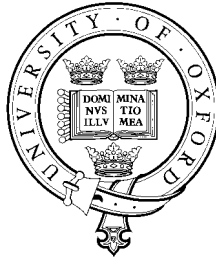


# STEVE RAYNER



## UNIVERSITY OF OXFORD

James Martin Professor of Science and Civilization  
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## **CAREER SUMMARY**

Steve Rayner is James Martin Professor of Science and Civilization and Director of the Institute for Science, Innovation and Society at Oxford University, where he also co-directs the Oxford Programme for the Future of Cities and the Oxford Geoengineering Programme. He is also Senior Fellow at the Breakthrough Institute, a non-partisan environmental think tank based in California's Bay Area. He previously held senior research positions in two US National Laboratories and has taught at leading US universities.

He has served on various US, UK, and international bodies addressing science, technology and the environment, including Britain's Royal Commission on Environmental Pollution, the Intergovernmental Panel on Climate Change, the Royal Society's Working Group on Climate Geoengineering and the Lead Expert Group for the British Government's Foresight Programme on Future Cities. Until 2008 he also directed the national Science in Society Research Programme of the Economic and Social Research Council. He was included in the 2008 Smart List by Wired Magazine as "one of the 15 people the next US President should listen to".

## **EXPERIENCE & QUALIFICATIONS**

### **PREVIOUS APPOINTMENTS**

Professor of Environment and Public Affairs, School of International and Public Affairs Columbia University 1999-2002.

Chief Social Scientist, International Research Institute for Climate Prediction 1999-2002

Chief Scientist, Pacific Northwest National Laboratory, 1996-1999. Previously Senior Program Manager for Global Environmental Management Studies and Manager of the Global Change Group 1991-1996

Adjunct Associate Professor, Science, Technology, and Society Graduate Program, Virginia Polytechnic Institute, 1997-1998

Deputy Director, Center for Global Environmental Studies and Senior Research Staff Member, Energy Division, Oak Ridge National Laboratory, Tennessee, 1990-1991. Previously Research Staff 1986-1990 and Research Associate 1983-1986

Visiting Associate Professor, Program in Science, Technology, and Society, Cornell University, 1990

Adjunct Faculty, U.S. Government Executive Seminar Center, Oak Ridge, Tennessee, 1988-1991

Adjunct Assistant Professor of Sociology, University of Tennessee, 1986

Research Associate, Columbia University, Department of Computer Science, 1982-1983. Previously Visiting Scholar in 1981 and 1982

Visiting Scholar, Boston University School of Public Health, 1982

Research Associate, Russell Sage Foundation, New York, 1980-1981

Research Associate, Centre for Occupational and Community Research, London, 1979-1983

Lecturer in Social Anthropology, University of London, Extra-Mural Studies Department, 1977-1978

## **DEGREES**

MA, Conferred by Resolution, University of Oxford, 2004

PhD, Anthropology, University College London, 1979

Dissertation Topic: *The Classification and Dynamics of Sectarian Forms of Political Organization: Grid/Group Perspectives on the Far Left in Britain.*

BA Joint Honours, Philosophy and Theology, Keynes College, University of Kent at Canterbury, 1974

## **HONOURS, MAJOR GRANTS, AND AWARDS**

ANZSOG-Goyder Institute Visiting Professor in Public Sector Policy and Management, Flinders University 2013-2014

ESRC Responsive Mode Grant, Climate Geoengineering Governance 2012-2014

Honorary Professor of Climate Change and Society, University of Copenhagen 2009-2014

Visiting Fellow, Indiana University Institute for Advanced Study 2010

2008 Smart List: 15 People the Next President Should Listen To, *Wired Magazine*

Lead Author of Chapters of the Third and Fourth Assessment Reports of the Intergovernmental Panel on Climate Change, which was co-recipient of the 2007 Nobel Peace Prize

Biographee, *Who's Who*, A&C Black, London 2006-present

European Commission Framework Programme 6 Research Grant 2006-2009  
ESRC Science in Society Programme Director's Award, 2001-2007

US National Aeronautic and Space Agency, Office of Policy Development,  
Research Grant 2000-2001

US National Oceanic and Atmospheric Administration, Human Dimensions of  
Global Change Program Grant, 1998-1999

Homer M. Calver Award, for accomplishments on behalf of the environment,  
Environment Section, American Public Health Association, 1994

Director's Award for Scientific and Engineering Excellence, Pacific Northwest  
Laboratory, 1993

Martin-Marietta Energy Systems Significant Event Award, for major  
contributions to climate policy analysis, 1989.

Biographee, *Who's Who in the World*, 9th edition, Marquis, Chicago, 1989

Martin-Marietta Energy Systems Significant Event Award, for significant  
intellectual contributions to the field of risk analysis, 1988.

Biographee, *Who's Who of Emerging Leaders in America*, 1st edition, Marquis,  
Chicago, 1987

Biographee, *Who's Who in the South and Southwest*, 20th edition, Marquis,  
Chicago, 1986

Institute for Intercultural Studies, Small Grant, 1982

Wenner-Gren Foundation for Anthropological Research, Grant in Aid, 1982

University of London Central Research Fund, Research Grant, 1977-1979

Social Science Research Council of Great Britain, Bursary for Postgraduate  
Research, 1975-1978

## **INSTITUTIONAL FELLOWSHIPS/MEMBERSHIPS**

Fellow of the Royal Anthropological Institute

Fellow of the Royal Society of Arts

Fellow of the American Association for the Advancement of Science

Fellow of the Society for Applied Anthropology  
European Association for the Study of Science and Technology  
Society for the Social Study of Science  
Society for Risk Analysis

## **SELECTED PROFESSIONAL ACTIVITIES**

Member, Environment Committee, Royal Anthropological Institute

Former Member, Lead Expert Group, UK Government Foresight Programme on the Future of Cities

Former Board Member, Foundation for Law, Justice, and Society

Former Member, Royal Commission on Environmental Pollution

Former Member, Royal Society Working Group on Geoengineering the Climate

Former Member, Advisory Group on Science in Society, European Commission 7<sup>th</sup> Framework Programme for Research and Technological Development

Former Member, Advisory Committee, UK Climate Impacts Programme

Lead Author, Working Group III, Intergovernmental Panel on Climate Change for Third and Fourth Assessment Reports

Former Member, Sciencewise Steering Group and Review Panel of the Office of Science and Technology, UK Department of Trade and Industry

Former Director, ESRC Programme on Science in Society

Past President, Sociology and Social Policy Section, British Association for the Advancement of Science

Former Member, Oxford Commission on Sustainable Consumption

Former Member, International Advisory Board, *The Encyclopedia of Global Environmental Change*

## **EDITORIAL BOARDS**

Series Editor, *Science in Society* Book Series, Earthscan

Member editorial board, *Jindal Journal of Public Policy*

Member editorial board *Environmental Science and Policy*

Member editorial board *Encyclopedia of Global Environmental Change*

Former member editorial board *Integrated Assessment*

Former member editorial board *Environment*  
Former member editorial board *Global Environmental Change*  
Former member editorial board *Population and Environment*

#### **FORMER CONTRACT RESEARCH CLIENTS**

US Department of Energy  
US Energy Information Administration  
US Nuclear Regulatory Commission  
US Strategic Petroleum Reserve  
US Army  
US Air Force  
US Agency for International Development  
Federal Emergency Management Agency

#### **FORMER CONSULTING CLIENTS**

UK Department for Environment, Food and Rural Affairs  
Science Applications International Corporation  
UK Economic and Social Research Council  
Carnegie Council for Ethics in International Relations  
Netherlands Environmental Assessment Agency (PBL)  
UK National Audit Office  
Bayer Crop Science  
Veolia Water UK  
Royal Dutch Shell  
Oxford Analytica  
Normann Partners  
University of Delaware  
Deloitte

## **GRADUATE RESEARCH SUPERVISION**

Garmulewicz, A. 2015. 3D Printing in the Commons Knowledge and the Nature of Physical and Digital Resources Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford.

Ramachandran, D. 2014. Buoyant Architecture: A resilient adaptation to rising water levels? Dissertation presented for the degree of Master of Science, Department of Continuing Education, University of Oxford

Parmar, C. 2013. The Pluriverse of Disaster: Knowledge, Mediation and Citizenship. Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford

Stewart, A. 2012. Knowledge Games: The Achievement of Ignorance in Managing Olympic and Commonwealth Mega-Events. Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford

Kim, H. 2011. Commercializing Low-Carbon Energy Technologies from Research Laboratories through Start-ups: A typology of approaches illustrated with case studies. Dissertation presented for the degree of Master of Science, Environmental Change Institute, University of Oxford

Mathur, V. 2011. Uncertain Knowledge: Cultures, Institutions and Resilience. Adapting to Climate Change in the Tonle Sap Lake of Cambodia. Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford

Blazekovic, M. 2011. Making Partnership Work: Cross-Sector Alliances between Businesses and NGOs at the Bottom of the Pyramid. Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford

Krause, J. 2010. Systemic Risks in Europe's Carbon Market: A Political Market Perspective. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Mikami, K. 2010. Research Regimes and their Technological Imaginations: A Comparative Study of Tissue Engineering in the UK and Japan. Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford

Imbert, D. 2010. The U.S. Energy Innovation Challenge. Dissertation submitted for the degree of Master of Science, Environmental Change Institute, University of Oxford

Evans, S. 2009. Technological Ambiguity and the Wassenaar Arrangement.

Thesis presented for the degree of Doctor of Philosophy, Saïd Business School, University of Oxford

Grinberg, A. 2009. Climate Change: The Potential Role of Defence Organizations in Developing, Demonstrating and Deploying Innovative Technologies – A Pilot Study. Dissertation presented for the degree of Master of Science, Environmental Change Institute, University of Oxford

Stewart, A. 2009. Constructed Failure? A Cultural Theory of Sensemaking on Projects. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Ng, R. 2009. Probing the Development of Cultural Intelligence through Latent Growth Models and Cross Sectional Studies. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Tharmanathan, G. 2009. Decision Making in Private Sector Development in Africa. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Medioli, J. 2009. Changes in Nuclear Power: Using Innovations and Social Theories of Risk to Explain Developments in the US Nuclear Power Industry. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Siddiqui, A. 2008. Alliance Partner Choice and the Development of New Technology. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Logue, D. 2007. The Role of Universities in Managing Scientific Mobility. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Patel, T. 2006. The Role of Culture in the Performance of Indo-French Collaborations in Small and Medium Sized Enterprises. Thesis presented for the degree of Doctor of Philosophy, The Open University and the Groupe Ecole Supérieure de Commerce de Rennes

Mikami, K. 2005. The Sociocultural Analysis of Cross-cultural Consumption: Japanese Students in the UK. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Livingston, D. 2005. The Bystander Pesticide Exposure Controversy: Risk Management and Communication. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford



Evans, S. 2004. The Governance of Biotechnology at the World Trade Organization: A Cultural Theory Framework. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Karakas, R. 2004. The Nanotechnology Debate: Does It Exhibit Social Learning for Controversial Technologies. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Savage, T. 2004. Non-Governable Organizations? An Examination of NGO Accountability. Dissertation presented for the degree of Master of Science, Saïd Business School, University of Oxford

Goldstein, S.B.1999. US Importation of French Soft Cheeses: Trade Protectionism or Consumer Protection? Dissertation presented for the degree of Master of Science, Department of Science and Technology Studies, Virginia Polytechnic Institute and State University

