouter Poortinga, Dan Venables, Adam Corner** (University of Cardiff)
Public Perceptions of Climate Change and Energy Futures: A British Survey

10.20-10.40 **Avner Offer** (University of Oxford)
Self Control and Future Shocks

Chair: **Rob Doubleday** (University of Cambridge)

10.40-11.00 Tea/coffee break

11.00-12.00 **Parallel Sessions**

Chaired Debate: (Riley Auditorium)

In the Aftermath of the Financial Crisis, Can We Still Model Economic Agents as Rational Actors? And if not, then what are the Alternatives?

William Janeway (Warburg Pincus, London, New York)

Hashem Pesaran (University of Cambridge)

Theme 3: Risk Governance (Elton Bowring Room)

11.00-11.20 **Stephen John** (University of Cambridge)

Risk and Well-Ordered Science: How Should Scientists tackle the Problem of Inductive Risk?

11.20-11.40 **Milan Boran**

Market Dynamics and Systemic Risk

11.40-12.00 **Ulrike Hotopp** (Department for Business Innovation and Skills, UK Government)

Public Risk and Government Intervention

Chair: **Tim Lewens** (University of Cambridge)

12.00-13.00 Lunch

13.00-14.00 **Parallel Sessions**

Theme 4: Social Construction and Values in Modelling (Elton Bowring Room)

13.00-13.15 **Erika Mansnerus** (University of Cambridge)

Care of Oneself or of Others: Tensions within the Governance of Public Health Risks

13.15-13.30 **Cornelius Schubert** (Technische Universität Berlin)

The Magic of Mathematical Predictions: How Computer Simulations Transform Social Relations

13.30-13.45 **Vanessa Dirksen** (University of Constance)
Modelling Intelligence: A Cross-Cultural Study of the Epistemic Cultures of Security

13.45-14.00 **Anders Kristian Munk** (Danish Technical University)
New Materialities in Computer Simulation: The Case of Flood Risk Modelling in the UK Insurance Sector

Chair: **Brian MacGillivray** (University of Cambridge)

Theme 4: Social Construction and Values in Modelling (Riley Auditorium)

13.00-13.20 **Will Jennings** (University of Manchester) and **Martin Lodge** (LSE)
The Olympics, Risk and Resilience: Organising Recipes for London 2012

13.20-13.40 **Bent Flyvbjerg** and **Alexander Budzier** (University of Oxford)
ICT Projects as Rare High-Impact Events

13.40-14.00 **Minna Jokela, Jyrki Ojala** and **Mika Suomalainen** (Finnish Border and Coast Guard Academy)
A Pragmatist Approach to Risk Analysis: Toward Analyzing Knowledge-Building of Situational Picture and Situational Awareness

Chair: **Hauke Riesch** (University of Cambridge)

14.00-15.40 **Theme 4: Social Construction and Values in Modelling (Riley Auditorium)**

14.00-14.40 **Steve Rayner** (University of Oxford)
Handbags and Goat Entrails

14.40-15.00 **David Demeritt** and **Sebastien Norbert** (King's College London)
Ensembling EFAS: the Institutional Politics of 'good' Flood Forecasting in the European Union

15.00-15.20 **Mark Salter** (University of Ottawa)
Risk, Uncertainty, and Communication: Public Safety/Security and the Terror of the Future

15.20-15.40 **Sharon Ku** (National Institute of Health)
Plenty of Room at the Bottom: The Politics of Defining Risk of Nanoparticles

Chair: **William Janeway** (Warburg Pincus, London, New York)

15.40-16.00 Tea/coffee break

16.00-17.30 **Question Time (Riley Auditorium)**

Chairs: **Mary Jacobus** (University of Cambridge) and **David Spiegelhalter** (University of Cambridge)

Panelists include: **William Janeway** (Warburg Pincus, London, New York), **Dan Kahan** (Yale Law School)

17.30-18.30 Drinks reception