

CARLETON UNIVERSITY

Institute of Political Economy & School of Public Policy and Public Administration

POLICY SEMINAR: POLITICAL ECONOMY OF URBAN INNOVATION

PSCI 5502W

SYLLABUS

WINTER TERM 2008

Instructor:	Tijs Creutzberg	Email:	Tijs_Creutzberg @carleton.ca; tcreutzberg@hal.ca
Office:	A816 Loeb	Office Hours:	After class, or by appointment
Class Location:	1110 Dunton Tower	Class time:	Monday, 2:30-5:30pm

Course description

Urban centres are increasingly an important focal point for industrial innovation and development in advanced economies, having become implicated in a convergence of political and economic trends over the past few decades. Globalization, a recognition of the importance of innovation to economic prosperity, the interdependence between knowledge generation, learning, and proximity, and not least, the fragmentation of the innovation process itself, have all helped give rise to new understandings of how urban regions interact with, and support, knowledge-intensive economies. The purpose of this course is to survey the literature on these issues and explore their implications for: economic development; the economic governance of city-regions; and, the relationships that urban centres have with upper-levels of government. In doing so, this course offers answers to three broad questions:

- What is the significance of the local / urban scale to a country's advanced economy in an era of globalization?
- In what ways has innovation influenced economic development policy and the economic role of the state?
- What implications does innovation have for the governance of urban regions?

Required readings

There is no single book which provides comprehensive treatment of the material in this course. In place of a book, an electronic course pack has been prepared and made available on WebCT. Three or four readings have been assigned each week (marked by †) with additional readings made available on WebCT for those who wish to follow up on a topic in greater depth.

For students seeking to purchase a reference book that deals with several of the topics in this course, I recommend: J. Fagerberg, D. Mowery and R. Nelson (eds.) *The Oxford Handbook of Innovation* New York: Oxford University Press.

Course format

This course will be taught in the form of a structured, student-led seminar and include a short lecture by the instructor to set the readings and issues into context. Students will be assigned one of the recommended readings for the week on which they will make a presentation to the class. The presentations will summarize the main arguments, key themes and critically assess the reading in the context of the week's topic. Depending on class numbers, each student can expect to make more than one presentation over the length of the course. The readings for which students are responsible will be assigned in the second week of class.

Course evaluation

Evaluation will consist of class participation (20%); a book review (25% - DUE FEBRUARY 18) and a final research paper (55% - DUE MARCH 31).

Participation: Students are expected to do all the readings and come to class prepared so as to be able to engage effectively in discussion. The grade is based on the quality of the contributions, not the quantity.

Book review: Student are to write a book review of no more than five pages in length (double spaced) that identifies the argument, summarizes the evidence and critically situates the argument in the context of the literature covered by the course. Students should email titles of books they plan to review to the instructor for approval.

Research paper: A research paper of 25-30 pages in length is to be submitted end of term which addresses a key research question relevant to any of the course topics or related themes.

NOTE: University Policy on Plagiarism

Plagiarism is an instructional offence that occurs when a student uses or passes off as one's own idea or product work of another person, without giving credit to the source. For more information please consult Carleton's policy on plagiarism.

Week 1 (Jan 7): Introduction: Course Overview & Interpretations of Political Economy

- Gilpin R. 2001. “The Nature of Political Economy”, Chapter 2 in *Global Political Economy* Princeton: Princeton University Press.
- Nelson R. 2003. “On the complexities and limits of market organization” *Journal Review of International Political Economy*, Volume 10, Issue 4 November 2003, pages 697 - 710
- Polanyi K. 1957. ‘The Economy as Instituted Process’, in K. Polanyi, C. Arensberg and H. Pearson (eds.) *Trade and Market in the Early Empires*, Free Press.
- Hodgson G. 2005. “Knowledge at Work: Some Neoliberal Anachronisms” *Review of Social Economy*, Volume 63, Issue 4 December, pages 547 – 565.

Week 2 (Jan 14): Does Innovation Matter?

- †Mowery D. and N. Rosenberg. 1989. Chapter 1 in *Technology and the Pursuit of Economic Growth*. Cambridge University Press.
- †Freeman C. and L. Soete. 1997. Chap. 1 & 3. *The Economics of Industrial Innovation*, 3rd Edition. London: Pinter.
- †Schumpeter, J. *Capitalism, socialism, and democracy*, 3rd ed. New York, Harper & Row, 1962.
- OECD 2001. *Science, Technology and Industry Outlook: Drivers Of Growth: Information Technology, Innovation & Entrepreneurship* in Paris: OECD.
- Freeman, C. 2001. *As Time Goes By: from the Industrial Revolutions to the Information Revolution* New York: Oxford University Press.