Wolf, A.K. 1986. Risk and Confidence in Industrial Communities: A Comparative History of Perceptions of Industrial Pollution in Oak Ridge and Rockwood, Tennessee. Thesis presented for the degree of Doctor of Philosophy, Department of Anthropology, University of Pennsylvania

#### **EXTERNAL EXAMINER**

Milkoreit, M. 2013. Mindmade Politics: The Role of Cognition in Global Climate Change Governance. Thesis presented for the degree of Doctor of Philosophy, University of Waterloo

Salmi, O. 2008. Science, Sulphur and Sustainability: Environmental Strategies of Mining in the Russian Kola Peninsula. Thesis presented for the degree of Doctor of Science, Helsinki Technical University

Camilleri, C. 2008 The Ecological Modernization of the Yalumba Wine Company. Thesis presented for the degree of Doctor of Technology, Deakin University

Nye, M. 2006. Understanding Business Participation in UK Emissions Trading: Accounting for Content, Context, and Carbon. Thesis presented for the degree of Doctor of Philosophy, University of Cambridge

Scott, M. 2005. Plural Rationalities, Contested Expertise: UK Scientists and GM Crops. Thesis presented for the degree of Doctor of Philosophy, Centre for Technology Strategy, The Open University, Milton Keynes

van Asselt, M. 2000. Perspectives on Uncertainty and Risk: The PRIMA Approach to Decision Support. Thesis presented for the degree of Doctor of

Philosophy, International Centre for Integrative Studies, University of Maastricht

Friedensen, V.P. 1999. *Protest Space: A Study of Technology Choice, Perception of Risk, and Space Exploration*. Dissertation presented for the degree of Master of Science, Department of Science and Technology Studies, Virginia Polytechnic Institute and State University

Samson, P. 1996. *Treading on Thin Ice: The Politics of Global Environmental Change and the Arctic Region*. Thesis presented for the degree of Doctor of Philosophy, Graduate Institute of International Studies, University of Geneva

Sergen, G.M. 1995. *Risk Assessment and Management: A Comparative Analysis of Approaches*. Dissertation presented for the degree of Master of Science and Society, University of New South Wales

Houghton, J.W. 1988. *Knowledge, Method, and Bullionism: The Grid-Group-Power of Economic Knowledge*. Thesis presented for the degree of Doctor of Philosophy, Department of Economics, University of Queensland

Solomon, L.S. 1985. *Mercury Pollution in Oak Ridge, Tennessee: An Analysis of the Collective Definition of a Social Problem*. Dissertation presented for the degree of Master of Arts, Department of Sociology, The University of Tennessee, Knoxville

## LIST OF PUBLICATIONS

### BOOKS

Scavenius, T. & S. Rayner 2018. *Institutional Capacity for Climate Change Response: A New Approach to Climate Politics*. Routledge, Abingdon

S. Rayner & M. Caine (eds) 2014 *The Hartwell Approach to Climate Policy*. Routledge Earthscan, Abingdon

Healey, P & S. Rayner (eds) 2008. *Unnatural Selection: Challenges of Engineering Human Nature and Lifespan*. Earthscan, London

Cantor, R., S. Henry, S. Rayner 2000. *Markets, Distribution, and Exchange After Societal Cataclysm*, Books for Business, Toronto

Rayner, S. & E.L. Malone (eds) 1998. *Human Choice and Climate Change: An International Assessment, Volume 1, The Societal Framework*. Battelle Press, Columbus, Ohio

Rayner, S. & E.L. Malone (eds) 1998. *Human Choice and Climate Change: An International Assessment, Volume 2, Climate Change Resources and Technology*. Battelle Press, Columbus, Ohio

Rayner, S. & E.L. Malone (eds) 1998. *Human Choice and Climate Change: An International Assessment, Volume 3, The Tools of Policy Analysis*. Battelle Press, Columbus, Ohio

Rayner, S. & E.L. Malone (eds) 1998. *Human Choice and Climate Change: An International Assessment, Volume 4, What Have We Learned?* Battelle Press, Columbus, Ohio. Also translated and published in Japanese by Japan UNI Agency Inc. Tokyo 1999.

Cantor, R.A., S. Henry, S. Rayner 1992. *Making Markets: An Interdisciplinary Perspective on Economic Exchange*, Greenwood Press, Westport, Connecticut

Flanagan, J.G. & S. Rayner (eds) 1988. *Rules, Decisions, and Inequality in Egalitarian Societies*, Avebury, Brookfield, Vermont

Gross, J.L. & S. Rayner 1985. *Measuring Culture: A Paradigm for the Analysis of Social Organization*, Columbia University Press, New York

## SPECIAL ISSUES OF JOURNALS

*Environment and Planning C: Special Issue on Novel Multi-sector Networks and Entrepreneurship in Urban Climate Governance* (guest editors H. Schroeder, S. Burch, S. Rayner), Vol. 37, No. 5, 2013

*Environmental Science and Policy, Special Issue on Science, Policy, and Politics: Learning from the Controversy over “The Skeptical Environmentalist”*, (guest editors R. A. Pielke Jr & S. Rayner), Vol. 7, No 5, 2004

*Global Environmental Change, Special Issue on National Case Studies of Institutional Capabilities to Implement Greenhouse Gas Reductions*, (guest editor), Vol. 3, No. 2, 1993

*Evaluation Review, Special Issue on Managing the Global Commons*, (guest editor), Vol. 15, No. 1, 1991

## JOURNAL ARTICLES

Horton, J.B., J.L. Reynolds, H.J. Buck, D. Callies, S. Schäfer, D.W. Keith S. Rayner (in press) Solar Geoengineering and Democracy, *Global Environmental Policy*

Koehler, J., S. Rayner, J. Katuva, P. Thompson, R. Hope (in press) A Cultural Theory of Drinking Water Risks, Values, and Institutional Change. *Global Environmental Change*

Lach, D. & S. Rayner 2017. Are Forecasts Still for Wimps. *Journal of the Southwest*, 59(1-2): 245-263

Acuto, M. & S. Rayner 2016 City Networks: Breaking Gridlocks or Forging (New) Lock-ins? *International Affairs*, 92(5): 1147-1166

Stewart, A. & S. Rayner 2015 Planning Mega-Event Legacies: Uncomfortable Knowledge for Host Cities. *Planning Perspectives*, 31(2): 157-179

Rayner, S., C. Heyward, T. Kruger, N. Pidgeon, C. Redgwell, J. Savulescu 2013 The Oxford Principles for Geoengineering Governance. *Climatic Change* 121(3):499-512

Burch, S., H. Schroeder, S. Rayner, J. Wilson 2013 Novel Multi-Sector Networks and Entrepreneurship: The Role of Small Businesses in the Multi-Level Governance of Climate Change. *Environment and Planning C* 31(5):822-840

- Patel, T. & S. Rayner 2012 A Cultural Analysis of Corporate Sustainability Reporting Practices: Examples from India. *Business and Society*, Online version Jun 6, 2012
- Patel, T. & S. Rayner 2012 Towards a Transactional Approach to Culture: Illustrating the Application of Douglasian Cultural Framework in a Variety of Management Settings. *European Management Review*, 9:121-138
- Rayner, S. 2012. Uncomfortable Knowledge in Science and Environmental Policy Discourses. *Economy and Society*, 41(1):107-125
- Ng, R. & S. Rayner 2010. Integrating Psychometric and Cultural Theory Approaches to Formulate an Alternative Measure of Risk Perception. *Innovation: The European Journal of Social Science*, 23(2):85-100
- Hultman, N., D. Hassenzahl, S. Rayner 2010. Climate Risk: A Critical Review of Tools, Techniques, and Approaches. *Annual Review of Environment and Resources*, 35:283-303
- Rayner, S. 2010. How to Eat an Elephant: A Bottom-up Approach to Climate Policy. *Climate Policy*, 10(6):615-621
- Rayner, S. 2010. Trust and the Transformation of Energy Systems. *Energy Policy* 38: 2617-23
- Prins, G. & S. Rayner 2008. The Kyoto Protocol. *Bulletin of the Atomic Scientists*, 64(1):45-58
- Prins, G. & S. Rayner 2007. Time to Ditch Kyoto. *Nature* 449:973-975
- Rayner, S. 2007. The Rise of Risk and the Decline of Politics. *Environmental Hazards*, 7(2):165-172. **Reprinted in** A. Burgess (ed) *Risk*, Sage, London (2016)
- Pielke Jr, R., G. Prins, S. Rayner, D. Sarewitz 2007. Lifting the Taboo on Adaptation. *Nature* 445:597-8
- Verweij, M., M. Douglas, R. Ellis, C. Engel, F. Hendriks, S. Lohmann, S. Ney, S. Rayner, M. Thompson 2006. Clumsy Solutions for a Complex World. *Public Administration*, 84(4):847-843
- Lach, D., H. Ingram, & S. Rayner 2005. Maintaining the Status Quo: How Institutional Norms and Practices Create Conservative Water Organizations. *University of Texas Law Review*, 83:2027-2053

Lach, D., S. Rayner, H. Ingram 2005. Taming the Waters: Strategies to Domesticate the Wicked Problems of Water Resource Management. *International Journal of Water*, 3(1)1-17

Rayner, S., H. Ingram, D. Lach 2005. Weather Forecasts Are for Wimps: Why Water Resource Managers Do Not Use Climate Forecasts. *Climatic Change*, 69(2-3):197-277

Rayner, S. 2004. The Novelty Trap: Why Does Institutional Learning About New Technologies Seem So Difficult? *Industry and Higher Education*, 18(5):349-355

Rayner, S. 2003. Who's in Charge? Worldwide Displacement of Democratic Judgment by Expert Assessments. *Economic and Political Weekly* XXXVIII(48):5113-5119. **Reprinted** in A. Baviskar (ed) 2008 *Contested Grounds: Essays on Nature, Culture, and Power*, Oxford University Press, New Delhi

Rayner, S. 2003. Democracy in the Age of Assessment: Reflections on the Roles of Expertise and Democracy in Public-Sector Decision Making. *Science and Public Policy*, 30(3):163-170

Malone, E.L. & S. Rayner 2001. The Role of Research Standpoint in Integrating Global- and Local-Scale Research. *Climate Research*, 19(4):173-178

Rayner, S. & E. L. Malone 2001. Climate Change, Poverty, and Intergenerational Equity: The National Level. *International Journal of Global Environmental Issues*, 1(2):175-202

Rayner, S. 1999. Mapping Institutional Diversity for Implementing the Lisbon Principles. *Ecological Economics*, 31(2):259-74. **Reprinted** in Perri 6 & Gerald Mars (eds) *The Institutional Dynamics of Culture*, Vol II of *The International Library of Essays in Law and Society*, Ashgate, Aldershot (2008)

Costanza, R. et al 1999. Ecological Economics and the Sustainable Governance of the Oceans. *Ecological Economics*, 31(2):171-88

Thompson, M., S. Rayner, S. Ney 1998. Risk and Governance Part II: Policy in a Complex and Plurally Perceived World. *Government and Opposition* 33(3):330-54. **Reprinted** in G. Mars & D. Weir, (eds) *Risk Management, Vol I*. Ashgate-Dartmouth International Library of Management, Aldershot, 2000. **Also reprinted** in K.R. Turner, I. Bateman, S. Gerrard (eds), *Environmental Risk Planning and Management*. Edward Elgar, Cheltenham (2001). **Also reprinted** in Perri 6 & Gerald Mars (eds) *The Institutional Dynamics of Culture*, Vol II of *The International Library of Essays in Law and Society*, Ashgate, Aldershot (2008)

Thompson, M. & S. Rayner 1998. Risk and Governance Part I: The Discourse of Climate Change, *Government and Opposition* 33(2):139-66. **Reprinted** in K.R. Turner, I Bateman, S. Gerrard (eds), *Environmental Risk Planning and Management*. Edward Elgar, Cheltenham (2000). **Also reprinted** in Perri 6 & Gerald Mars (eds) *The Institutional Dynamics of Culture*, Vol II of *The International Library of Essays in Law and Society*, Ashgate, Aldershot (2008)

Costanza, R. et al 1998. Principles for Sustainable Governance of the Oceans. *Science*, 281:198-9

Rayner, S. 1994. Governance and the Global Commons. *Transnational Associations* XLVI(4):202-209, (5):268-281. **Also published as**, The Centre for the Study of Global Governance, Discussion Paper No. 8, London School of Economics, London (1994). **Reprinted** in M. Desai and P. Redfern (eds), *Global Governance: Ethics and Economics of the World Order*, Pinter, New York, 1995.

