

**UNU-MERIT, Maastricht,
Centre for Development Studies, Trivandrum
and
National Institute of Science, Technology and Development Studies
(NISTADS, CSIR)**

are jointly offering a one week intensive course

DESIGN AND EVALUATION OF INNOVATION POLICY IN DEVELOPING COUNTRIES

New Delhi, 2-7 February 2009

Course co-ordinators: Sunil Mani and Adam Szirmai

Speakers (to be confirmed):

- PARTHASARATHI BANERJEE
- RAKESH BASANT
- MICHELINE GOEDHUYS
- SUNIL MANI
- PIERRE MOHNEN
- CLAIRE NAUWELAERS
- RAJESWARI RAINA
- ADAM SZIRMAI
- PADMASHREE GEHL SAMPATH

DESIGN AND EVALUATION OF INNOVATION POLICY IN DEVELOPING COUNTRIES		
Speaker	Monday	2 February
	08.30-09.00	Registration
	09.00-9.15	Opening: aims of DEIP programme
1. PROF. DR. ADAM SZIRMAI Professorial Fellow, <i>UNU-MERIT</i>	09.15	TAPPING INTO GLOBAL TECHNOLOGY <ol style="list-style-type: none"> 1. Szirmai, Adam, 2008, Explaining success and Failure in Development, UNU-MERIT Working Paper 2008-013 2. J. Fagerberg and M.M. Godinho, Innovation and Catching Up, Chapter 19, in J. Fagerberg (ed), Oxford Handbook of Innovation, 2004 3. M. Abramovitz, Thinking About Growth, in M. Abramovitz, Thinking about Growth and Other Essays on Economic Growth and Welfare, Cambridge University Press, 1989, p. 3-79.
	11.00	COFFEE BREAK
2. CLAIRE NAUWELAERS Senior Researcher, <i>UNU-MERIT</i>	11.15	INNOVATION PROCESSES AND INNOVATION SYSTEMS: GENERAL PERSPECTIVES ON INNOVATION POLICY <ol style="list-style-type: none"> 1. OECD (2007) Innovation and Growth: rationale for an innovation strategy http://www.oecd.org/dataoecd/2/31/39374789.pdf 2. Kuhlmann, S. and P. Shapira (2006), How is innovation influenced by Science and Technology Policy Governance ? Transatlantic Comparisons, in Hage, J. and M. Meeus (2006), Innovation, Science and Institutional Change: a Research Handbook, Oxford University Press, New York, p. 221-255. 3. Soete, L. (2006), A knowledge economy paradigm and its consequences, UNU-MERIT Research Memorandum 1. 4. Borrás, S. and B.A Lundvall, Science, Technology and Innovation Policy, chapter 22 in Fagerberg, J., Mowery. D. and R.R. Nelson (eds), <i>The</i> <?xml:namespace prefix = st1 ns = "urn:schemas-microsoft-com:office:smarts" /><i>Oxford Handbook of Innovation, Oxford University Press, 2004.</i>
	13.00	LUNCH

<p>3. PROF. DR. SUNIL MANI Professor of Development Economics, <i>Centre for Development Studies</i></p>	<p>14.00</p>	<p>GLOBALISATION AND INNOVATION POLICIES: RATIONALE FOR INNOVATION POLICIES IN A BORDERLESS ECONOMY IN THE DEVELOPING WORLD</p> <ul style="list-style-type: none"> • Why do governments have innovation policies-the theoretical arguments • Empirical evidence on globalisation of technology • Growing imperfections in the market for especially disembodied technologies • Components of an innovation policy <p>Reading: Mani, Sunil (2002), <i>Government, Innovation and Technology Policy, An International Comparative Analysis</i>, Cheltenham, UK and Northampton, MA.USA: Edward Elgar, pp. 1-47.</p>
	<p>15.45</p>	<p>COFFEE BREAK</p>
<p>4. DR. RAJESWARI RAINA Senior Fellow, , Centre for Policy Research</p>	<p>16.00</p>	<p>INNOVATION IN INDIAN AGRICULTURAL AND RURAL SECTORS</p> <ol style="list-style-type: none"> 1. Biggs, S., (2007) Building on the positive: an actor innovation systems approach to finding and promoting pro-poor natural resources institutional and technical innovations, <i>International Journal of Agricultural Resources, Governance and Ecology</i>, Vol. 6 (2), 2007, pp. 144-164. 2. Clark, N., Hall A., Sulaiman, R., Naik, G. (2003) Research as Capacity Building: The Case of an NGO Facilitated Post-Harvest Innovation System for the Himalayan Hills <i>World Development</i>, Vol. 31 (11): 1845-63.