Week 3 (Jan 21): Innovation & the Firm – Past & Present

- †Hounshell, D. and J. Kenly Smith *Science and Corporate Strategy: Du Pont R&D, 1902-1980*. Chapter 1.
- †Lazonick W. 2006. “The Innovative Firm”. In Fagerberg J. et al. (eds.) *The Oxford Handbook of Innovation* New York: Oxford University Press.
- †Chesbrough H. and A. Kardon Crowther “Beyond high tech: early adopters of open innovation in other industries” *R&D Management* 36, 3, 2006.
- †Mowery, D., and N. Rosenberg 1989. Chapter 9. “International and domestic collaboration in research and development”, *Technology and the Pursuit of Economic Growth*, Cambridge University Press.
- Chesbrough H. 2003. ‘The era of open innovation’, *MIT Sloan Management Review*, Volume 44 Issue 3 (7).
- The Economist Mar 1st 2007. “The rise and fall of corporate R&D: Out of the dusty labs”

Week 4 (Jan 28): Innovation & Institutions

- †Cooke P. and K. Morgan 1998. Chapter 1. “The Institutions of Innovation”. In *The Associational Economy: Firms, Regions and Innovation*.
- †Lundvall BA and P. Maskell. 2000. ‘Nation States and Economic Development: From National Systems of Production to National Systems of Knowledge Creation and Learning. In Clark, Feldman and Gertler (Eds.) *The Oxford Handbook of Economic Geography*. Oxford University Press, Chap. 18.
- †Powell W. and S. Grodal 2006. “Networks of Innovators”. In Fagerberg J. et al. (eds.) *The Oxford Handbook of Innovation* New York: Oxford University Press.

Week 5 (Feb 4): The Role of Universities

- †Geiger R. 2004. Chapter 1 & 5. *Knowledge and Money: Research Universities and the Paradox of the Marketplace*. Stanford: Stanford University Press.
- †Mowery D. and B. Sampat. “Universities in National Innovation Systems”. In Fagerberg J. et al. (eds.) *The Oxford Handbook of Innovation* New York: Oxford University Press.
- Cohen, W., R. Florida, L. Randazzese, and J. Walsh, 1998, “Industry and the Academy: Uneasy Partners in the Cause of Technological Advance,” in *Challenges to Research Universities*, Ed. Roger G. Noll, 171-199.
- Etzkowitz H. 2003. “Innovation in Innovation: The Triple Helix of University-Industry-Government Relations” *Social Science Information*, 42 /3.

Week 6 (Feb 11): Regional Dimensions of Innovation

- †Cooke P. and K. Morgan 1998. “The Region as a nexus of Learning Processes” pp. 60-82. In *The Associational Economy: Firms, Regions and Innovation*. Oxford University Press.
- †Storper M. 1995. “The Resurgence of Regional Economies, Ten Years Later: The Region as a Nexus of Untraded Interdependencies” *European Urban and Regional Studies* 2(3) 191-221.
- †Lovering J. 1999. ‘Theory Led by Policy: the Inadequacies of the ‘New Regionalism’ (Illustrated in the case of Wales). *International Journal of Urban and Regional Research* June (23) 379-395.
- Florida R. 1995. ‘Toward the Learning Region’, in *Futures*, Vol. 27., No. 5., pp. 527-536.
- Laursen K., F. Masciarelli and A. Prencipe. 2007. “Regions Matter: How Regional Characteristics Affect External Knowledge Acquisition and Innovation” DRUID Working Paper No. 07-20.
- Scott A., M. Storper 2003. “Regions, Globalization, Development”. *Regional Studies*, Vol. 37.6&7, pp. 579–593, August/October.

Week 7 (Feb 18): Reading Week – No Class

Week 8 (Feb 25): Industry Clusters

- †Porter M. 1998. “Clusters and the New Economics of Competition” *Harvard Business Review* November-December, p 77-90.
- †Martin, R; Sunley, P. 2003. ‘Deconstructing clusters: chaotic concept or policy panacea?’. *Journal Of Economic Geography*.3.1.5-35.
- †Isaksen A. and E. Hauge. 2002. Chapter 2 ‘Regional Clusters in Europe’, Observatory of European SMEs, No. 3, European Commission.
- Malmberg A. & Power D. 2005. “(How) Do (Firms in) Clusters Create Knowledge?” *Industry and Innovation*, Vol. 12, No. 4, 409–431.
- Wolfe D. and M. Gertler. 2004. “Clusters from the Inside and Out: Local Dynamics and Global Linkages” *Urban Studies* Vol. 41 Nos 5/6 1071-1093.
- Dunford, M. 2006. “Industrial districts, magic circles, and the restructuring of the Italian textiles and clothing chain”, *Economic Geography* , 82(1): 27-59.

