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UNIVERSITY

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**UNU-MERIT Maastricht is offering a
one week intensive course on**

**THE DESIGN AND EVALUATION
OF INNOVATION POLICY
IN DEVELOPING COUNTRIES
(DEIP)**

**San Salvador, El Salvador
26 – 30 October 2009**

Draft Programme

Course Coordinators:

**Dr. Michiko Iizuka, Ezequiel Tacsir and
Prof. Dr. Eddy Szirmai,**

Course Faculty:

See Annex I for provisional list of speakers

DESIGN AND EVALUATION OF INNOVATION POLICY IN DEVELOPING COUNTRIES

Speaker		DAY 1
	08.30	REGISTRATION
EDDY SZIRMAI DEIP COORDINATOR	09.00	Opening Aims and objectives of DEIP
(1) Eddy Szirmai	09.20	TAPPING INTO GLOBAL KNOWLEDGE FLOWS. RATIONALE FOR INNOVATION POLICIES IN DEVELOPING COUNTRIES IN A GLOBALISED WORLD ECONOMY Readings: <ol style="list-style-type: none">1. Szirmai, Adam, 2008, Explaining success and Failure in Development, UNU-MERIT Working Paper 2008-0132. J. Fagerberg and M.M. Godinho, Innovation and Catching Up, Chapter 19, in J. Fagerberg (ed), Oxford Handbook of Innovation, 20043. 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) Ezequiel Tacsir	11.15	THE ROLE OF R&D IN ECONOMIC GROWTH: FINANCING OF R&D, CAPITAL MARKETS, VENTURE CAPITAL AND INNOVATION Readings: <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

(3) Michiko Iizuka **14.15**

PRO-POOR INNOVATION

Readings:

1. London, Ted (2007) A Base-of-the-Pyramid Perspective on Poverty Alleviation, working paper The William Davidson Institute, at the University of Michigan, July.
2. Mendonza, Ronald U. and Thelen, Nina (2008) Innovation to Make Markets More Inclusive for the Poor, Development Policy Review, Vol. 26, no. 4, pp. 427-458.
3. UNDP (2008), Creating Value for all: Strategies for doing business with the poor, UNDP, July.
4. UNDO (2008) Las Empresas Frente al Desafio de la Proeza: Estrategias Exitosas, UNDP, Julio.
5. World Resources Institute for Inter-American Development Bank (2006) The Market of the Majority: The BOP Opportunity Map of Latin America and the Caribbean”, prepared by Development through Enterprise Project, June. (English and Spanish version)

16.00

COFFEE BREAK

(4) Eddy Szirmai,
Michiko Iizuka,
Claire Nauwelaers,
Ezequiel Tacsir,
Ramon Padilla

16.15

**EXPERIENCES WITH DESIGN, IMPLEMENTATION
AND EVALUATION OF INNOVATION POLICIES: CASE
STUDY PRESENTATIONS BY PARTICIPANTS SESSION
I**

18.00

DRINKS

Speaker

DAY 2

(5) Eddy Szirmai, Bart Verspagen, Michiko Iizuka, Claire Nauwelaers, Ramon Padilla, Ezequiel Tacsir **09.00** **EXPERIENCES WITH DESIGN, IMPLEMENTATION AND EVALUATION OF INNOVATION POLICIES: CASE STUDY PRESENTATIONS BY PARTICIPANTS SESSION II**

11.00 COFFEE BREAK

(6) Bart Verspagen **11.15** **DESIGN AND EVALUATION OF INNOVATION POLICY: A CONCEPTUAL AND THEORETICAL FRAMEWORK**

Readings:

1. P. Llerena & M. Matt, Introduction, in Llerena, P & M. Matt (eds.) *Innovation Policy in a Knowledge-Based Economy*, Springer, 2005.
2. Lundvall, B.-A. & S. Borrás, Science, Technology and Innovation Policy, chapter 22 in Fagerberg, J., Mowery, D.C. & R.R. Nelson, *Oxford Handbook of Innovation*, Oxford University Press, 2005.

13.00 LUNCH

(7) Claire Nauwelaers **14.00** **CHALLENGES FOR THE DESIGN OF INNOVATION POLICES: LESSONS FROM EUROPE**

Readings:

1. Borrás, S. and B.-A Lundvall (2004), Science, Technology and Innovation Policy, in Fagerberg, J., Mowery, D. and R.R. Nelson (eds), *The Oxford Handbook of Innovation*, Oxford University Press, Oxford.
2. Nauwelaers, C. and R. Wintjes, (2008), Innovation policy, innovation in policy: Policy learning within and across systems and clusters, in Nauwelaers, C. and R. Wintjes (ed.), *Innovation Policy in Europe*, Edward Elgar, Cheltenham.
3. OECD (2005) *Governance of Innovation Systems Volume 1: Synthesis Report*, Paris. ISBN: 9789264011021
4. Edler, J. Kuhlmann, S. and R. Smits (2003), *New Governance for Innovation: The Need for Horizontal and Systemic Policy Co-ordination*, ISI-Fraunhofer *Discussion Papers "Innovation System and Policy Analysis"* No 2/2003, Karlsruhe.