Speaker	Tuesday	3 February
5. CLAIRE NAUWELAERS Senior Researcher, <i>UNU-MERIT</i>	11.15	CHALLENGES FOR THE DESIGN AND INNOVATION POLICIES IN DEVELOPING COUNTRIES: LESSONS FROM THE EUROPEAN EXPERIENCE <ol style="list-style-type: none"> 1. Nauwelaers, C. and R. Wintjes (2003), 'Towards a new paradigm for innovation policies?', in B. Asheim, Isaksen, A., Nauwelaers, C. and F. Töttdling (2003), <i>Regional innovation policy for small-medium enterprises</i>, Cheltenham, UK and Lyme, US : Edward Elgar. 2. OECD (2005) <i>Governance of Innovation Systems Volume 1: Synthesis Report</i>, Paris. ISBN: 9789264011021 3. Jakob Edler, Stefan Kuhlmann, Ruud Smits (2003), <i>New Governance for Innovation: The Need for Horizontal and Systemic Policy Co-ordination</i>, Discussions Papers "Innovation System and Policy Analysis" No 2/2003, Karlsruhe. http://www.isi.fraunhofer.de/p/Discussion_Papers.htm 4. EU (2008), <i>Lisbon Strategy: Between Revolution and Illusion</i>, the governance challenge for knowledge policies, Brussels, http://ec.europa.eu/invest-in-research/pdf/download_en/kina23469enc.pdf
	11.00	COFFEE BREAK
6. PROF. DR. SUNIL MANI Professor of Development Economics, <i>Centre for Development Studies</i>	11.15	FINANCIAL INSTRUMENTS TO PROMOTE INNOVATION: THE CASE OF RESEARCH GRANTS <ol style="list-style-type: none"> 1. Merton, Robert K (1968), 'The Matthew Effect in Science', <i>Science</i>, 159 (3810), pp.56-63- Soft copy is attached 2. Viner , Neil , Philip Powell and Rod Green (2004), 'Institutionalized biases in the award of research grants: a preliminary analysis revisiting the principle of accumulative advantage', <i>Research Policy</i>, 33, pp. 433-454
	13.00	LUNCH
8. PROF. DR. ADAM SZIRMAI Director <i>UNU-MERIT</i>	14.00	DESIGNING EDUCATION POLICIES FOR INNOVATION: THE SUPPLY OF SCIENTISTS AND ENGINEERS <ol style="list-style-type: none"> 1. World Bank (2002), 'Constructing Knowledge Societies – New Challenges for tertiary Education', World Bank, Washington DC 2. Szirmai, A. (2005) "Education and Development" in Szirmai, A. <i>The Dynamica of Socio-Economic Development</i>, Cambridge University Press, pp. 213-254. 3. Marginson, S. and Van der Wende, M (2007) <i>Globalisation and Higher Education</i>, OECD Working Paper
	15.45	COFFEE BREAK