Week 9 (Mar 3): Urban Dimensions: Talent, Culture, Buzz

- †Florida , R. 2002. “The economic geography of talent,” *Annals of the Association of American Geographers* 94(2): 743-55.
- †Peck, Jamie. 2005. “Struggling with the Creative Class.” *International Journal for Urban and Regional Research*.
- †Storper M. and A. Venables 2004. “Buzz: face-to-face contact and the Urban Economy”, *Journal of Economic Geography*, 4. 351-370.
- †Saxenian A. 1996. “Inside-Out: Regional Networks and Industrial Adaptation in Silicon Valley and Route 128.” *Cityscape* Vol. 2 No. 2
- Scott A. 2000. Chapter 2. In *The Cultural Economy of Cities*.
- Cooke P. and A. Piccaluga. 2004. *Regional Economies as Knowledge Laboratories* Cheltenham, U.K. and Northampton, Massachusetts: Edward Elgar
- Saxenian A. 2006., *The new argonauts: regional advantage in a global economy*. Cambridge, MA: Harvard University Press, 2006. 424pp.
- Glaeser E. 2000. “The New Economics of Urban and Regional Growth” in *The Oxford Handbook of Economic Geography*, eds. G. Clark, P. Feldman and M. Gertler, pp. 83-98.

Week 10 (Mar 10): Changing Scales of Economic Intervention: From the National to the Local

- †Swyngedouw E. 2004. “Globalisation or 'glocalisation'? Networks, territories and Rescaling” Cambridge Review of International Affairs.
- †Jessop B. 2004. “The Political Economy of State Rescaling” in *The Future of the Capitalist State*. Polity Press.
- †OECD 2007. Globalisation and Regional Economies: Can OECD Regions Compete in Global Industries?
- †Jessop B. 2004. “The Schumpeterian Competition State” in *The Future of the Capitalist State*. Polity Press.

Week 11 (Mar 17): Policies Influencing Urban Innovation

- †Creutzberg T. 2006. ‘Structuring Innovation: A comparative look at the collaborations and related policies supporting Ontario’s innovation capacity’. Queen’s Printer. Ontario Government.
- †Lundvall BA. And S. Borrás 2006. “Science, Technology and Innovation Policy”. In Fagerberg J. et al. (eds.) *The Oxford Handbook of Innovation* New York: Oxford University Press.
- †Lambright H. 2000. “Catalyzing Research Competitiveness: The Georgia Research Alliance” Prometheus Vol. 18 No. 4.
- Cooke P. 2007. “To Construct Regional Advantage from Innovation Systems First Build Policy Platforms” European Planning Studies Vol. 15, No. 2, February.
- Bromley, I. 2004. “Modern economic development planning: managing risk and negotiated co-investment”, Working Paper, Ontario Ministry of Economic Development and Trade
- Ontario’s Regional Innovation Networks. 2007. “The Critical Role of Regional Innovation Networks (RINs).

Week 12 (Mar 24): Governance of Urban Innovation

- †Bradford N. 2007. “Whither the Federal Urban Agenda? A New Deal in Transition” Research Report F|65 Canadian Policy Research Networks. February 2007
- †Henton D. J. Melville and K. Welsh. 1997. *Grassroots Leaders: How Civic Entrepreneurs Are Building Prosperous Communities*, San Francisco: Jossey-Bass Publications.
- †Donald B. 2005. “The Politics of Local Economic Development in Canada’s City-Regions: New Dependencies, New Deals and a New Politics of Scale. *Space and Polity* Vol. 9, No. 3 261-281 December.
- Brenner N. 2004. “Urban governance and the production of new state spaces in western Europe, 1960-2000”, *Review of International Political Economy*, 11:3: 447-488.
- Bradford N. 2004. “Place Matters and Multilevel Governance: Perspectives On A New Urban Policy Paradigm”. *Policy Options*.

Week 13 (MAR 31): Case Studies – Creating Urban Innovation Centres

†Pugh O'Mara M. 2005. Chapter 1 & “Building "Brainsville": The University of Pennsylvania and Philadelphia”. In *Cities of Knowledge: Cold War Science and the Search for the Next Silicon Valley*. Princeton: Princeton University Press.

†Best, M. 2001. “The resurgence of Route 128: the triumph of open systems”, Chapter 5 in *The New Competitive Advantage: The Renewal of American Industry*. Oxford: Oxford University Press, pp. 117-162.

†Hickling Arthurs Low 2007. *PEI BioCluster Competitive Analysis Project*, PEI Bioalliance.

Creutzberg, T. et al. (2006) *At a Crossroads: Strengthening the Toronto Region's Research and Innovation Economy*. Toronto : Toronto Region Research Alliance , November.