



CONFERENCE PROGRAMME
(Final)

**Confronting the Challenge of Technology for Development:
Experiences from the BRICS**

**29-30 May 2008
Oxford**

A conference organized by the
**Sanjaya Lall Programme for Technology and Management for Development
(SLPTMD)**

Department of International Development (QEH)

Supported by:

**United Nations Industrial Development Organization (UNIDO)
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Oxford Development Studies**



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PROGRAMME

THURSDAY, 29 May

08:00 – 09:00	Registration	(QEH Hall, 3 Mansfield Road)
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09:00 – 09:20	Welcome	(Mansfield College Chapel)
	Chair: Sir Richard Peto (University of Oxford)	
09:00-09:10	Edmund Valpy FitzGerald (Director of QEH, University of Oxford)	
	Welcome	
09:10-09:20	Rajah Rasiah (University of Malaya, UNU-MERIT, University of South Australia), Xiaolan Fu (University of Oxford) Sanjaya Lall and the Sanjaya Lall Programme	

09:20 – 10:30	Plenary Session I: Technology and the developing countries	(Mansfield College Chapel)
	Chair: Edmund Valpy FitzGerald (University of Oxford)	
09:20-09:55	Augusto L. Alcorta (UNIDO) “Long-term productivity trends: who's catching up, who's falling behind and why?”	
09:55-10:30	William Maloney (World Bank) “Rethinking Innovation Diagnostics in Developing Countries”	

10:30 – 11:00	Coffee break	(Mansfield College Chapel)
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11:00 – 13:00	Plenary Session II: Experiences from the BRICS	(Mansfield College Chapel)
	Chair: Frances Stewart	
11:00-11:30	Ajit Singh (University of Cambridge) “Does Fast Growth in India and China Harm U.S. Workers? Insights from Simulation Evidence”	
11:30-12:00	Xielin Liu , (Chinese Academy of Science) “The Chinese way of catch-up and innovation: achievement and challenge”	
12:00-12:30	Jorge Katz (University of Chile) “Structural Change, domestic technological capabilities and economic development”	
12:30-13:00	David Kaplan (University of Cape Town) “Science and Technology Policy in South Africa: A Critical Assessment Of Past Performance And Of Proposed Future Directions”	

13:00-14:00	Lunch break	(QEH Hall, 3 Mansfield Road)
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14:00 – 15:30 Parallel Sessions 1:

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- Session 1.1** **BRICS IN THE WORLD ECONOMY** (QEH, Seminar Room 1)
Chair: Deepak Nayyar (Jawaharlal Nehru University)
- 14:00-14:30 **Alan Rugman** (Indiana University)
“Theoretical Aspects of Multinational Enterprises from Emerging Economies, with Particular Reference to China”
- 14:30-15:00 **Raphie Kaplinsky** (Open University)
“China and the Terms of Trade: The Challenge to Development Strategy in SSA”
- 15:00-15:30 **Satoshi Inomata** (Institute of Developing Economies, IDE)
“The BRICs International Input-Output Table: what it is and how to use it”
- Session 1.2** **FDI SPILLOVERS AND INNOVATION** (QEH, Seminar Room 2)
Chair: Luc Soete (UNU-MERIT)
- 14:00-14:30 **Preet S. Aulakh** (York University, Toronto), **Raveendra Chittoor**, **Sougata Ray** (Indian Institute of Management Calcutta), **MB Sarkar** (University of Central Florida)
“Global Integration and Innovation Capabilities in Emerging Economies: Evidence from the Indian Pharmaceutical Industry”
- 14:30-15:00 **Juha Väättänen**, **Daria Podmetina** and **Marina Aleksandrova** (Lappeenranta University of Technology)
“The role of foreign trade and investments in the development of innovative capacity- Case of Russian enterprise”
- 15:00-15:30 **Xiaolan Fu** (University of Oxford) and **Yundan Gong** (Nottingham University)
“Directed technical change, foreign and indigenous innovation efforts and drivers of technological upgrading: evidence from China”
- Session 1.3** **FDI AND ECONOMIC GROWTH** (QEH, Meeting Room A)
Chair: Beata Javorcik (University of Oxford)
- 14:00-14:30 **Rajneesh Narula** (University of Reading and UNU-MERIT) and **Irina Jormanainen** (Helsinki School of Economics)
“The limits of FDI-led growth in transition economies: a systems approach”
- 14:30-15:00 **Klaus E. Meyer** (University of Bath) and **Evis Sinani** (Copenhagen Business School)
“When and Where Does Foreign Direct Investment Generate Positive Spillovers? A Meta Analysis”
- 15:00-15:30 **Kenneth E. Jackson** (University of Auckland)
“Diaspora and Development: Technological change as a facilitating and enhancement tool”
- Session 1.4** **INNOVATION MANAGEMENT** (Old Dining Room, Harris Manchester College)
Chair: Martin Bell (SPRU, University of Sussex)
- 14:00-14:30 **Carl Dahlman** (Georgetown University)
“Innovation Strategies of three of the BRICS: Brazil, India and China - What can we Learn from Three Different Approaches?”
- 14:30-15:00 **Rajah Rasiah** (University of Malaya, UNU-MERIT, University of South Australia)
“Systemic Pillars and Technological Intensities in Automotive Firms in Brazil, India and South Africa”
- 15:00-15:30 **Xin Pu**, **Jizhen Li** and **Henryuan Zhu** (Tsinghua University, Beijing)
“A cross-national study of success factors in innovation projects: China and developed countries”