Rayner, S. 1993. Prospects for CO<sub>2</sub> Emissions Reduction Policy in the USA, *Global Environmental Change*, 3(2):12-31

Rayner, S. 1993. National Case Studies of Institutional Capabilities to Implement Greenhouse Gas Emissions: Introduction. *Global Environmental Change*, 3(1):7-11

Grubb, M., et al. 1991. Energy Policies and the Greenhouse Effect: A Study of National Differences. *Energy Policy*, December, 911-17

O' Riordan, T. & S. Rayner 1991. Risk Management for Global Environmental Change. *Global Environmental Change*, 1(2):91-108

Rayner, S. 1991. A Cultural Perspective on the Structure and Implementation of Global Environmental Agreements. *Evaluation Review*, 15(1):75-102

Gerlach, L.P. & S. Rayner 1988. Culture and the Common Management of Global Risks. *Practicing Anthropology*, 10(3):15-18

Rayner, S. & R. Cantor 1987. How Fair is Safe Enough?: The Cultural Approach to Technology Choice. In *Risk Analysis: An International Journal*, 7(1):3-9. **Reprinted** in R. Löfstedt & L. Frewer (eds) *The Earthscan Reader in Risk and Modern Society*, Earthscan, London (1998). **Also reprinted** in Perri 6 & Gerald Mars (eds) *The Institutional Dynamics of Culture*, Vol II of *The International Library of Essays in Law and Society*, Ashgate, Aldershot (2008)

Rayner, S. 1986. Management of Radiation Hazards in Hospitals: Plural Rationalities in a Single Institution. *Social Studies of Science*, 16(4):573-91. **Reprinted** in Perri 6 & Gerald Mars (eds) *The Institutional Dynamics of Culture*, Vol II of *The International Library of Essays in Law and Society*, Ashgate, Aldershot (2008). **Also reprinted** in R. Dingwall (ed) *Qualitative Health Research*, SAGE, London (2008)

Rayner, S. 1984. Radiation Hazards in Hospitals: A Cultural Analysis of Occupational Risk Perception. *RAIN*, 60:10-12

Rayner, S. 1984. Sickness and Social Control. *Listening: A Journal of Religion and Culture*, 19(2):143-54



## CHAPTERS IN BOOKS AND PROCEEDINGS

Rayner, S. & P. Healey 2018. Institutional Challenges of Climate Engineering. In Scavenius, T. & S. Rayner 2018. *Institutional Capacity for Climate Change Response: A New Approach to Climate Politics*. Routledge, Abingdon

Heyward, C., S. Rayner, J. Savulescu 2017. Early Geoengineering Governance: The Oxford Principles. In D. Kaplan & J.B. Callicott (eds) *Technology and the Environment*, MIT Press, Cambridge MA

Heyward, C., & S. Rayner 2016. Apocalypse Nicked: Stolen Rhetoric in Early Geoengineering Advocacy. In S. Crate & M. Nuttall (eds) *Anthropology and Climate Change: from actions to transformations*, West Coast Press, Walnut Creek CA

Linner, B-O. & S. Rayner 2015. An Innovation Investment Framework? In K. Bäckstrand & E. Lövbrand, (eds) *Research Handbook on Climate Governance*. Edward Elgar, Cheltenham

Hansson, A., S. Rayner, V.Wibeck 2015. Climate Engineering. In K. Bäckstrand & E. Lövbrand, (eds) *Research Handbook on Climate Governance*. Edward Elgar, Cheltenham

Heyward, C., & S. Rayner 2015. Uneasy Expertise: Geoengineering, Social Science, and Democracy in the Anthropocene. In M. Heazle & J. Kane (eds) *Policy Legitimacy, Science and Political Authority: Knowledge and Action in Liberal Democracies*. Routledge Earthscan, Abingdon

Rayner, S. 2015. To Know or Not to Know? A Note on Ignorance as a Rhetorical Resource in Geoengineering Debates. In M. Gross & L. McGoey (eds) *International Handbook of Ignorance Studies*, Routledge, London

Rayner, S. & C. Heyward 2013 The Inevitability of Nature as a Rhetorical Resource. In K. Hastrup (ed) *Anthropology and Nature*. Routledge, Abingdon

Rayner, S. 2010. Climate Geoengineering Governance – Regulierung der Klima-Manipulation. In U. Simonis (ed) *Die Klima-Manipulateure: Rettet uns oder Geoengineerng? Jahrbuch Ökologie*, Hirzel, Stuttgart

Caswill, C. & S. Rayner 2009. Empowered or reduced? Reflections on the citizen and the push for participation. In J. Stilgoe (ed) *The future of public dialogue with science*. Department for Innovation, Universities and Skills, London

Rayner, S. 2009. Weather, Climate and Everyday Life: Social Science

Perspectives. In V. Jankovic & C. Barboza (eds) *Weather, Local Knowledge and Everyday Life: Issues in Integrated Climate Studies*. MAST, Rio de Janeiro

Rayner, S. 2009. Human Capital, Social Capital and Institutional Capacity. In T. Graedel & E. van der Voet (eds) *Linkages of Sustainability*, MIT Press, Cambridge MA

Loshel, A., M. Delucchi, T. Demayo, D. Gautier, D. Greene, J. Johnston, J. Ogden, S. Rayner, E. Worrell 2009. Energy: Stocks, Flows, and Prospects. In T. Graedel & E. van der Voet (eds) *Linkages of Sustainability*, MIT Press, Cambridge MA

Tansey, J., & S. Rayner 2008. Cultural Theory and Risk. In *The Handbook of Risk* R. Heath & D. O'Hair (eds) Routledge, New York

Patel, T. & S. Rayner, 2008. A Cultural Appreciation of Corporate Sustainability Reporting by Indian Companies. *Proceedings of the Annual Conference of the British Academy of Management Conference*. Harrogate

Rayner, S. 2007. Creating a Climate for Change: The Influence of Luther Gerlach in Critical Thinking About Climate Policy. In L. Brandt (ed) *Cultural Analysis and the Navigation of Complexity: A Festschrift in Honor of Luther Gerlach*. University Press of America. Lanham, Maryland

Verweij, M., M. Douglas, R. Ellis, C. Engel, F. Hendriks, S. Lohmann, S. Ney, S. Rayner, M. Thompson 2006. *The Case for Clumsiness*. In M. Verweij & M. Thompson (eds) *Clumsy Solutions for a Complex World*. Palgrave. Basingstoke

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[https://www.youtube.com/watch?v=-Zv6YEDNn\\_M&index=95&list=PL-gALfcAr8aIt-pfLrFt9ylu3KX\\_sF11a](https://www.youtube.com/watch?v=-Zv6YEDNn_M&index=95&list=PL-gALfcAr8aIt-pfLrFt9ylu3KX_sF11a)

Blavatnik School Cities Conference 11 Dec 2014

HYPERLINK "http://www.bsg.ox.ac.uk/multimedia/video/cogc2014-

sustainable-cities" <http://www.bsg.ox.ac.uk/multimedia/video/cogc2014-sustainable-cities>

Burntwood Lecture 18 Nov 2014

HYPERLINK "https://www.youtube.com/watch?v=PEkvP3EUKJg"

<https://www.youtube.com/watch?v=PEkvP3EUKJg>

FT Transformational Business Awards

HYPERLINK "https://www.ft-live.com/ft-events/ft-ifc-transformational-

business-conference-awards/sessions/guest-speaker" [https://www.ft-](https://www.ft-live.com/ft-events/ft-ifc-transformational-business-conference-awards/sessions/guest-speaker)

[live.com/ft-events/ft-ifc-transformational-business-conference-awards/sessions/guest-speaker](https://www.ft-live.com/ft-events/ft-ifc-transformational-business-conference-awards/sessions/guest-speaker)

The Future City

Oxford China Lecture Dec 2013

HYPERLINK "http://www.oxfordmartin.ox.ac.uk/videos/view/340"

<http://www.oxfordmartin.ox.ac.uk/videos/view/340>

The Flexible City – Infrastructure and Technology  
Oxford University Oct 2013

HYPERLINK

"<https://www.youtube.com/watch?v=w9WHBv3m6eQ&index=6&list=PLbSsAzrnrGZ-hbK09v-sJJ6kKgdCuhww>"

<https://www.youtube.com/watch?v=w9WHBv3m6eQ&index=6&list=PLbSsAzrnrGZ-hbK09v-sJJ6kKgdCuhww>

HYPERLINK "<https://www.youtube.com/watch?v=FGOESitts5U>" How to eat an Elephant: Why Climate Change Policy is in a Mess and How to Fix it.

