

Innovation, Sustainability, Development: A New

MANIFESTO

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Session 1: Themes, challenges and opportunities – international debates

Dr Adrian Ely

Adrian Ely is a research fellow at SPRU –Science and Technology Policy Research at the University of Sussex and a member of the STEPS Centre. His research experience has primarily focussed in the area of biosafety and biotechnology policy in Europe, the USA, China and to a lesser extent East Africa. More broadly, he is interested in the contribution of innovation to sustainability. He is convening the project “Innovation, Sustainability, Development: A New Manifesto”.

Prof Geoffrey Oldham

Geoffrey Oldham’s early career took him from the Standard Oil Company and the Scientific Directorate of OECD to Sussex, where he helped start SPRU in 1966, later acting as director from 1980 to 1992. In 1970 he was one of the authors of the original «Sussex Manifesto». He was also instrumental in the establishment of the International

Development Research Centre, later directing its Science and Technology Policy Programme for ten years and serving as Science Adviser to the President of IDRC from 1992 to 1996. In recent years he contributed to the design of the Science and Development Network (www.Scidev.net) and previously chaired the network's Board of Trustees. Geoffrey Oldham has served on numerous science and technology policy advisory bodies, most recently the UN Commission on Science and Technology for Development, where he chaired the working groups on Gender and Science and Technology, and on Information Technologies and Development. He is an Honorary Professor with SPRU at the University of Sussex.

Prof Banji Oyelaran-Oyeyinka

Until recently, Banji Oyeyinka was a professor of Technology, Innovation and Development and a senior researcher with the UNU/INTECH, now UNU/MERIT. Prior to his INTECH appointment, he served as a Senior Economic Officer with the UNCTAD, Geneva, and coordinated the UN Special Panel on the Review of the UN Programme of Action for the Least Developed Countries (LDCs) in the period 1990-2000. Before then he was a professor of Technology Management at the Nigerian Institute of Social and Economic Research (NISER), Ibadan, Nigeria. At the national level he was involved in the review of Nigeria's Industrial Policy and coordinated the Industry, Science, and Technology Committees that drew up the country's Vision 2010 document and served as the National Focal Point of the African Technology Policy Studies (ATPS) Network. He has served as consultant to UNIDO, UNCTAD, ILO, and ECA and authored several journal articles and books, including "Uneven Paths of Development: Innovation and Learning in Asia and Africa" with Rajah Rasiah (Edward Elgar, 2009), and "Latecomer Development: States, Innovation and Knowledge in Economic Growth" with Padmashree Gehl Sampath (Routledge, 2009).

Dr Tony Marjoram

Tony Marjoram is the Senior Programme Specialist responsible for Engineering Sciences and Technology in the Division of Basic and Engineering Sciences of the Natural Sciences Sector of UNESCO. Dr Marjoram has worked for UNESCO since 1993, and has over 25 years experience in international policy, planning and management in engineering, science and technology for development in university, intergovernmental and NGO contexts. He was the Senior Research Fellow in Development Technologies at the University of Melbourne from 1987-93 and a Development Fellow at the Centre for Applied Studies in Development and then Director of Technology at the Institute for Rural Development at the University of the South Pacific from 1980-87. Dr Marjoram created, developed and manages the Daimler-UNESCO Mondialogo Engineering Award and was a member of the UN Millennium Project Task Force on Science, Technology and Innovation. He has published books and over 50 papers, articles and reports in national and international journals, and is on the editorial boards of several journals.

Session 2: Grassroots/bottom up innovation: How to facilitate emergence and flourishing

Prof Anil K Gupta

Anil K Gupta holds the Kasturbhai Lalbhai Chair in Entrepreneurship at the Indian Institute of Management. His interests include supporting grassroots innovators, blending 'formal' and 'informal' science, and creating knowledge networks. He is President of the Society for Research and Initiatives for Sustainable Technologies and Institutions (SRISTI), and executive vice chair of India's National Innovation Foundation. He is also Founder of the HoneyBee Network.

Monique Salomon

Monique Salomon is a researcher with the Centre for Environment, Agriculture and Development (CEAD) at the University of KwaZulu-Natal. She was the original initiator and coordinator of the Prolinnova-South Africa Country Programme (CP) and an elected CP member of the first Prolinnova Oversight Group (POG), during the time when she was Director of the NGO called Farmer Support Group. She then decided to focus on her doctoral studies, which deal with innovation, participation and natural resource management (NRM), specifically by livestock-keepers. She is co-author of the book on RAAKS (Rapid Assessment of Agricultural Knowledge Systems) together with Paul Engel. Monique is a member of the National Steering Group of Prolinnova-South Africa and the Country Coordinator of PELUM (Participatory Ecological Land Use Management) in South Africa.