15:30 – 16:00 Coffee break(QEH Hall)

16:00 – 18:00 Parallel Sessions 2

- Session 2.1** **INNOVATION MANAGEMENT** (QEH, Seminar Room 1)
- Chair: Mammo Muchie** (Aalborg University, NRF/DST SARCHI, Tshwane University Pretoria)
- 16:00-16:30 **Carlo Pietrobelli** (University of Rome)
“Innovation Systems and Global Value Chains”
- 16:30-17:00 **Michael H. Best** (University of Massachusetts Lowell)
“Management of Rapid Growth: Production Capabilities, Business Models, and Industrial Transitions”
- 17:00-17:30 **Jin Chen** (Zhejiang University)
“The Development of Indigenous Innovation Capability in China: An Evolutionary Perspective”
- 17:30-18:00 **Lucia Cusmano, Andrea Morrison** (Bocconi University, Milan), **Roberta Rabelotti** (Università del Piemonte Orientale, Novara)
“Catching up in Sectoral Systems of Innovation, A Comparative Study of the Wine Sector in Chile, Italy and South Africa”
- Session 2.2** **INNOVATION SYSTEMS** (QEH, Seminar Room 2)
- Chair: Carl Dahlman**
- 16:00-16:30 **Joerg Mayer** (UNCTAD)
“Finance of Innovative Investment”
- 16:30-17:00 **Linda Yueh** (University of Oxford)
“Patent law and innovations in China”
- 17:00-17:30 **Xuan Li and Yogesh Pai** (South Centre)
“Patent Application as Indicator of the Geography of Innovation Activities: Problems and Perspectives”
- 17:30-18:00 **S. Reza Salami** (University of Allameh)
“Reshaping and Reforming National Innovation System toward Knowledge based economy, some particular lessons from Iran's experience”
- Session 2.3** **EXPORTS and DEVELOPMENT** (QEH, Meeting Room A)
- Chair: Rajneesh Narula** (University of Reading, UNU-MERIT)
- 16:00-16:30 **Beata Javorcik** (University of Oxford)
“Shipping Good Tequila Out: Investment, Domestic Unit Values and Entry of Multi-product Plants into Export Markets”
- 16:30-17:00 **Albert Park** (University of Oxford)
“Exporting and Firm Performance: Chinese Exporters and the Asian Financial Crisis”
- 17:00-17:30 **Oana Branzei** (University of Western Ontario), **Preet S. Aulakh** (York University, Toronto) and **Raveendra Chittoor** (Indian Institute of Management Calcutta)
“Internationalization Traps in Emerging Economies: Capability Erosion in Early Exporters from Brazil, Chile and Mexico”
- 17:30-18:00 **Flavia Carvalho** (UN-MERIT Maastricht)
“What explains Brazilian Multinationals? An investigation on the relationship between Internationalization and economic structure.”