Oxford University May 15 2013 HYPERLINK

"<https://www.youtube.com/watch?v=FGOESitts5U>"

HYPERLINK "<https://www.youtube.com/watch?v=FGOESitts5U>"

<https://www.youtube.com/watch?v=FGOESitts5U>

Geoengineering -- the problem of competing values in environmental and technological governance March 2013

HYPERLINK "[https://www.youtube.com/watch?v=jp-b\\_6-e-4o](https://www.youtube.com/watch?v=jp-b_6-e-4o)"

[https://www.youtube.com/watch?v=jp-b\\_6-e-4o](https://www.youtube.com/watch?v=jp-b_6-e-4o)

OMS Geoengineering Ethics

Oxford University March 2013

HYPERLINK "<http://www.oxfordmartin.ox.ac.uk/videos/view/246>"

<http://www.oxfordmartin.ox.ac.uk/videos/view/246>

NETS presentation

Policy Exchange London February 2013

HYPERLINK "<http://www.oxfordmartin.ox.ac.uk/videos/view/235>"

<http://www.oxfordmartin.ox.ac.uk/videos/view/235>

HYPERLINK "<http://www.youtube.com/watch?v=G4EHLleWk-s>"

<http://www.youtube.com/watch?v=G4EHLleWk-s>

Negative Emissions Technologies

Policy Exchange February 2013

HYPERLINK "<http://www.youtube.com/watch?v=1lSZHEeU9Xk>"

[www.youtube.com/watch?v=1lSZHEeU9Xk](http://www.youtube.com/watch?v=1lSZHEeU9Xk)

Flexible Cities

Deutsche Bank 2 November 2012

HYPERLINK "<http://www.youtube.com/watch?v=2CDJ0n0Z1Kc>"

<http://www.youtube.com/watch?v=2CDJ0n0Z1Kc>

Future Cities, OMS 2012

HYPERLINK "<http://www.oxfordmartin.ox.ac.uk/videos/view/192>"

<http://www.oxfordmartin.ox.ac.uk/videos/view/192>

Building Technologies, OMS 2012

HYPERLINK "http://www.oxfordmartin.ox.ac.uk/videos/view/193"  
<http://www.oxfordmartin.ox.ac.uk/videos/view/193>

How to eat an elephant

Oxford Alumni Weekend Oct 2012

HYPERLINK "http://podcasts.ox.ac.uk/how-eat-elephant-why-climate-change-policy-mess-and-how-fix-it-video" <http://podcasts.ox.ac.uk/how-eat-elephant-why-climate-change-policy-mess-and-how-fix-it-video>

The flexible city

Oxford Alumni Weekend Oct 2012

HYPERLINK "http://podcasts.ox.ac.uk/flexible-city-overcoming-lock-and-path-dependency-video" <http://podcasts.ox.ac.uk/flexible-city-overcoming-lock-and-path-dependency-video>

The battle against the Fates

Battle of Ideas, 6 Feb 2012

HYPERLINK "http://www.youtube.com/watch?v=ZxeBADy0oSQ"  
<http://www.youtube.com/watch?v=ZxeBADy0oSQ>

Don't get locked in

Iq2if conference 25 Jan 2012

HYPERLINK "http://www.youtube.com/watch?v=POrmmVqMDtU"  
<http://www.youtube.com/watch?v=POrmmVqMDtU>

Geoengineering our climate

Centre for International Governance Innovation (CIGI) 25 Jan 2012

HYPERLINK "http://www.youtube.com/watch?v=gR5SCDnvBpo"  
<http://www.youtube.com/watch?v=gR5SCDnvBpo>

Why the Kyoto Protocol failed and a new way forward

Breakthrough Institute 6 Sep 2011

HYPERLINK  
"http://www.youtube.com/watch?v=6frrka\_DnrM&feature=related"  
[http://www.youtube.com/watch?v=6frrka\\_DnrM&feature=related](http://www.youtube.com/watch?v=6frrka_DnrM&feature=related)

Two sides of the Creativity Coin – Innovation and Lock-In

Creativity Lecture Keble College July 2011

HYPERLINK "http://podcasts.ox.ac.uk/creativity-lecture-4-two-sides-creativity-coin-innovation-and-lock-video"  
<http://podcasts.ox.ac.uk/creativity-lecture-4-two-sides-creativity-coin-innovation-and-lock-video>

### Governance of imagined technologies

Franco-British Workshop on Responsible Innovation May 2011

HYPERLINK "http://www.dailymotion.com/video/xj5sei\_talk-15-15-steve-rayner-franco-british-workshop-on-responsible-innovation\_tech"

[http://www.dailymotion.com/video/xj5sei\\_talk-15-15-steve-rayner-franco-british-workshop-on-responsible-innovation\\_tech](http://www.dailymotion.com/video/xj5sei_talk-15-15-steve-rayner-franco-british-workshop-on-responsible-innovation_tech)

### Policy Based Evidence?

Battle of Ideas 16 Feb 2011

HYPERLINK "http://www.youtube.com/watch?v=oa3U9ilbV2U"

<http://www.youtube.com/watch?v=oa3U9ilbV2U>

### Aspects of intervention in the Earth's natural systems

Royal Society Oct 2010

HYPERLINK "http://www.oxfordmartin.ox.ac.uk/videos/view/58"

<http://www.oxfordmartin.ox.ac.uk/videos/view/58>

HYPERLINK

"http://www.youtube.com/watch?v=qm37620Af8U&list=UUmXB98lpzelFrlryV2llXUQ&index=2&feature=plcp"

<http://www.youtube.com/watch?v=qm37620Af8U&list=UUmXB98lpzelFrlryV2llXUQ&index=2&feature=plcp>

### Handbags and Goats' Entrails

CRASSH, Cambridge 12 July 2010

HYPERLINK "http://sms.cam.ac.uk/media/1083424"

<http://sms.cam.ac.uk/media/1083424>

### Finding the right trousers: Radical rethinking climate policy and the implications for low-carbon energy

Renewable and Sustainable Energy Institute, University of Colorado 2010

HYPERLINK "http://vimeo.com/8270067" <http://vimeo.com/8270067>

### Art and Climate Change

Tate Modern 20 March 2010

HYPERLINK "http://www.tate.org.uk/context-comment/video/rising-climate-challenge-artists-and-scientists-imagine-tomorrows-world-part-6"

<http://www.tate.org.uk/context-comment/video/rising-climate-challenge-artists-and-scientists-imagine-tomorrows-world-part-6>

### Talking management

Toronto Globe and Mail 23 Sep 2008

HYPERLINK "http://podcasts.mcgill.ca/business-leadership/talking-management-steve-rayner-part-2/" <http://podcasts.mcgill.ca/business-leadership/talking-management-steve-rayner-part-2/>

<http://podcasts.mcgill.ca/business-leadership/talking-management-steve-rayner-part-2/>

HYPERLINK

"http://v1.theglobeandmail.com/servlet/story/RTGAM.20080924.wvRayner

0924/VideoStory/VideoLineup/?pid=RTGAM.20080923.wmoore\_transcript  
0923"

[http://v1.theglobeandmail.com/servlet/story/RTGAM.20080924.wvRayner0924/VideoStory/VideoLineup/?pid=RTGAM.20080923.wmoore\\_transcript0923](http://v1.theglobeandmail.com/servlet/story/RTGAM.20080924.wvRayner0924/VideoStory/VideoLineup/?pid=RTGAM.20080923.wmoore_transcript0923)

## INVITED LECTURES AND CONFERENCE PRESENTATIONS

*Negative Omissions: How the Way We (Don't) Talk About NETs Perpetuates Climate Reductionism.* Coauthored with Oliver Geden & Stefan Schäfer. Keynote Address to Workshop on The Politics and Governance of Negative Emissions Technologies, Utrecht University, 2017

*The Flexible City: Regenerative Sustainability and the Urban Technological Transition.* Keynote address to Imaginnovate Hong Kong, Hong Kong Science Park, 2016

*It's Not About the Experts.* Invited Lecture, Dublin Institute of Advanced Studies, 2016

*Disruptive Discourse: Negotiating the Boundaries of Geoengineering Research.* Paper presented at 4S EASST Conference, Barcelona, 2016

*Geoengineering Risk Regulation: A Cultural Perspective.* Sixth Biennial Conference, European Consortium for Political Research, Tilburg, The Netherlands, 2016

*Why "Climate Stabilization" is an Energy Problem.* Keynote Lecture, Conference on Political Economy and Alternative Energy, Hebrew University, Jerusalem, 2016

*The Flexible City.* Public Lecture. Center for Corporate Responsibility and Sustainability, University of Zurich, 2016

*Climate Engineering: Lessons from the Oxford Geoengineering Programme.* Keynote Presentation and Panelist by invitation of Stiftung Risiko-Dialog St Gallen, University of Zurich, 2016

*Climate Geoengineering Governance.* Presentation to Forum for Geoengineering Assessment, American University, Washington DC 2016

*Post-Paris Reflections: Future Directions for Climate Action.* Keynote Address to Road from Paris: Ensuring Effective and Equitable Climate Action, by invitation of the Observer Research Foundation, New Delhi, 2016

*Climate Geoengineering: Responsible Innovation or Reckless Folly?* Keynote Address to MVI Congress 2015, by invitation of the Netherlands Organization for Scientific Research, The Hague, 2015

*How to Eat an Elephant: A Bottom-up Approach to Climate Policy.* Public Lecture, Hong Kong University of Science and Technology, Hong Kong, 2015

*Engineering a Cooler Planet: Could We? Should We?* (Co-presented with Prof Richard Darton) Public Lecture, Oxford Martin School, Oxford 2015

*Top-down or Bottom-up: Getting Traction on Climate Change.* Public Lecture, Oxford Martin School. Oxford 2015

*Global Perspectives on Low-Carbon Cities.* Plenary address to Conference on Future Low-Carbon Cities. Shanghai by invitation of Shanghai Lingiang Area Development Administration, Shanghai, 2015

*Climate Geoengineering Governance,* Presentation to Dissemination Conference, Geoengineering Research: Where Next? Royal Society, London 2014

*Science-based Policy Advice – Current Trends in Europe.* Presentation to conference on Governance of Science by invitation of Leopoldina, Nationale Akademie der Wissenschaften, Hannover, 2014

*Rethinking Environmental Problems: Wicked Problems and Clumsy Solutions.* The Burntwood Lecture, by invitation of the Institution for Environmental Science, London, 2014

*Science, Technology and Democracy: Dissecting the Anatomies of Controversy.* Sense About Science Annual Lecture, The British Library, London, 2014

*Climate Geoengineering Governance.* Keynote Address, Annual Institute of the Society for Policy Sciences, Brown University, Providence, RI 2014

*Earth, Air, Fire and Water: Managing Climate Variability in South Australia.* Presentation to Better Together? Reconciling Supply of and Demand for Climate Knowledge in Adaptation Decision Making, Cumberland Lodge, Windsor, 2014

*Climate Geoengineering Rhetoric.* Presentation with Clare Heyward, Royal Geographical Society, Annual International Conference, London, 2014

*Geoengineering Research: Ignorance, Emergency, The Slippery Slope and the Valley of Death.* Guest lecture, Institute for Science and Society, University of Nottingham, 2014

*The City as a Sustainable Technology.* Keynote Address, Financial Times Transformational Business Conference, London, 2014

*Evidence, Uncertainty and the Role of Values.* Keynote Address, Circling the Square: Conference on Research, Politics Media and Impact. University of Nottingham, 2014

*Are We Still Trying to Eat an Elephant? Scholarship and Politics Post-Copenhagen.* Keynote Address, Centre for Climate Science and Policy Research, Linköping University, 2014

*Climate Change, Technology and the Future of Cities,* Annual Oxford Alumni Lecture, Adelaide, 2014

*The Flexible City: Climate Change, Technology, Lock-in and Path Dependency.* Keynote Lecture, Envisioning the Future City, Hong Kong University of Science and Technology, Hong Kong 2014

*Wicked Problems, Uncomfortable Knowledge and Clumsy Solutions.* Keynote Lecture, Envisioning the Future City, Hong Kong University of Science and Technology, Hong Kong 2014

*The Future City: Climate Change, Technology and the New Urbanisation,* Inaugural Oxford China Lecture, Shanghai, 2013

*Are Weather Forecasts Still for Wimps? Usability of Predictions in Water Management,* Guest lecture, Flinders University, Adelaide, 2013

*Urban Technology.* Presentation to the Flexible City Symposium, University of Oxford, 2013

*Anthropology and Climate Change: How I Learned to Stop Worrying and Love the Anthropocene.* Public lecture, Royal Anthropological Institute, London, 2013

*Polycentric Architectures,* Presentation to conference on Institutional Design and Response Capacity – Local and Global Challenges of Climate Politics, University of Copenhagen, 2013

*Contesting Geoengineering Governance: Reflections of an Observing Participant.* Public Lecture, Harvard-MIT, Cambridge, MA 2013