Hiroyuki Kubota

Hiroyuki Kubota is Executive Advisor to DG, Rural Development Department of the Japan International Cooperation Agency. After an MSc in soil science specialising in low productivity soil environments he joined the Japanese volunteer service to lecture on soil surveys and analysis in Tanzania. He spent a short time working on a biomass project in Sumatra Indonesia, thereafter joining the Japanese Foreign Service. Here, he has been working on policies around technical cooperation/emergency aid and aid coordination, and in the field (at embassies in Sri Lanka, Ireland and Ghana). In between he has worked for the World Bank and EBRD. He is currently in charge of JICA's drive on food productivity, particularly in SSA, focussing on productivity issues with a whole value chain perspective, liaison with the agricultural research community to maximize synergies between research and development/generation of technology and dissemination, as well as devoting significant efforts to international aid coordination and advocacy.

Dr Adrian Smith

Adrian Smith is a Research Fellow at SPRU and a member of the STEPS Centre and the Sussex Energy Group. Adrian has a first degree in Mechanical Engineering (Bristol), a Masters degree in Environmental Technology (Imperial College, London), and a DPhil in Science & Technology Policy Studies (Sussex). Adrian specialises in critical analysis of environmental policy processes; and research into relationships between technology, society and sustainable development.

Session 3: What opportunities are presented by the global redistribution of innovative activity?

Dr James Wilsdon

James Wilsdon is Director of the Science Policy Centre at the Royal Society, the UK's national academy of science. The SPC was established to provide high-quality scientific

advice to policymakers, and to map and analyse the latest developments in science policy around the world as the Society prepares for its 350th anniversary in 2010. From 2001 to 2008, he worked at Demos, first as Head of Strategy, then Head of Science and Innovation, where he contributed to “China: the next science superpower?” and “The Atlas of Ideas: How Asian innovation can benefit us all.”

Prof Xiulan Zhang

Xiulan Zhang is Professor and Director of the School of Social Development and Public Policy at Beijing Normal University, People’s Republic of China. She obtained her PhD in social welfare from the University of California, Berkeley and is currently the national lead expert in social assistance; is a member of the Academic Advisory Committee of the Ministry of Civil Affairs, the Academic Advisory Committee of the National Aging Association, the Expert Committee of the State Council Urban Resident Health Insurance Evaluation Commission, and is the director of Social Safety Net Research Base of the Ministry of Education and the vice-president of the National Social Policy Association in China. She is on the board of the Institute of Development Studies (IDS).

Dr Suman Sahai

Suman Sahai originally trained in genetics, and held posts on the faculties at the University of Alberta, University of Chicago and Heidelberg University in the 1970s and 1980s before returning to her native India. There she founded the NGO Gene Campaign (which now has a presence in 17 states in India) in 1993, and has since been working on issues around bioresources, farmers’ and community rights, intellectual property rights and indigenous knowledge, biopiracy, issues related with GE food and crops. Dr Sahai chaired the Planning Commission Task Force on Biodiversity and Genetically Engineered Organisms for the Eleventh Plan and has served on the National Biodiversity Board, the Expert Committee on Biotechnology Policy and the Bioethics Committee of the Indian Council of Medical Research. In recognition of her work, Dr Sahai was honoured with the order of the Golden Ark (Netherlands) in 2001.

Dr Anabel Marin

Anabel Marin is a research fellow at SPRU. Her initial training is in economics and this was followed by a Masters degree in industrial economy and development and a PhD in science and technology policy studies. Her broad area of research is concerned with innovation, development and international economics. Much of her work up to now has been on the effects of MNC activity on technological change and productivity in host developing countries. On this topic she has conducted studies on Argentina, India, Brazil and China. She is also currently involved in two projects on Latin America about innovation and diversification in industries based on natural resources. Underlying this work are analytical and policy interests in the association between structural change and development.

Session 4: Internationalisation of science, technology and innovation policy: What room for “constitutional” reform?