<p>9. CLAIRE NAUWELAERS Senior Researcher <i>UNU-MERIT</i></p>	<p>16.00</p>	<p>CLUSTERS, NETWORK AND REGIONAL INNOVATION SYSTEMS</p> <ol style="list-style-type: none"> 1. Nauwelaers, C. and R. Wintjes, (forthcoming 2008), Innovation policy, innovation in policy: Policy learning within and across systems and clusters, in Nauwelaers, C. and R. Wintjes (ed.) (forthcoming 2007), <i>Innovation Policy in Europe</i>, Edward Elgar, Cheltenham. 2. Mariussen, Å. (ed.) (2001), Cluster Policies - Cluster Development? <i>A contribution to the analysis of the new learning economy</i>, Nordregio Report 2001:2, ISBN 91-89332-14-8. http://www.nordregio.se/r0102.htm
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Speaker	Wednesday	4 February
10. PROF. RAKESH BASANT Professor of Economics, <i>Indian Institute of Management</i>	9.00	CHANGES IN THE INDIAN IPR REGIME AND ITS POTENTIAL AND ACTUAL EFFECTS ON INNOVATIVE ACTIVITY IN INDIAN INDUSTRIES Basant Rakesh (2006), “Intellectual Property Rights regime and Creation of Innovation Based Enterprises in India”, Indian Institute of Management, Ahmedabad.
	11.00	COFFEE BREAK
11. DR. RAJESWARI RAINA Senior Fellow, <i>Centre for Policy Research</i>	11.15	SUPPORTING AND ENABLING RURAL INNOVATION IN INDIA <ol style="list-style-type: none"> 1. Three RIPWiG Policy Briefs will be distributed 2. Raina, R.S. (2009 forthcoming) Innovation for eco-friendly development – towards institutional reform in scientific research and policy-making, Guimaraes- Perreira, A. and Funtowicz, S. (Eds.) <i>Science for Policy</i>, Oxford University Press: New Delhi, London.
	13.00	LUNCH
12. PROF. RAKESH BASANT Professor of Economics, <i>Indian Institute of Management, Ahmedabad</i>	14.00	PROMOTING INNOVATION IN SMALL AND MEDIUM SIZED ENTERPRISES IN INDIA Morris, S. and Basant, R. (2007), “Small and medium Enterprise in India Today – Overcoming Policy Constraints to Achieving Rapid Growth in a Globalising Economy”, Indian Institute of Management, Achmedabad, WP. NO. 2007-08-03, July.
	15.45	

<p>13. DR. PARTHASARATHI BANERJEE Acting Director, <i>National Institute of Science Technology and development Studies</i></p>	<p>16.00</p>	<p>INFRASTRUCTURE FOR INNOVATION (INCUBATORS, GOVERNMENT RESEARCH INSTITUTES, STANDARDS)</p> <ol style="list-style-type: none"> 1. Vercoulen F., and van Wegberg, M. (1998), “Standard Modes in Dybamic, Complex industries: Creting Hybrids between Market Selection and Negotiated Selection of Standards”, NIBOR, Netherlands Institute of Business Organization and Strategy Research 2. Funk, J.L. and Methe, D.T. (2000), “Market- and committee-based mechanisms in the creation and diffusion of global industry standards: the case of mobile communication”, Research Policy, Vol. 30, pp. 589-610 3. Richard N. Langlois, (1994), "Capabilities and Vertical Disintegration in Process Technology: The Case of Semiconductor Fabrication Equipment," Industrial Organization 9406004, EconWPA
	<p>19.00</p>	<p>CONFERENCE DINNER</p>