*Climate Change and the Role of Geoengineering.* Public Lecture, European Center for Sustainability Research, Zeppelin University, Friedrichshafen, Germany, 2013

*Hope, Hype and Opportunity: How Mundane Technologies Shape the City.* Keynote Address, Urban Land Institute Annual Conference, Paris, 2013

*Sustainability's Three Legs: Wicked Problems, Uncomfortable Knowledge, Clumsy Solutions.* Guest Lecture, National University of Singapore, 2012

*Flexible Cities.* Tomorrow's Horizons Lecture, IQ Squared and Deutsche Bank, London, 2012



*Wicked Problems, Uncomfortable Knowledge, Clumsy Solutions.* Keynote Address, Breakthrough Dialogue on Overcoming Wicked Problems, Sausalito, CA, 2012

*Climate Geoengineering: Dr Strangelove or Dr Salk?* Keynote Address, ADC (Australian Davos Connection) Future Summit, Melbourne, Australia, 2012

*The Oxford Principles for Geoengineering Governance.* Presentation to international conference Planet Under Pressure, London, 2012

*The Flexible City: Challenges of Path Dependency and Lock-In.* Keynote Presentation to Conference on Smart Cities for All, World Bank, Washington DC, 2012

*Geoengineering Our Climate: Science, Ethics, and Governance.* Signature Lecture, Centre for International Governance Innovation Conference on Geoengineering Our Climate, Ottawa, 2012

*Beyond the Building: Towards the Regenerative City.* Keynote Address, Celebrating CIRS: Accelerating Sustainability, University of British Columbia, Vancouver 2011

*Control Dilemmas: Great and Small.* Keynote Address, Society for Nanotechnology and Emerging Technologies (S-NET), Third Annual Conference, Tempe, Arizona 2011

*The Urban Paradox: Cities as Sites of Innovation and Inertia,* If Conference, Royal Geographical Society, London, 2011

*Climate Geoengineering Governance.* Guest Lecture, Oregon State University, Corvallis, Oregon, 2011

*Climate Geoengineering Governance.* Guest Lecture, Portland State University, Portland, Oregon, 2011

*Climate Geoengineering Governance.* Public Lecture, Redpath Museum., McGill University, Montreal, 2011

*Climate Geoengineering Governance.* Guest Lecture, H.C. Ørsted Institute, University of Copenhagen, 2011

*The Inevitability of Nature as a Rhetorical Resource.* Presentation to Conference on Nature and Society, Royal Danish Academy of Sciences and Carlsberg Academy, Copenhagen 2011

*Geoengineering Governance*. Presentation to Governing Geo-engineering in the 21<sup>st</sup> Century: Asian Perspectives, Nanyang Technical University, Singapore, 2011

*How to eat an Elephant: A Bottom-Up Approach to Climate Change*. Keynote address, The Technology R&D Management Conference, Norrköping, Sweden, 2011

*Governance of Emerging Technologies*. Plenary lecture, Franco-British Conference on Responsible Innovation, French Embassy, London, 2011

*Infrastructure, Lock-in and the Future of Cities*. Presentation to Conference on Cities of the Future, St Hilda's College, Oxford, 2011

*Infrastructure Lock-in and Cities as Innovation Niches*. Presentation to Chatham House Conference on the Future of Cities, Royal Institute of International Affairs, London, 2011

*Climate Engineering Governance*, Guest lecture, Department of Atmospheric Science, University of Washington, Seattle, 2011

*How to eat an Elephant: A Bottom-Up Approach to Climate Change*. Guest lecture, College of the Environment, University of Washington, Seattle, 2011

*Climate Change: Catastrophe, Salvation or Damp Squib*. Keynote address, International Conference on Demography, Culture and Marketing, Xavier Institute of Management, Bhubaneswar, 2010

*How to eat an Elephant: A Bottom-Up Approach to Climate Change*. Keynote address, Climate Change and Resource Depletion: The Challenge to Actuaries, Institute of Actuaries, London, 2010

*Handbags and Goat Entrails*. Keynote conference lecture, Challenging Models in the Face of Uncertainty, Centre for Research in the Social Sciences and Humanities, Cambridge, 2010

*The Role of Science Studies in Science Policy Decision Making: Lessons of Experience*. Plenary Address, Gordon Conference on Science and Technology Policy, Waterville Valley, New Hampshire, 2010

*The Role of Geoengineering in Addressing Climate Change*. Guest Lecture, School of Public and Environmental Affairs, University of Indiana, Bloomington 2010

*Art, Climate Adaptation and the City*. Public Lecture, Tate Modern, London, 2010

*Draft Principles for the Conduct of Geoengineering Research*. Plenary Address,

Asilomar International Conference on Climate Intervention, Pacific Grove, California 2010

Does Size Matter? Nanotechnology and Geoengineering. Presentation to Research Conference on Nanotechnology Risk Perception, University of California, Santa Barbara, 2010

*Finding the Right Trousers: Beyond the Kyoto Architecture.* Guest Lecture, University of Copenhagen, 2009

*Science, Society and Climate Policy.* Keynote lecture, Conferenza Scienza e Politica: il caso dei cambiamenti globali climatici e ambientali, Bergamo Scienza (Bergamo Science Festival) Bergamo, 2009

*Managing Geoengineering.* Chatham House Conference on Avoiding Worst-Case Scenarios. Royal Institute for International Affairs, London 2009

*Climate Geoengineering: The Governance Dilemma.* Environmental Studies Colloquium, Center for Science and Technology Policy Research, University of Colorado, Boulder, 2009

*The Problem of Uncomfortable Knowledge in Science Policy Debates.* Distinguished Lecture, Cooperative Institute for Research in Environmental Studies (CIRES) University of Colorado, Boulder, 2009

*Finding the Right Trousers: Radically Rethinking Climate Policy and the Implications for Low Carbon Energy.* Keynote Speech at the Inaugural Research Symposium of the Renewable and Sustainable Energy Institute, University of Colorado, Boulder, 2009

*Is There a Role for Business Schools in Energy Justice?* Plenary Lecture, World Energy Justice Conference, Center for Energy and Environmental Security, University of Colorado, Boulder, 2009

*Social and Ethical Implications of Geoengineering.* Seminar on Geoengineering: Challenges and Global Impacts, Institute of Physics, Royal Society of Chemistry, and Royal Society Engineering, House of Commons, London 2009

*The Three-Legged Stool: An Organizational Approach to Sustainability.* Invited Lecture to the Oxford-Achilles Working Group on Social Responsibility, Oxford, 2009

*Socioeconomic Dimensions of Geoengineering.* Geoengineering – Cure or Malpractice? Invited Lecture, Colloquium of Kiel Earth Institute, Germany, 2009

*Technology and Transition in the 21<sup>st</sup> Century.* Final lecture in the Linacre

Lecture series for 2009, *Societies in Transition*. By invitation of Linacre College and the RLAHA, Linacre College Oxford, 2009

*Changing Climate: Changing Technology*. Guest Lecture, The Grantham Institute for Climate Change, Imperial College London, 2009

*The Wrong Trousers: Where Next for Climate Policy*. Guest Lecture, Helsinki Institute of Science and Technology Studies, University of Helsinki, 2008

*Innovation Challenges in Freshwater Management*. Vice-Chancellor's Research Forum, University of Oxford, 2008

*Culture, Credibility and Catastrophe*. Invited Lecture, Global Catastrophic Risks Conference, Oxford University 2008

*Weather, Climate and Everyday Life: Social Science Perspectives*. Opening Keynote Address, International Conference on Weather, Local Knowledge and Everyday Life, Rio de Janeiro, 2008

*The Wrong Trousers: Radically Rethinking Climate Policy*. Guest Lecture, The Policy Exchange, London, 2008

*The Wrong Trousers: Radically Rethinking Climate Policy*. The Richardson Lecture, Keble College, Oxford, 2007

*The Wrong Trousers: Radically Rethinking Climate Policy*. Plenary Lecture, Annual Meeting of the Balaton Group, Lake Balaton, Hungary 2007

*Radically Rethinking Climate Policy*. 21<sup>st</sup> Century Trust Conference on Climate change: Science, Politics and the Management of Uncertainty, Merton College, Oxford, 2007

*The Idea of Risk*. Guest Lecture, Michigan State University, 2007

*Radically Rethinking Climate Policy*. Guest Lecture, Gerald R. Ford School of Public Policy, University of Michigan. 2007

*Wicked Problems: Clumsy Solutions*. Guest Lecture, University of Queensland, Brisbane, Australia 2006

*Wicked Problems: Clumsy Solutions*. First Jack Beale Memorial Lecture, University of New South Wales, Sydney, Australia, 2006

*Dimensions of Trust in Science, Technology and Society*. Keynote address, TSEC Trust Symposium, St Anne's College, Oxford 2006

*The Rise of Risk and the Decline of Politics*. Plenary address, Environmental

Hazards and Risk Communication Conference, Royal Society. London 2006

*The Idea of Risk.* Guest Lecture, Department of Sociology and Social Policy, University of Kent, Canterbury 2006

*Science in Society: Insights from the ESRC Programme.* Keynote address, ESRC Genomics Network Conference, Edinburgh, 2005

*Is there Life After Kyoto?* Gordon Conference on Industrial Ecology, Oxford 2004

*Why is Social Learning So Difficult?* Plenary address, Technology Transfer International Conference, Edinburgh, 2004

*Weather Forecasts Are for Wimps.* Opening plenary address, International Symposium on Uncertainty and Precaution in Environmental Management, Copenhagen, 2004

*Problems of Social Learning.* VIP keynote address, Conference on Interface Between Science and Society, Milan 2003

*Who's in Charge? The Challenge of Science and Democracy.* Presidential address, British Association Sociology and Social Policy Section, BA Festival of Science, Salford, 2003

*Science, Business and Society.* Breakfast briefing, Royal Society of Arts, London 2003

*Climate Change Science and Policy.* Guest lecture, Earth Systems Science Summer School, Department of Meteorology, University of Reading, 2003

*Public Participation in Science.* Café Scientifique public lecture, Edinburgh Science Festival, 2003

*Perils of Public Participation.* Guest lecture, Chief Scientist's Seminar, Department of Environment, Food and Rural Affairs, London, 2003

*Public Participation and Technical Assessment.* Guest lecture, PREST, University of Manchester, 2003

*Democracy in the Age of Assessment: the Future of Institutions, Resources and Values* Conference on Resources Conceptions and Confrontations SSRC South Asia Program, Kathmandu, Nepal 2003

*Sustainable Development Revisited: Reflections on the Earth Summit.* Guest lecture, Center for Development and the Environment, University of Oslo, 2002

*The Democratization of Expertise: Promises and Problems of Public Participation.* Vitenskapsteroi Seminar, University of Oslo, 2002

*Introduction to the ESRC Science in Society Programme*, European Association for the Study of Science and Technology Annual Meeting, York, 2002

*Managing the Risks of Technological Innovation in US Utilities*, University of Sussex, Brighton, 2002

*The Impacts of Consumer Choice*. Oxford Earth Summit, Natural History Museum, Oxford, 2002

*Dialogue in Theory and Practice in the US and the UK*. Science Communication Conference, British Association, London, 2002

*Ruminations on Institutional Capacity for Future Emissions Mitigation Policies*. Annex 1 Working Group on the Evolution of Mitigation Commitments. International Energy Agency, Paris, 2002