Professor Andy Stirling

Andy Stirling is Science Director at SPRU (science and technology policy research) at the University Sussex and co-directs the joint 'STEPS' Centre (on 'Social, Technological and Environmental Pathways to Sustainability') jointly hosted by the Institute for

Development Studies and SPRU. With a background in astrophysics and science studies, he gained an MA (Hons) in archaeology and social anthropology (Edinburgh, 1984) and a DPhil in science and technology policy (Sussex, 1994). In the 1980's, he worked as a field archaeologist and then as a disarmament and environment activist, later serving on the Board of Directors for Greenpeace International in the 1990s. His current research focuses on various aspects of the governance of science and innovation. In particular, he has done work in the area of: (i) risk and technology assessment; (ii) uncertainty and precaution; (iii) the dynamics of technology change; (iv) issues in 'public engagement'; (v) transitions to sustainability; and (vi) diversity and resilience in technological systems. He is a member of editorial boards for three academic journals and author of more than eighty peer-reviewed papers. He has served on a number of government advisory bodies including the European Commission's Science in Society Advisory Committee, Expert Group on Science and Governance and Sustainable Development Advisory Committee. In the UK, he has been a member of the GM Science Review Panel, the Advisory Committee on Toxic Substances, the Science Advisory Council (environment ministry) and the public engagement Steering Group (innovation ministry).

Dr Des Turner MP

Des Turner is Member of Parliament for Brighton Kemptown, as well as being a Member of the House of Commons Science and Technology/ Innovation Committee. He has a special interest in renewable energy, and sat on the committee that scrutinised the UK Climate Change Bill in 2007. He does not intend to contest next year's general election.

Professor Sir Richard Jolly

Richard Jolly was previously director, and is now Honorary Professor and Research Associate of the Institute of Development Studies at the University of Sussex. He is co-director of the UN Intellectual History Project and has recently contributed to "Ahead of the Curve? UN Ideas and Global Challenges" (2001), "UN Contributions to Development Thinking and Practice" (2004) and "UN Ideas that Changed the World" (2009).

Professor Brian Wynne

Brian Wynne is Professor of Science Studies, and Associate Director of the ESRC Centre for Economic and Social Aspects of Genomics (CESAGEN) at Lancaster University. He currently involved in Cesagen research on "bioknowledge economies, publics and sustainable innovation", on UK-China networks of low-carbon innovation, and on technical and social aspects of modelling of zoonosis risks.

Responses from the international community, government, media, civil society and the private sector

David Dickson

David Dickson is the founding director of the Science and Development Network (Scidev.Net), a website devoted to news and analysis about science, technology and the developing world. A mathematics graduate by training, he worked briefly for the British Society for Social Responsibility in Science, and subsequently spent almost three decades as a professional science journalist. As such, he has worked on publications

that include The Times Higher Education Supplement, Nature, Science and New Scientist, specialising in reporting on developments in science and technology policy, and including spells reporting on these issues from Washington and Paris. He was appointed news editor of Nature in 1993, and left to set up SciDev.Net in 2001. He is the author of Alternative Technology and the Politics of Technical Change (London, 1973) and The New Politics of Science (University of Chicago Press, 1986).

Dr David Grimshaw

David is Head of the New Technologies International Programme with Practical Action and is currently seconded to the Kathmandu office in Nepal. The vision of this programme is: a world where science-led new technologies deliver products which fulfil human needs rather than consumer wants. He previously held academic positions at the University of Leeds and Warwick Business School, University of Warwick, and Cranfield School of Management. He has a PhD in information systems from Warwick Business School. Recently completed research includes Connecting the First Mile, Podcasting in the Andes, and Nano-dialogues in Zimbabwe. He has just completed collaboration with the Universities of Sussex, Lancaster, and Durham on an ESRC funded project entitled, "Delivering Public Value from New Technologies".

Joachim Voss

Joachim Voss, a citizen of Canada, joined the International Center for Tropical Agriculture (CIAT) as its Director General in January 2000 and retired from that position in January 2008. Prior to that he had worked from 1988-1999 with the International Development Research Centre in Canada, where his last post was as Senior Research Manager of IDRC's Research Division. Voss also worked as a Senior Scientist for CIAT's Central Africa Program during 1984-1988. He holds a Doctoral Degree of Philosophy on Economic Anthropology from the University of Toronto and a Master's in Rural Sociology from the University of Guelph. Voss has been Board member or chairperson of several international initiatives such as the Consortium for Sustainable Andean Development (CONDESAN), the CGIAR Gender Committee, the CGIAR Integrated Natural Resource Management Task Force, and the Multi-Stakeholder Forum on Intellectual Property and Access Rights in Plant Genetic Resources (CRUCIBLE). He has conducted research and published extensively on soil fertility management, farming systems, participatory breeding, indigenous knowledge, and social cultural aspects of development.

Christine Drury

Christine Drury is an independent consultant, and was previously NGO and Consumer Affairs Manager at Unilever.