15.45 COFFEE BREAK

(8) Ramon Padilla **16.00** **MULTINATIONAL ENTERPRISES, FOREIGN DIRECT INVESTMENT, EXPORT OPPORTUNITIES: INTERNATIONAL LINKAGES AND THE DIFFUSION OF TECHNOLOGY TO DEVELOPING COUNTRIES WITH SPECIAL FOCUS ON LATIN AMERICA**

Readings:

1. Padilla-Pérez, Ramon and Jorge Mario Martínez-Piva (2009), "Export growth, foreign direct investment and technological capability building under the maquila model: winding roads, few intersections", *Science and Public Policy*, vol. 36, no. 4
2. Padilla-Pérez, Ramon (2008), "A regional approach to study technology transfer through foreign direct investment: The electronic industry in two Mexican regions", *Research Policy*, vol. 37, no. 5.
3. Carrillo, J., M. Mortimore and J. Alonso (1998), "El impacto de las empresas transnacionales en la reestructuración industrial de México", *Productive Development Series*, no. 50, ECLAC, United Nations, Santiago de Chile.

18.00 END OF DAY

Speaker

(9) Eddy Szirmai, **09.00**
Bart Verspagen,
Michiko Iizuka,
Claire
Nauwelaers, Rene
Hernandez,
Ezequiel Tacsir

DAY 3

**EXPERIENCES WITH DESIGN, IMPLEMENTATION AND
EVALUATION OF INNOVATION POLICIES: CASE STUDY
PRESENTATIONS BY PARTICIPANTS SESSION III**

11.00 COFFEE BREAK

(10) Eddy Szirmai, **11.15**
Bart Verspagen,
Michiko Iizuka,
Claire
Nauwelaers, Rene
Hernandez
Ezequiel Tacsir

**EXPERIENCES WITH DESIGN, IMPLEMENTATION AND
EVALUATION OF INNOVATION POLICIES: CASE STUDY
PRESENTATIONS BY PARTICIPANTS SESSION IV**

13.00 LUNCH

(11) Claire **14.15**
Nauwelaers

**POLICY MIX TO PROMOTE INNOVATION (TAX
INCENTIVES, SUBSIDIES, RESEARCH GRANTS)**

Reading:

Nauwelaers, Claire, (2009), "Policy Mixes for R&D in Europe", a study commissioned by the European Commission, Directorate General for Research. <http://www.policymix.eu/policymixtool/userfiles/file/uploadeddocs/80044-unu-brochure-full-final1.pdf>

16.00 COFFEE BREAK

(12) Bart **16.15**
Verspagen

**INTELLECTUAL PROPERTY RIGHTS AND
DEVELOPMENT: OPPORTUNITIES AND THREATS;
PATENTS AS AN INNOVATION TOOL**

Readings:

1. David, Paul A., 1993, Intellectual property institutions and the panda's thumb: patents, copyrights, and trade secrets in economic theory and history, in: M. Wallerstein, M. Moguee and R. Schoen (eds.), Global Dimensions of Intellectual Property Protection in Science and Technology, National Academy Press, Washington, D.C
2. Verspagen, B., 2003, 'Intellectual Property Rights in the World Economy', in: O. Granstrand (ed.), Economics, Law and Intellectual Property. Seeking Strategies for Research and Teaching in a Developing Field, Boston etc.: Kluwer Academic Publishers, pp. 489-518

19.00 DINNER

Speaker

DAY 4

(13) Rene
Hernandez

9.00

INNOVATION SYSTEM BUILDING AND INDUSTRIAL DEVELOPMENT IN LATIN AMERICA

Readings:

1. ECLAC, 2008, "Innovation and Economic development" in ECLAC, "Structural Change and Productivity Growth – 20 years later old problems, new opportunities" Chapter 3, page 107-140.
2. ECLAC, 2008, "Techno-Economic Paradigms: ICTs and Biotechnology" in ECLAC, "Structural Change and Productivity Growth – 20 years later old problems, new opportunities" Chapter 4., page 141-160.
3. ECLAC, 2008, "Opportunities associated with the restructuring of production sectors" in ECLAC, "Structural Change and Productivity Growth – 20 years later old problems, new opportunities" Chapter 5., page 161-229.

11.00

COFFEE BREAK

(14) Gabriela
Dutrenit

11:15

CHALLENGES FOR THE DESIGN OF INNOVATION POLICIES: LESSONS FROM LATIN AMERICA

Reading:

1. Dutrenit, G and Vera-Cruz, A.O. (2009) "Innovation Policy and Incentives Structure: Learning from the Mexican Case" in Drechsler, W., Kattel and R. and Reinert, E., Techno-Economic Paradigms: Essays in Honour of Carlota Perez, chapter 7, pages 104-124.