*Participation in Sustainable Resource Management: If Biodiversity is so Good for Society Shouldn't Social Diversity be Good for the Environment?* Fourth Annual Andrews LTER Symposium, Oregon State University, 2001

*International Science Assessment as an Instrument of Globalization*. Plenary lecture, Conference on Science, Technology, and Globalization, George Washington University, Washington DC 2001

*Divided We Stand: The Role of Institutional Diversity in Environmental Management*. Dean's Day Lecture, Columbia College, New York 2001

*Human Choice and Climate Change: Social Perspectives on Society and Decision Making*. Plenary address, International conference, "Climate Change: Science, Economics and Politics, Calouste Gulbenkian Foundation, Lisbon, 2000

*Uncertainty, Risk, and Perspectives*. Guest lecture, International Centre for Integrative Studies, University of Maastricht, 2000

*Social Capital and Environmental Decision Making*. Panel session, Workshop on Investigating Social Capital, LOS-Senteret, Solstrand, 2000

*Society and Climate*. Plenary address, International Forum on Climate Prediction, Agriculture, and Development, International Research Institute for Climate Prediction, Palisades, New York, 2000

*Policies and Problems: Theoretical and Practical Issues*. Panel presentation, Symposium on The Politics of Climate in Africa: Farming, Food, and Forecasting, Institute of African Studies, Columbia University, 2000

*The Role of Civil Society in the Sustainable Governance of the Oceans*. Guest lecture, Geographical Society of Lisbon, Lisbon, 1999

*Institutional Issues in Adoption of Probabilistic Climate Information Among US Water Resource Managers.* Panel session, Society for Applied Anthropology Annual Meeting, Tucson, 1999

*Interactive Social Science.* Keynote address, Conference on Interactive Social Science, Economic and Social Research Council, Brighton, 1999

*Social Science and the Environment: The State of the Art.* Plenary address, Annual Biology Colloquium, Oregon State University, 1998

*Civil Society and Sustainable Development.* Harrison Lecture, University of Maryland, College Park, 1988

*Environmental and Social Security: Is There a Common Framework for Policy.* Opening address, Conference on Environmental and Social Security, LOS-Senteret, Norway, and the International Institute for Applied Systems Analysis, Laxenburg, Austria, 1997

*Human Choice and Climate Change: Policy Implications of an International Social Science Assessment.* Guest lecture, Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, 1997

*Human Dimensions of Climate Change: The State of the Art.* Panel session, American Geophysical Union Annual Meeting, Baltimore, 1997

*The Role of Civil Society in Environmental Governance.* Panel session, American Association for the Advancement of Science Annual Meeting, Seattle, 1997

*Deriving “Is” from “Ought” in Societal Risk Analysis.* With Judith Bradbury. Society for Risk Analysis, Annual Meeting, 1996

*Governance and the Global Environment: Linking the Local Present to the Global Future.* Plenary address, International Colloquium, Quel Environnement au XXIeme Siecle: Environnement, Maitrise du Long Terme et Democratie, Fontevraud, France, 1996

*Social Capital and Sustainable Development.* Keynote address, Second Annual Sustainable Development Conference, Islamabad, Pakistan, 1996

*Overview of Equity Issues for Integrated Assessment.* Paper, Workshop on Fairness and Equity Issues in Integrated Climate Change Assessments, by invitation of the Potsdam Institute for Climate Impacts Analysis, Potsdam, Germany, 1996

*Societal Credibility of Natural Catastrophes.* Keynote presentation, Workshop on Climate Change, Cataclysm, and Fairness, International Institute for Applied

Systems Analysis, Laxenburg, Austria, 1996

*Challenges of Local-Global Articulations in the Social Sciences.* Plenary address, Society for Applied Anthropology Annual Meeting, Baltimore, 1996

*Reconciling the Irreconcilable.* With Judith Bradbury (delivered *in absentia*), Pantanal Regional Workshop of the SCOPE/UNEP Project on Integrated Adaptive Ecological Economic Modeling and Assessment, Campo Grande, Brazil, 1995

*Human Choice and Climate Change: The State of the Art.* Guest lecture, Pennsylvania State University, College Station, Pennsylvania, 1995

*The Geographical Dimension of European Scientific Expertise.* Keynote address, European Commission Conference on Scientific Expertise in European Policy Debates, London School of Economics, London, 1994

*Risk Cultures and Climate Policy.* Plenary address, First CLEAR Conference on Climate Change and Alpine Regions, Ascona, Switzerland, 1994

*Human Values and Climate Decision Making.* Plenary paper, IPCC Workshop on Equity and Social Considerations. United Nations Environment Program, Nairobi, Kenya 1994

*Policy Instruments for the Conservation of Forests.* Plenary paper, IPCC Workshop on Climate Change: Policy Instruments and their Implications, Tsukuba, Japan, 1994

*Human Decision Making in a Changing Global Environment.* Guest lecture, Johns Hopkins University, Baltimore, 1992

*The National Academy Report on Human Dimension of Global Change.* Plenary address (delivered *in absentia*) to Society for Social Studies of Science Annual Meeting, Gotheberg, Sweden, 1992

*Science and Myths as Indicators of Environmental Sustainability.* Plenary address, Conference on Earth Rights and Responsibilities, Yale Law School, New Haven, 1992

*Cultural Perspectives on Implementation of Global Environmental Agreements.* Panel presentation, Conference on Earth Rights and Responsibilities, Yale Law School, New Haven, 1992

*Managing the Global Commons: Climate Change and Ozone Depletion.* Guest lecture, University of Wisconsin, Madison, 1991



*National and Institutional Culture in the Transfer of Environmental Expertise.* Panel session (delivered *in absentia*), Conference on Environmental Risk Management: The European Case, Kiev, Ukraine, 1990

*U.S. Environmental and Greenhouse Policy: Domestic Constraints and International Attitudes.* Guest lecture, Royal Institute of International Affairs, London, 1990

*A Role for the U.S. Energy System in Global CO<sub>2</sub> Reduction.* Keynote address, Gordon Conference on Fuel Science, New Hampton, New Hampshire, 1990

*Methodological Myths and Modeling Markets: A Common Framework for Analyzing Exchange.* With Robin Cantor and Stuart Henry, panel session, Second Annual International Conference on Socio-Economics, The George Washington University, Washington, DC, 1990

*Human Choice and the Global Environment.* Panel session, American Association for the Advancement of Science, Annual Meeting, New Orleans, 1990

*The Strategic Use of Ignorance and Uncertainty in Environmental and Technological Disputes.* Distinguished lecture, Center for Technology, Environment, and Development, Clark University, Worcester, Massachusetts, 1990

*Energy Policies to Deal with Global Warming: Instruments and Opportunities in Major Greenhouse Gas Emitting Sectors.* With R.A. Cantor, D.W. Jones and P.N. Leiby. Panel session at International Association for Energy Economics, Eleventh Annual North American Conference, Los Angeles, 1989

*Managing the Global Environment: Human Choice and Climate Change.* Plenary address, International Congress, Les Experts Sont Formels: Controverses Scientifiques et Decisions Politiques dans le Domaine de l'Environnement, Arc-et-Senans, France, 1989

*Institutions and the Management of Global Environmental Change: Markets, Hierarchies, and Collectives.* Guest lecture, JFK School of Government, Harvard University, Cambridge, Massachusetts, 1989

*Risk, Equity, and the Social Organization of Technology Choice.* Panel session, Conference on Socioeconomics, Harvard Business School, Cambridge, Massachusetts, 1989

*Human Choice and Climate Change: The Institutional Challenges of Global Environmental Management.* Guest lecture, University of Tennessee Colloquy on

Technology, Society, and the Common Good, Knoxville, Tennessee, 1989

*Human Choice and Climate Change.* Guest lecture, Cornell University Law School, Ithaca, New York, 1989

*Risk in Cultural Perspective.* Panel session, American Association for the Advancement of Science Annual Meeting, San Francisco, 1989

*Global Disaster Management: Developing Principles for Research.* With Robin Cantor. Panel session, Association for Public Policy Analysis and Management Annual Meeting, Seattle, 1988

*Risk Management and the Global Commons: A Cultural Approach to Decision Making.* Panel session, American Anthropological Association Annual Meeting, Phoenix, 1988

*Equity Issues in Global Risk Management: The Case of Climate Change.* Panel session, Society for Risk Analysis Annual Meeting, Washington, DC, 1988

*Social Choice and Technological Innovation.* Guest lecture, Brunel University, London, 1988

*The Global Commons and Climate Change: Who Are the Stakeholders and How Can Consensus be Achieved?* With R.B. Honea. 26th Congress of the International Geographical Union, Sydney, Australia, 1988

*Perception of Risk: The Social Context of Public Concern Over Non-Ionizing Radiation.* (Delivered *in absentia*) International Workshop on the Effects of Non-Ionizing Radiation, Melbourne, Australia, 1988

*Social Perception and Acceptability of Risk.* Plenary address, International Society of Regulatory Toxicology and Pharmacology Annual Meeting, Crystal City, Virginia, 1987

*Common Management of Global Risks.* Panel session, Society for Risk Analysis Annual Meeting, Houston, Texas, 1987

*The Cultural Approach to Risk Management.* Panel session, Society for Risk Analysis Annual Meeting, Houston, Texas, 1987

*Common Management of Global Risks.* With Luther P. Gerlach, Panel session, American Sociological Association Annual Meeting, Chicago, 1987

*Improving Radiological Safety Through Organizational Design.* Plenary address, Reducing Risks Through Communication and Design, 6th University of

California Symposium on Environmental Psychology, Irvine, California, 1987

*The Fairness Hypothesis and Managing the Risks of Societal Technology Choices.* With Robin Cantor. Panel session, ASME Winter Annual Meeting, Anaheim, California, 1987

*Thinking the Unthinkable: Preparing for Global Disaster.* With Robin Cantor, Panel session, Society for Risk Analysis Annual Meeting, Boston, Massachusetts, 1986

*The Tools for the Job: Choosing Appropriate Strategies for Risk Management.* With Robin Cantor Panel session, Society for Risk Analysis Annual Meeting, Boston, Massachusetts, 1986

*Social Impact Assessment and Technology Choice.* Panel session, American Sociological Association Annual Meeting, New York, 1986

*Redefining Risk.* Keynote address, Annual Research Conference, University of Minnesota Department of Anthropology, Lake Itasca, Minnesota, 1986

*Secular Sectarians: Millenarianism and the British Far-Left.* Guest Lecture, Department of Religion, Princeton University, 1986

*How Fair is Safe Enough? The Cultural Approach to Societal Technology Choice.* With Robin Cantor. Plenary address, International Colloquium, Evaluator et Maitriser Les Risques: La Societe Face Au Risque Majeur, Centre National De Recherche Scientifique, Chantilly, France, 1986

*Rules That Keep Us Equal: The Far-Left in Britain and Anti-Nuclear Groups in the USA.* Panel session, American Anthropological Association Annual Meeting, Washington, D.C., 1985

*Not in My Backyard: The Politics of Hazardous Waste Disposal.* Department of Sociology and Criminology, Old Dominion University, Norfolk, Virginia, 1985

*The Role of Liability Preferences in Societal Technology Choices: Results of a Pilot Study.* With Robin Cantor. Panel session, Society for Risk Analysis Annual Meeting, Alexandria, Virginia, 1985

*Applied Anthropology of Industrial Society.* Guest lecture, Department of Anthropology, University of Pennsylvania, Philadelphia, 1985