Section 2.4 **ICT FOR DEVELOPMENT**

(Harris Manchester College,
Old Dining Room)

Chair: Raphie Kaplinsky (Open University)

16:00-16:30 **Michael Best** (Georgia Institute of Technology)
“Reflections on (un)sustainability: The Sustainable Access in Rural Internet (SARI) Project Nearly One Decade On”

16:30-17:00 **Gabriele Suder** (CERAM Business School)
“ICT at the service of conflict prevention and social development- Microsoft’s experience in BRICS”

17:00-17:30 **Mary Jane C. Parmentier** and **Patience Akpan-Obong** (Arizona State University – Polytechnic Campus)
“Information and Communications Technologies for Integration and Development: A Comparative Study of Brazil and South Africa in their Regional Contexts”

17:30-18:00 **P. Clint Rogers** (Marriott School of Management, BYU), **Jason Fairbourne** (BYU), **Robert C. Wolcott** (Kellogg School of Management)
“The Diffusion of Innovations in Emerging Economies through Microfranchising”

19:30

Conference Dinner
Trinity College, Broad Street

FRIDAY, 30 MAY

09:00 – 10:30 Parallel Sessions 3:

Session 3.1	<u>INNOVATION MANAGEMENT</u>	(QEH, Seminar Room 1)
	Chair: Carlo Pietrobelli (University of Rome)	
09:00-09:25	Eric Thun (University of Oxford) “Industrial Upgrading in China”	
09:25-09:50	Faith Hatani (University of Surrey) “The logic of spillover interception: The impact of global supply chains in China”	
09:50-10:15	S. Visalakshi (National Institute of Science, Technology & Development Studies) “Capabilities in Commercialisation of Biotechnology in India: An Analysis”	
10:15-10:40	Daria Podmetina and Juha Väättänen (Lappeenranta University of Technology) “ICT Sector development in Russia: from hardware imports to software exports”	
Session 3.2	<u>INDIGENOUS VS FOREIGN INNOVATION CAPABILITIES</u>	(QEH, Seminar Room 2)
	Chair: Jin Chen (Zhejiang University)	
09:00-09:30	Xibao Li (Tsinghua University) “External Technology Purchase and Indigenous Innovation in Chinese Hi-Tech Industries”	
09:30-10:00	Eliane Franco, Pradeep Kanta Ray (University of New South Wales) and Sangeeta Ray (University of Sydney) “Innovation Practices of Multinational Affiliates in Brazil and India”	
10:00-10:30	Iris Xiaohong Quan (San Jose State University) “How presence of MNC R&D influences local innovative capacity- empirical study on MNC R&D labs in China”	
Session 3.3	<u>TECHNOLOGY AND DEVELOPMENT</u>	(QEH, Meeting Room A)
	Chair: Gabriele Suder (CERAM Business School)	
09:00-09:30	Aaron Shaw (UC Berkeley) “Insurgent Expertise: How 'Software Livre' Re-Politicized the Knowledge-Based Economy in Brazil”	
09:30-10:00	Gianluca Misuraca and (Swiss Federal Institute of Technology, EPFL) “ICTs for Development in Emerging Countries: Revisiting the “Knowledge Equation”, beyond e-Government”	
10:00-10:30	Joyojeet Pal (UC Berkeley) “Computers and the Promise of Development: Aspiration, Neoliberalism and ‘Technolity’ in India’s ICTD enterprise”	
Session 3.4	<u>INNOVATION MANAGEMENT</u>	(Old Dining Room, Harris Manchester College)
	Chair: Anupam Khanna (World Bank)	
09:00-09:30	Mammo Muchie (Aalborg University, NRF/DST SARCHI, Tshwane University Pretoria) “Evolutionary Economic Theory and the National Innovation System Perspective for an Integrated African National Structural Transformation”	
09:30-10:00	Rossitza Rousseva (UNU-MERIT, Maastricht) “Approach for analysing capabilities in latecomer software companies”	
10:00-10:30	Vinish Kathuria and Subash Sasidharan (IIT Bombay, India) “Foreign Direct Investment and R&D: Substitutes or Complements - A case of Indian Manufacturing after 1991 reforms”	

10:30 – 11:00 *Coffee break* (QEH Hall)

11:00 – 13:00 **Parallel Sessions 4**

Session 4.1 **ICT AND DEVELOPMENT** (QEH, Seminar Room 1)

Chair: Michael Best (Georgia Institute of Technology)

11:00-11:30 **Aishwarya Lakshmi Ratan** (Microsoft Research India) and **Maresh Gogineni** (London School of Economics)
“Cost Realism in Deploying Technology for Development”

11:30-12:00 **Xiaolan Fu and Christine Polzin** (University of Oxford)
“Does modern technology work for the rural? ICT and rural cooperative banks in India”

12:00-12:30 **Graziella Cardoso Bonadia, Cristiane Midori Ogushi, Esther Menez, Giovanni Moura de Holanda** (Research and Development Center in Tele)
“To be or not to be in telecenters: survey and analysis on ICTs’ attractiveness”