13.00

LUNCH

(15) Claire
Nauwelaers

14.15

PROMOTING INNOVATION: INCUBATORS, SCIENCE PARKS, SPINN-OFFS, BUSINESS SUPPORT AND CLUSTER POLICIES

Readings:

1. Nauwelaers, C. (2009), Intermediaries in regional innovation systems: role and challenges for policy, in, Cooke, P. (ed.) (2009), *The Handbook of Regional Innovation and Growth*, Edward Elgar, Cheltenham, forthcoming.
2. OECD (2007), *Competitive Regional Clusters: National Policy Approaches*, Paris.
3. Rigby, J., Bleda, M., Morrison, K. and Kim, J. (2007), Are Gazelles leaping ahead? Innovation and rapidly-growing firms, the GRIPS Mini-Study, Pro-INNO Europe, Brussels. <http://grips.proinno-europe.eu/ministudies/view/1/the-gazelle-mini-study>
4. UNECE (2007), *Creating a conducive environment for higher competitiveness and effective national innovation systems: Lessons learned from the experiences of UNECE countries*, New York and Geneva. <http://www.unece.org/ceci/publications/icp.pdf>.

16.00

COFFEE BREAK

(16) Eddy Szirmai and Ezequiel Tacsir **16.15**

THE SUPPLY OF ENGINEERS AND TECHNICALLY SKILLED WORKERS: EDUCATION POLICY AND ROLE OF DIASPORAS IN LEVERAGING INNOVATION, ENTREPRENEURSHIP AND FINANCING FOR INNOVATION

General Readings:

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. *The Dynamica of Socio-EconomicDevelopment*, Cambridge University Press, pp. 213-254.
3. Marginson, S. and Van der Wende, M (2007) Globalisation and Higher Education, OECD Working Paper.

Readings Diaspora:

1. Kuznetsov, Y. (2008), "Why is Diaspora Potential so Elusive? Towards a New Generation of Initiatives to Leverage Countries' Talent Abroad", WBI Working Paper
2. Paglayan, A.S. and Lafuente, M. (2009), "Reversing the Brain Drain: The Role of the Diaspora in Building the Entrepreneurial Skills of Argentine Youth", World Bank Working Paper
3. Saxenian, A.L. (2008), "The International Mobility of Entrepreneurs and Regional Upgrading in India and China" in Solimano, A., ed. 2008. *The international mobility of talent: Types, causes, and development impact*. Oxford, U.K.: Oxford University Press.

18.00

END OF DAY

Speaker

Day 5

(17) Norbert Janz **09.00**

USING CONVENTIONAL INDICATORS OF POLICY OUTCOMES

Private and Public R&D statistics
Patent statistics
Scientific Publications, citations
Scientists, engineers, technical human resources
Technology content of exports etc
Readings to be announced

(18) Gabriela 11.00
Dutrenit **11.15**

COFFEE BREAK

USING NON-CONVENTIONAL INDICATORS: INNOVATION SURVEYS, SURVEY DESIGN, SURVEY IMPLEMENTATION AND ANALYSIS

- How to design innovation surveys-the experience from European Community Innovation Surveys (CIS)
- How to design innovation surveys-the experience from Latin American Innovation Surveys (CIS)

Some critical issues in the context of innovation surveys.

If it is possible, Latin American Innovation Survey with Bogota Manual

Readings:

1. Agencia Nacional de Investigacion e Innovacion, "III Encuesta de Actividades de Innovation en la Industria Uruguaya (2004-2006), Coleccion Indicadores y Estudios Nr. 1.
2. Instituto Nacional de Estadistica Y Censos, 2008, Encuesta Nacional sobre Innovation y Conducta Tecnologia ENIT 2005.
3. Instituto Nacional de Estadistica, Encuesta sobre Innovacion Tecnologia en las Empresas 2006.
4. Manual de Santiago, 2007, Manual de Indicadores de Internacionalizacion de la Ciencia y la Tecnologia.
5. Ricyt/OEA/CYTED, 2001, Normalizacion de Indicadores de Innovation Tecnologia en America Latina y el Caribe, Manual de Bogota
6. OECD, EU, 2005, Manual de Oslo, Guia Para la Recogida E Interpretacion de Datos Sobre Innovation, Tercera edicion.

13.00

LUNCH

(19) Norbert Janz **14.15**

EVALUATION METHODS AND MONITORING

Readings to be announced

16.00

COFFEE BREAK

(20) UNU-MERIT **16.15**
lecturers

PANEL DISCUSSION: REFLECTIONS ON INNOVATION POLICIES IN LATIN AMERICA

18.00

END OF DAY

Annex 1

List of Speakers

- (1) Prof. Dr. Eddy Szirmai (UNU-MERIT)**
- (2) Dr. Michiko Iizuka (UNU-MERIT)**
- (3) Prof. Dr. Bart Verspagen (UNU-MERIT)**
- (4) Claire Nauwelaers, MA (UNU-MERIT)**
- (5) Ezequiel Tacsir, MA (UNU-MERIT)**
- (6) Dr. Ramon Padilla (UNECLAC, MEXICO)**
- (7) Dr. Rene Hernandez (UNECLAC, MEXICO)**
- (8) Dr. Gabriela Dutrenit (UNU-MERIT and Metropolitan Autonomous University in Mexico)**
- (9) Prof. Dr. Nobert Janz (UNU-MERIT)**