*Societal and Institutional Factors in Risk Management.* Faculty Institute on Risk Assessment for Energy Production, Manpower, Education, Research, and Training

Division, Oak Ridge Associated Universities, Tennessee, 1985

*Not in My Backyard: Community Responses to Hazardous Waste Siting.* Guest lecture, Department of Anthropology and Sociology, University of Southern Mississippi, Hattiesburg, 1985

*Risk Perceptions in Developing Countries.* With T.J. Wilbanks, Panel session, 12th Annual WATtec Meeting, Knoxville, Tennessee, 1985

*Management of Occupational Radiation Hazards in Hospitals* Guest lecture, Queen's College, CUNY, New York, 1985

*Predicting Public Acceptance of Future Technologies: Advanced Concepts for Nuclear Reactors.* Guest lecture, Science and Technology Studies Program, Cornell University, Ithaca, New York, 1985

*Measuring Culture.* Guest lecture, Department of Sociology, University of Tennessee, Knoxville, 1984

*Grid/Group Analysis and Social Impacts of Hazardous Technologies.* Panel session, American Anthropological Association Annual Meeting, Denver, 1984

*Learning From the Blind Men and the Elephant, or Seeing Things Whole in Risk Management.* Panel session, Society for Risk Analysis Annual Meeting, Knoxville, Tennessee, 1984

*The Cultural Context of Criminal Behavior and Social Control.* Guest lecture, Department of Sociology, University of Minneapolis, 1984

*Culture, Institutions and Risk Management.* Panel session, Southern Sociological Society Annual Meeting, Knoxville, Tennessee, 1984

*Applied Anthropology of Science Technology and Society.* Guest lecture, Department of Sociology, University of Tennessee, Knoxville, 1984

*Grid/Group as a Model of Social Change.* Panel session, American Anthropological Association Annual Meeting, Chicago, 1983

*Public Response to Controversial Facilities: A Socio-Cultural Approach.* Panel session, Association for Public Policy and Management Annual Research Conference, Philadelphia, 1983

*Cultural Analysis of Risk Perception and Management.* Society for Risk Analysis Annual Methods Day, Oak Ridge, Tennessee, 1983

*The Perception of Occupational Hazards from Ionizing Radiation in American Medicine.* Guest lecture, International Institute of Applied Systems Analysis,

Laxenburg, Austria, 1983

*Cultural Analysis of Occupational and Environmental Hazard Management.* Guest lecture, Science, Technology and Society Program, Cornell University, Ithaca, New York, 1982

*Effects of Workplace Organization on the Perception of Occupational Hazards.* Panel session, American Anthropological Association Annual Meeting, Washington, D.C., 1982

*Risk Management and the Problem of Planning for Future Generations.* Guest lecture, Oak Ridge National Laboratory, Oak Ridge, Tennessee, 1982

*The Institutional Cultures of Risk Management.* Guest lecture, Department of Sociology, Keele University, Staffordshire, 1982

*An Anthropological Approach to the Politics of Sectarian Protest: The Far-Left in Britain and Anti-Nuclear Groups in the USA.* Guest lecture, Middlesex Polytechnic, Enfield, 1982

*Problems in the Cultural Analysis of Public Response to Radiation Hazards.* Guest lecture, Oak Ridge National Laboratory, Tennessee, 1981

*Grid/Group Analysis of Social Movements.* Guest lecture, Department of Religion, Yale University, Connecticut, 1980

*Sectarianism: Sacred and Secular.* Guest lecture, Department of Sociology, Hofstra University, New York, 1980

*An Organizational Analysis of the British Far-Left.* Centre for Occupational and Community Research, London, 1979

*The Instability of Egalitarian Sects.* Conference on Grid/Group Analysis and Pollution Theory, Russell Sage Foundation, New York, 1978

## **PARTICIPATION IN PANELS/WORKSHOPS**

Roundtable on the Sustainable City. At the Good City, Urban Transformation, Comparison, and Value. By invitation of the ESRC Urban Transformations Network, Oxford, 2018

IASS-KLASICA Symposium on Collective Behaviour Change Towards Sustainable Futures in Asian and Pacific Island and Isolated Communities, National Taiwan University, Taipei, 2016

The Planet Remade: How Geoengineering Could Change the World. Panelist by invitation of the Edinburgh Science Festival, National Museum of Scotland, Edinburgh 2016

IASS-KLASICA Workshop on Collective Behaviour Change for Sustainable Futures. Potsdam 2016

Workshop on Technology and the Future of UK Cities. Convenor on behalf of the UK Foresight Project on the Future of UK Cities and the ESRC Urban Transformations Programme, London 2015

Urban Research Consultation. Closing plenary panelist by invitation of the UCL City Leadership Initiative, London 2015

Sustainable Cities: Can Urban Leadership on Climate Change Make a Difference? Plenary panelist by invitation of the Blavatnik School of Governance, Oxford, 2014

Climate Engineering Conference 2014. Opening plenary panelist and speaker in sessions on Moral Hazard and Emergency Framing by invitation of Institute for Advanced Sustainability Studies, Berlin 2014

After the Floods: Can We Tame the Weather? Panelist by invitation of the Institute of Ideas, The Battle of Ideas, The Barbican, London 2014

New Debates in Climate Change Justice, Governance and Democracy by invitation of the Department of Politics and International Studies, University of Warwick, 2014

Manipulating the Planet: Is there a Role for Negative Emissions Technologies in Tackling Climate Change by invitation of the Policy Exchange and NESTA, Westminster, 2013

Symposium on the Global Governance of Climate Engineering. Panelist by invitation of the Marsilius Kolleg, Heidelberg University, Heidelberg, 2012

A Radical Solution: Could Geoengineering be a Useful Tool for Moderating Climate Change? Panelist by invitation of the Royal Institute for International Affairs, Chatham House 2012

Framing Climate Change Discussions on the Looming Environmental Crisis and Sustainability, Panelist by invitation of the Abdus Salam Institute for Theoretical Physics, Trieste, Italy 2012

Myopia in a World of Evidence-Based Policy. Panelist by invitation of ADC (Australian Davos Connection) Future Summit, Melbourne, Australia, 2012

Australia's Cleantech Future, Panel Chair by invitation of ADC (Australian Davos Connection) Future Summit, Melbourne, Australia, 2012

Novel multi-sector networks and entrepreneurship in urban climate governance. Co-convenor and session chair at international conference, Planet Under Pressure, London 2012

The Breakthrough Dialogues: Reinventing Liberalism. Panelist by invitation of the Breakthrough Institute, Sausalito, 2011

The Battle Against the Fates. Panelist by invitation of the Institute of Ideas, The Battle of Ideas, The Royal College of Art, London 2011

Geoengineering Governance, Science and Technology: A cross-Government Briefing. Presenter of overview of governance issues by invitation of the Department of Energy and Climate Change, Royal Society, London, 2011

Urban Health and the Physical Environment. Panel Chair for Emerging Markets Symposium: Urbanization, Health and Human Security by invitation of Green Templeton College, Oxford, 2011

Policy-based Evidence? Panelist by invitation of the Institute of Ideas, The Battle of Ideas, The Royal College of Art, London 2010

Should Science Journalists take Sides? Panel speaker in a debate convened by invitation of The Royal Institution, London 2010

Financial Times Urban Development Summit. Panelist on the Development of Knowledge Cities, Shanghai, 2010

The Future of Global Climate Negotiations. Panel speaker in a debate convened by Christian Aid, WWF and the Institute for Public Policy Research, London 2010

Shifting Power: What Does Climate Change Mean for Global Governance, The

Weidenfeld Debates 2010, by invitation of the Institute for Strategic Dialogue, Oxford 2010

Do You Believe in Geoengineering? Should scientists Intervene to Protect Us from its Consequences? By invitation of the Royal Society, Tyne and Wear Archives and Museums, Newcastle Upon Tyne 2010

Geoengineering: A Brave New World? Lecture panelist by invitation of the Royal Society, London 2010

Linking Science to Social Benefits: Why, How and When, by invitation of the Centre for Climate Policy and Research, Linköping University, Norrköping, Sweden, 2009

Workshop on Reconciling Supply and Demand for Research in the Science of Science and Innovation Policy, panelist on Organizations at the Interface, by invitation of the Research Council of Norway, Oslo, 2009

Disaster Risk Management and Climate Change Adaptation: Different or the Same? panel chair, by invitation of the International Social Science Council World Social Science Forum, Bergen, Norway 2009

Policy Education: The European Perspective, workshop panelist on Mobility and the Changing Culture of Policy Education by invitation of the Standing Committee on Social Science Evidence for Use of the US National Academies, Paris, 2009

Lessons from Bali: Implications for the EU ETS, discussant by invitation of the Institut Français de Relations Internationales, Paris, 2008

Innovation Culture or Anti-Science Britain? Final event of the ESRC Science in Society Programme, chair and organizer, London 2007

Lead Author's Meeting of Working Group III of the Intergovernmental Panel on Climate Change, by invitation of the IPCC, Beijing, China, 2006

Tomorrow's People: The Challenges and Technologies for Life Extension and Enhancement, conference chair, University of Oxford, 2006

Lead Author's Meeting of Working Group III of the Intergovernmental Panel on Climate Change, by invitation of the IPCC, Brehna, Germany, 2004

Is There Value in Inconsistency? discussant, by invitation of the Max Planck Project on Common Goods, Venice 2004

Dangerous Climate Change, session chair, by invitation of the Centre for



Environmental Risk, University of East Anglia, 2004

Scientific Connoisseurs and Other Intermediaries: Mavens, Pundits, and Critics, sponsor and opening speaker, on behalf of UK ESRC, Minster Lovell, 2004

54<sup>th</sup> Königswinter Conference, working group on science in society, by invitation of the Governments of the UK and Germany, Oxford, 2004

Globalization and Cultural Integrity, chair and organizer, by invitation of the First World Congress on Risk, Brussels, 2003

Launch of the Risk World 2020 Project, final commentary, by invitation of Shell and King's College Centre for Risk Management, University of London, 2003

Science and the UK Regions: Towards the Regionalization of Science Policy, discussant, by invitation of the Centre for Sustainable Urban and Regional Futures, University of Salford, Manchester, 2003

Towards a Multi-Level Science Policy: Regional Science Policy in a European Context, final commentary, by invitation of the Regional Studies Association, Honorable Society of Gray's Inn, London, 2003

Looking Beyond Kyoto II, panelist, by invitation of the Stockholm Environmental Institute, Stockholm, 2003

Hype, Hope and Hysteria, discussant, by invitation of the ESRC Postgraduate Genetics Forum, University of Sussex, 2003

Democratic Governance of Technological Change in the Era of Globalization, convener and organizer, by invitation of the UK ESRC and the Luso-American Foundation, Lisbon, 2003

Environment, Safety, and Risk Workshop, by invitation of BBC News, Cumberland Lodge, Windsor, 2003

Academics in the Environment Symposium, by invitation of the Ecosystems Science and Policy Center, University of Miami, 2003

Science in Society European Workshop, sponsor and chair on behalf of UK ESRC, Wiston House, Sussex, 2003

Clumsy Solutions for a Complex World, discussant, by invitation of the Max Planck Project on Common Goods, Oxford, 2003

Conference on Science and Citizenship in a Global Context: Challenges from

New Technologies, discussant on Dealing with Risk and Uncertainty, by invitation of the Institute for Development Studies, Brighton, 2002