12:30 – 13:00 **Shahriar Akter** (East West University) and **Mahfuzur Rahman** (Leeds Metropolitan University)
“Developing a sustainable village phone model on mobile information services to serve the rural developing world”

Session 4.2 **FDI SPILLOVERS** (QEH, Seminar Room 2)

Chair: Francis Teal (University of Oxford)

11:00-11:30 **Jing Li** (Simon Fraser University), **Dong Chen** (Peking University), **Daniel Shapiro** (Simon Fraser University)
“FDI Knowledge Spillovers and Product Innovations of Chinese Firms”

11:30-12:00 **Sabita Tripathy** (University of Bath)
“Are Foreign Firms Allocatively Inefficient? A Study of Manufacturing Industries in India”

12:00-12:30 **Miao Fu and Tieli Li** (Guangdong University of Foreign Studies)
“Human Capital as a Determinant of FDI: Technology spillovers and its Threshold Effects in China”

12:30 – 13:00 **Charles Newman and Jane Ross** (University of Maryland)
“Information Technology Outsourcing Industries in the BRICS Countries – A Comparative Assessment”

Session 4.3 **SUSTAINABLE DEVELOPMENT** (QEH, Meeting Room A)

Chair: Michael H. Best
(University of Massachusetts Lowell)

11:00-11:30 **Yang Chen** (University of Bristol)
“The transferability of the best practices of sustainability to China”

11:30-12:00 **Rainer Walz** (Fraunhofer Institut, Karlsruhe)
“Technological competences in sustainability technologies in the BRICS countries”

12:00-12:30 **David Reece** (Devon Development Education, The Global Centre, Exeter)
“Research policy and innovation systems: the case of rice in Central China”

12:30-13:00 **Matthew A. Cole, Robert J.R. Elliott and Jing Zhang** (University of Birmingham)
“Growth, Foreign Direct Investment and the Environment: Evidence from Chinese Cities”

Session 4.4	<u>SMEs AND INNOVATION</u>	(Old Dining Room, Harris Manchester College)
	Chair: Mark Rogers (University of Oxford)	
11:00-11:30	A.L. Pathre and Vinita N Gaikwad (Mumbai University) “SMEs and innovation in India – Industry - Institutions Linkages and Policy initiatives: Empirical study about challenges and prospects faced by Innovative SME Entrepreneurs	
11:30-12:00	Ana Arroio (Federation of Industries of Rio de Janeiro) “Development, Innovation and Public Policy: The Brazilian Experience in Support of Micro and Small Enterprise”	
12:00-12:30	Wang Jinmin (Zhejiang University), Richard Sanders (University of Southampton), Xuan Li (South Center) The Innovation of SMEs and the Upgrading of Industrial Clusters in China - The Case of Zhejiang Province	
12:30-13:00	Piriya Pholphirul (National Institute of Development Administration) and Veera Bhatiasevi (Mahidol University International College) “Why Thai SMEs do not register for IPRs?: A Cost-Benefit Comparison and Public Policies”	
13:00-14:00	Lunch break	(QEH Hall, 3 Mansfield Road)
14:00 – 15:30	Plenary Session III: BRICS and the world economy	(Mansfield College Chapel, Mansfield Road)
	Chair: Adrian Wood (University of Oxford)	
14:00-14:30	Deepak Nayyar , (Jawaharlal Nehru University) “BRICS in the World Economy: Economic Growth and Technological Capabilities”	
14:30-15:00	Yoshiaki Tojo (OECD) TBC	
15:00-15:30	Torbjorn Fredriksson (UNCTAD) “Third World multinationals and South-South FDI”	
15:30 – 16:00	Coffee break	(Mansfield College Chapel)
16:00 – 17:30	Closing Plenary: Future research in this field	(Mansfield College Chapel)
	Chair: Ludovico Alcorta (UNIDO)	
16:00-16:30	Luc Soete (UNU-MERIT) “Science, Technology and Development: Emerging concepts and visions”	
16:30-17:20	Panel discussion: Martin Bell (SPRU, University of Sussex) Anupam Khanna (World Bank) Susan Morrel (EPSRC) Esther Wilkinson (ESRC)	
17:20-17:30	Xiaolan Fu (Director of SLPTMD, University of Oxford) Closing remarks	
18:30-19:30	Garden party hosted by Rani Lall	(9 Rawlinson Road)