Speaker	THURSDAY	5 February
14. DR. PADMASHREE GEHL SAMPATH Lecturer <i>The Open University</i>	09.00	INTELLECTUAL PROPERTY RIGHTS AND DEVELOPMENT: OPPORTUNITIES AND THREATS; PATENTS AS AN INNOVATION TOOL <ol style="list-style-type: none"> 1. Gehl Sampath, Padmashree, India's Pharmaceutical Sector in 2008, Emerging Strategies and Global and Local Implications for Access to Medicines", DFID report, 2008. 2. Gehl Sampath, Padmashree, "Intellectual Property and Innovation in Least Developed Countries: Pharmaceuticals, Agro=Processing and Textiles and RMG in Bangladesh". A study for UNCTAD-ALDC Division, 2007. 3. Gehl Sampath, Padmashree, "Breaking the Fence: Patent Rights and Biomedical Innovation in "Technology Followers", UNU-MERIT Working paper, 2006-008, Maastricht.
	11.00	COFFEE BREAK
15. PROF. DR. PIERRE MOHNEN Professorial Fellow, <i>UNU-MERIT</i>	11.15	THE ROLE OF R&D IN ECONOMIC GROWTH <ol style="list-style-type: none"> 1. Pierre Mohnen, The Importance of R&D: Is the Barcelona 3% a reasonable target? Inaugural speech, University of Maastricht, 13 May 2005. 2. Jacques Mairesse and Pierre Mohnen, "The Importance of R&D for Innovation: A Reassessment Using French Survey Data", <i>Journal of Technology Transfer</i>, Vol. 30, No. ½, p. 183-197, 2005. 3. Jacques Mairesse and Pierre Mohnen, "Accounting for Innovation and Measuring Innovativeness: an Illustrative Framework and an Application", <i>The American Economic Review</i>, Vol. 92, No. 2, Papers and Proceedings of the One Hundred Fourteenth Annual Meeting of the American Economic Association. (May, 2002), pp. 226-230.
	13.00	LUNCH-

<p>16. DR. PADMASHREE GEHL SAMPATH Lecturer <i>The Open University</i></p>	<p>14.00</p>	<p>TRENDS IN BIOTECHNOLOGY AND BIOTECHNOLOGY RESEARCH AND THEIR IMPLICATIONS FOR DEVELOPING COUNTRIES</p> <ol style="list-style-type: none"> 1. Gehl Sampath, Padmashree and Oyeyinka, Banji, “Rough Road to Market: Constrained Biotechnology Innovation and Entrepreneurship in Nigeria and Ghana”, <i>Journal of International Development</i>, forthcoming 2. Chataway, Joanne, Tait, Joyce and Wield, Davod, “The Governance of Agro- and Pharmaceutical Biotechnology Innovation: Public Policy and Industrial Strategy”, <i>Technology Analysis and Strategic Management</i>, Vol. 18 (2), pp. 169-185, May 2006.
	<p>16.00</p>	
<p>17. SUNIL MANI, PARTHASARATHI BANERJEE, ADAM SZIRMAI, PADMASHREE GEHL SAMPATH, MICHELINE GOEDHUYS, PIERRE MOHNEN</p>	<p>16.15</p>	<p>Group Discussion on Sectoral Innovation Policy (Biotechnology, or ICT)</p>