Looking Beyond Kyoto, by invitation of the Stockholm Environment Institute, Chiang Mai, Thailand, 2002

Risk World Scenarios Workshop, by invitation of Shell and King's College Centre for Risk Management, Stamford, England, 2002

Science and Democracy: A Workshop on Science, Politics, and Governance, by invitation of the Wissenschaftskolleg zu Berlin, 2002

Anglo-American Humans and Nature Forum, Inaugural Meeting, by invitation of the Environmental Change Institute, Oxford University, Oxford 2002

Muscipoli Workshop on Design and Delivery of Inter- and Pluri- Disciplinary Research, by invitation of Le Maison de Sciences de l' Homme, Paris, 2002

Biodiversity on the Brink: Challenges to Science and Policy, panelist, by invitation of the Nature Conservancy, Columbia University, New York, 2001

Summer Institute on Global Environmental Problems, lecturer by invitation of the Luso-American Foundation, Lisbon, Portugal, 2001

Experts' Meeting on IPCC Special Report on Climate Change and Sustainable Development, by invitation of the Intergovernmental Panel on Climate Change, World Bank, Washington DC 2001

Workshop on Perspective-Based Envisioning Tools, convener and chair of organizing committee, International Research Institute for Climate Prediction, Palisades, New York 2001

Environmental Policy Curriculum Workshop, by invitation of the Columbia Earth Institute, Biosphere 2 Center, Oracle Arizona, 2000

NOAA Climate and Global Change Review Panel, final commentary and chair of wrap-up session, by invitation, NOAA Office of Global Programs, Xerox Document University, Leesburg, Virginia, 2000

Consultative Workshop on Earth Systems Engineering, by invitation of the National Academy of Engineering, Washington DC, 2000

Lead Author's Meeting of Working Group III of the Intergovernmental Panel on Climate Change, by invitation of the IPCC, Cape Town, 2000

Mexico on the Threshold of a New Century, Chair of plenary session on Urban

Sustainability by invitation of Columbia University School of International and Public Affairs, Mexico City, 2000

Lead Author's Meeting of Working Group III of the Intergovernmental Panel on Climate Change, by invitation of the IPCC, Eisenach, Germany, 2000

Workshop on Designing Effective Assessments of Global Environmental Issues, by invitation of the Belfer Center for Science in International Affairs, Warrenton, Virginia. 1999

Lead Author's Meeting of Working Group III of the Intergovernmental Panel on Climate Change, Lillehammer, Norway, by invitation of the IPCC 1999

Workshop on Prediction in the Earth Sciences: Use and Misuse in Policy Making, by invitation of the Geological Society of America, Estes Park, Colorado, 1998

Workshop on El Niño Forecasting Pilot Project, by invitation of National Oceanic and Atmospheric Administration, Santa Monica, California, 1998

Second Workshop on Ecological Economics and Sustainable Governance of the Oceans, by invitation of the Luso-American Foundation, Lisbon, Portugal, 1998

Workshop on the Comparative Study of Values in Public Policy Making, by invitation of the Carnegie Council on Ethics and International Affairs, New York, 1998

Workshop on Multicriteria Decision-Making Methods in Integrated Assessment, by invitation of Johns Hopkins University, Baltimore, Maryland, 1998

Workshop on Climate Modeling, by invitation of JASONS/USGCRP, La Jolla, California, 1998

Workshop on Sustainable Governance of the Oceans, by invitation of the Luso-American Foundation, Lisbon, Portugal, 1997

Human Choice and Climate Change, Panel convener and chair, Second Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Laxenberg, Austria, 1997

Workshop on Climate Change Policy in Germany and the United States, by invitation of the American German Academic Foundation, Berlin, Germany, 1997

Panel on Human Population, Climate Change, and Biodiversity: Science and Policy Issues, by invitation of AAAS Directorate for International Programs, AAAS Annual Meeting, Seattle, 1997

Second Workshop on Interactive Social Science, by invitation of the UK Social

Science Research Council, York, 1996

Energy and Environmental Policy: Global, National, and Local Tensions, panel discussant by invitation of Society for Applied Anthropology, Baltimore, Maryland, 1996

US-Japan Bilateral Workshop on Research Cooperation and Land Use and Cover Change, by invitation of the Japanese Institute for Science and Technology, Tsukuba, Japan, 1996

Basic Research Needs for Environmentally Responsive Technologies of the Future, organizing committee member and session co-convenor by invitation of the US National Science Foundation and Department of Energy, New Orleans, 1996

Human Choice and Climate Change, workshop co-convenor on behalf of Battelle, Pacific Northwest Laboratories and the East-West Academy, Berlin, Germany, 1995

Workshop on Interactive Social Science, by invitation of the UK Economic and Social Research Council, London, 1995

Symposium on Pacific Energy Cooperation, panelist on international environmental cooperation by invitation of the Institute of Energy Economics, Tokyo, Japan, 1994

Workshop on Equity and Social Considerations, by invitation of Working Group III, Intergovernmental Panel on Climate Change, Nairobi, Kenya, 1994

Workshop on the Human Dimensions of Global Change, by invitation of the International Group of Funding Agencies and the European Commission Directorate-General of Science, Research and Development Brussels, Belgium, 1994

Workshop on Research on the Human Dimensions of Global Change, by invitation of the National Research Council Committee on the Human Dimensions of Global Change, Washington, D.C., 1994

Breaking the Mold: Global Change, Social Responsibility, and National Research Policy, by invitation of the National Forest Service, Monterey, California, 1994

National Forum on Environmental and Natural Resources Research and Development, by invitation of the Advisor to the President for Science and Technology, Washington, D.C. 1994

Workshop on Human Needs and Wants in the Context of Climate Change, by

invitation of St. Anne's College, Oxford, 1994

Uncertainty and Global Climate Change, by invitation of National Oceanic and Atmospheric Administration, Department of Energy, and National Acid Precipitation Program, Knoxville, Tennessee, 1994

Climate Change and Political Action, by invitation of the Zentrum for interdisziplinäre Forschung, Bielefeld, Germany 1993

International Workshop on Structural Adjustment of the North, South, and East, by invitation of the International Academy of the Environment, Geneva, Switzerland, 1993

Human Dimensions of Global Environmental Change Workshop, by invitation of NASA, Goddard Space Flight Center, Greenbelt, Maryland, 1993

Workshop on Risk and Fairness, by invitation of the International Institute for Applied Systems Analysis, Laxenburg, Austria, 1993

Global Governability, by invitation of the Centre for the Study of Global Governance, London School of Economics, Richmond, United Kingdom, 1993

Climate Treaties and Models: Key Issues in Evolving International Management of Climate Change, by invitation of The Office of Technology Assessment, Congress of the United States, Washington, D.C., 1993

Workshop on Global Change Assessment for Forestry, Agriculture, and Water Resources, keynote speaker and program committee member by invitation of Earth Systems Science Center, Pennsylvania State University, College Station, Pennsylvania, 1992

NOAA Human Dimensions of Global Change Workshop, keynote speaker by invitation of NOAA Office of Global Programs, Washington, DC, 1992

Symposium on Environmental Literacy, by invitation of the Rene Dubos Center for the Human Environment, New York, 1992

Global Change Institute on Industrial Ecology and Global Change, by invitation of the Office of Interdisciplinary Earth Studies, UCAR, Snowmass, Colorado, 1992

Workshop Towards International Cooperation in Research Related to Sustainable Solutions to the Greenhouse Problem, by invitation of the National Institute of Public Health and Environmental Protection, Amsterdam, Netherlands, 1992

Global Change Institute on Global Land-Use/Cover Change, rapporteur, working group to produce a "Wiring Diagram of Land Use/Cover Change," by invitation of

the Office for Interdisciplinary Earth Studies, UCAR, Snowmass, Colorado, 1991

The Regions and Global Warming: Impacts and Response Strategies, cosponsor and working group moderator by invitation of the Houston Advanced Research Center, The Woodlands, Texas, 1991

Dahlem Workshop on Limiting the Greenhouse Effect: Options for Controlling Atmospheric CO<sub>2</sub> Accumulation, moderator, Working Group 3 Social and Institutional Barriers to Reducing CO<sub>2</sub> Emissions, by invitation of Dahlem Konferenzen der Freien Universitat, Berlin, 1990

International Symposium on Social Aspects of Facility Planning and Management for Hazardous Materials/Wastes, by invitation of the Institute for Social Impact Assessment, Toronto, 1990

Only One Earth Forum: Living with Risk, by invitation of the Rene Dubos Center for the Human Environment, New York, 1990

Workshop on National Implementation of International Accords, by invitation of the Social Science Research Council, Committee for Research on Global Environmental Change, Hamilton, Bermuda, 1990

Symposium on International Conflict and Cooperation: Environmental Security in the 1990s, by invitation of the Center for International Cooperation and Security Studies, University of Wisconsin-Madison, 1990

The Scientific Challenges of NEPA: New Directions Based on 20 Years Experience, conference organizing committee member and chair of session on "Impacts of NEPA on Environmental Policies of Other Nations" on behalf of Oak Ridge National Laboratory, Knoxville, Tennessee, 1989

Symposium on Climate Change Policy with Congressman George Brown, Steve Rayner, and Stephen Schneider, by invitation of Sixth Student Pugwash Conference, Boulder, Colorado, 1989

Consultation on Resource and Environmental Constraints on Sustainable Growth in Agricultural Production, by invitation of the Center for International Food and Agricultural Policy, the Humphrey Institute for Public Affairs, Minneapolis, 1989

International Workshop on Understanding Global Environmental Change: Contributions of Risk Analysis and Management," by invitation of the Center for Technology Environment and Development, Clark University, Worcester, Massachusetts, 1989

Symposium on "Right-to-Know: An Opportunity to Learn," by invitation of Cornell University Program for Comparative and Environmental Toxicology, Albany, New York, 1989

Workshop on Human Interactions with Global Change, by invitation of the National Research Council Committee on Global Change, Washington, D.C., 1989

Research Workshop, Managing the Global Commons: Decision Making and Conflict Resolution in Response to Climate Change, speaker and workshop organizer on behalf of Oak Ridge National Laboratory and the University of Tennessee, Knoxville, Tennessee, 1989

Symposium on Risk and the Environment, by invitation of the Graduate School of Public Affairs, University of Washington, Seattle, 1989

Plenary Panel Encouraging Opportunities for Reducing Risks, at "International Workshop on Climate Change: Problems and Options for Practical Response" by invitation of Evangelische Akademie, Loccum, Federal Republic of Germany, 1989

International Workshop on Risk Communication, by invitation of KFA Julich GmbH, Julich, Federal Republic of Germany, 1988

International Symposium on Global Environmental Change and the Public, by invitation of KFA Julich GmbH, Julich, Federal Republic of Germany, 1988

Workshop on Bhopal: Policy Implications and Research Priorities, by invitation of Cornell University, Ithaca, New York, 1988

Workshop on Assessing Social and Economic Effects of Perceived Risk, by invitation of Battelle Human Affairs Research Centers, Seattle, Washington, 1987

Preliminary Workshop on Cross National Comparisons of the Culture of Environmental Controversies, by invitation of the Humphrey Institute for Public Affairs, Minneapolis, 1985

Symposium on Constructing Right Categories, by invitation of Northwestern University, Evanston, Illinois, 1985

Workshop on The Public Perception of Technological Risk, by invitation of the Electric Power Research Institute, Watsonville, California, 1981