Speaker	Friday	6 February
18. PROF. DR. SUNIL MANI Professor of Development Economics, <i>Centre For Development Studies</i>	9.00	ISSUES RELATED TO INTERNATIONAL TECHNOLOGY TRANSFER AND ITS MANAGEMENT <ul style="list-style-type: none"> • Multinational enterprises and international linkages • Case studies of Brazil, India and Korea Reading: 1. Hoekman, Bernard and Beata Smarzynska Javorcik (2006), 'Lessons from empirical research on international technology diffusion through trade and FDI', in Hoekman, Bernard and Beata Smarzynska Javorcik (eds.), <i>Global Integration and Technology Transfer</i> , Washington, D.C: The World Bank, pp. 1-26.
	11.00	COFFEE BREAK
19. DR. MICHELINE GOEDHUYS Researcher, <i>UNU-MERIT</i>	11.15	USING NON-CONVENTIONAL INDICATORS: INNOVATION SURVEYS, SURVEY DESIGN, SURVEY IMPLEMENTATION AND ANALYSIS Some critical issues in the context of innovation surveys. <ol style="list-style-type: none"> 1. Crespi, Gustavo and Fernando Peirano, 2007, 'Measuring Innovation in Latin America : What we did, were we are and what we want to do', paper prepared for the Conference on Micro Evidence on Innovation in Developing Countries, May. 2. Chapter Two: Creating a Policy-Relevant Innovation Survey for Africa” and “Appendix 1 Innovation Questionnaire for NEPAD” in: UNU-INTECH, <i>Designing A Policy-Relevant Innovation Survey for NEPAD</i>” 24 August 2004. 3. UNU-INTECH, 2005, 'Measuring Innovation: Making Innovation Surveys work for Developing Countries', UNU-INTECH, <i>Technology Policy Brief</i>, volume 4, issue 4.
	13.00	LUNCH
20. PROF. DR. SUNIL MANI Professor of Development Economics, <i>Centre for Development Studies</i>	14.15	USING CONVENTIONAL INDICATORS OF POLICY OUTCOMES <ul style="list-style-type: none"> • R&D statistics • Patent statistics • Technology content of exports <ol style="list-style-type: none"> 1. Smith, Keith (2004), 'Measuring Innovation" in Jan Fagerberg, David C. Mowery , Richard R. Nelson (Eds.), <i>The Oxford Handbook of Innovation</i> (Oxford Handbooks in Business and Management)Oxford: Oxford University Press. 2. Mani, Sunil (2007), 'Innovation surveys in developing countries: what can we learn from it for public innovation policies?', Paper presented at the conference on Micro evidence on innovation in developing countries, May 31- June 1, UNU-MERIT, Maastricht, The Netherlands.
	16.00	BREAK

<p>21. DR. MICHELINE GOEDHUYS Researcher, <i>UNU-MERIT</i></p>	<p>16.15</p>	<p>EVALUATION METHODS AND MONITORING</p> <ol style="list-style-type: none"> 1. Chudnovsky, Daniel, Andres Lopez, Martin Rossi and Diego Ubfal, 2006, ‘Evaluating a Program of Public Funding of Private Innovation Activities. An Econometric Study of Fonatar in Argentina’, Office of Evaluation and Oversight, Working Paper OVE/WP-16/06, November. 2. Benavente, Jose Benavente, Gustavo Crespi and Alessandro Maffioli, 2007, ‘Public Support to Firm-level Innovation : an Evaluation of the Fontec Program’, Office of Evaluation and Oversight, Working Paper OVE/WP-05/07, December. 3. Hall, Bronwyn H. and Alessandro Maffioli, 2008, ‘Evaluating the Impact of Technology Development Funds in Emergining Economies : Evidence from Latin-America’, EJDR, February.
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Speaker	Saturday	7 February
22. PROF. DR. PIERRE MOHNEN Professorial Fellow, <i>UNU-MERIT</i>	09.00	FINANCIAL INSTRUMENTS TO PROMOTE INNOVATION AND R&D: THE CASE OF R&D TAX INCENTIVES <ol style="list-style-type: none"> 1. Hall, B. and J. van Reenen (2000), “How effective are fiscal incentives for R&D? A review of the evidence”, <i>Research Policy</i>, 29, 449-469. 2. European Commission (2003), EU 20714 - Raising EU R&D Intensity - Improving the effectiveness of public support mechanisms for private sector research and development: Fiscal measures. Report to the European Commission by an Independent Expert Group. Luxembourg: Office for Official Publications of the European Communities. 3. Lokshin, Boris and Pierre Mohnen, “Measuring the effectiveness of R&D tax credits in the Netherlands”, mimeo, 2007.
	11.00	COFFEE BREAK
23. SUNIL MANI, PARTHASARATHI BANERJEE, ADAM SZIRMAI, MICHELINE GOEDHUYS, PIERRE MOHNEN	11.15	GROUP DISCUSSION: “ON THE DESIGN AND IMPLEMENTATION OF INDIA’S SCIENCE AND TECHNOLOGY POLICY OF 2003”
SUNIL MANI PARTHASARATHI BANERJEE ADAM SZIRMAI	13.15	CLOSING SESSION
	13.40	END