

Workshop	States of Innovation: Research Policy and Practice After 10 Years of the National Nanotechnology Initiative	
Sponsors	Innovation Research Group NSF Center for Nanotechnology in Society University of California, Santa Barbara Cluster 14, Région Rhône-Alpes	
Dates	April 28-30, 2010	
Workshop Locations	(click links for maps) April 28: Centre de calcul IN2P3-CNRS Domaine scientifique de La Doua, 43 Boulevard du 11 Nov 1918, Villeurbanne (in Lyon) April 29 & 30: Université de Lyon 3-Jean Moulin, <i>La rotonde</i> , 6 th floor, 18 rue Chevreul	
Workshop Hotels	Hôtel des Célestins 4 rue des Archers	Hôtel Carlton 4 rue Jussieu, Lyon 2
Workshop Reader	On line (link embedded)	
Attendees	By invitation	
Contacts	Chris Newfield, cnewf@english.ucsb.edu ; (0)6 07 87 88 96 Alain Rieu, amrieu@gmail.com ; (0)6 77 62 71 47 Léa Danilewsky, lea.danilewsky@univ-lyon2.fr , (0)6 42 04 69 29	

The U.S.'s National Nanotechnology Initiative was announced by President Bill Clinton 10 years ago. It reflected a consensus about technology-fueled economic growth, and incorporated established ideas about the importance of intellectual property rights, impact measurements, research funding, university-based technology transfer, and science-society relationships. This workshop is being convened to ask: Where does this innovation model currently stand? Are variants in Europe and Asia more successful? What does a decade's innovation research tell us about new approaches and needed reforms?

The workshop convenes a global array of analysts and participants to take stock of recent innovation research and practice, to share problems and solutions, and to discuss where policy should go. The sessions will make particular reference to the national innovation systems of the current science and technology leaders (the United States, the European Union, Japan, and Singapore), of emerging players (India), and of countries that could reposition themselves by adopting innovations policies in arenas such as nanotechnology and renewable energy (Egypt). It is organized into five topical sessions, with one intended outcome being a delineation of policy and strategic suggestions that will be published for broad audiences. Our work has particular urgency in the context of economic, social, and environmental challenges facing the world after the current financial, economic and social crisis.

Agenda

Wednesday, April 28

<p>5:30 PM – 7:30 PM</p> <p><i>Preconference Session</i></p> <p><i>Location:</i></p>	<p>The Changing Roles of Intellectual Property</p> <p>Lecturer: Gerald Barnett, Director Research Technology Enterprise Initiative University of Washington</p> <p>This session identifies the major IP reforms that have been proposed in the past decade in the United States. It compares them with reforms elsewhere. It notes evolution in university technology transfer offices, but asks how the tech transfer process could better support early-stage technologies in the US, EU, and elsewhere. It will focus on the importance of using IP to build research communities and on new incentives to shape this transition.</p> <p>Additional speakers:</p> <p>Béatrice Jaluzot - Assistant Professor, Institute of Political Science (Lyon) & Institute of East Asian Studies (CNRS), ENS de Lyon</p> <p>Stéphanie Lacour, CNRS: jurist and intellectual property specialist, Nanonorma and Centre d'études sur la coopération juridique internationale (Cecoji)</p>
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Thursday, April 29

<p>9:00 AM – 12:00</p>	<p>Science and Innovation Policies in Historical Perspective Coordinator: Chris Newfield, Professor of American Studies, Chair, Innovation Group, CNS-UC Santa Barbara</p> <p>Newfield will present the workshop's overall questions about the current state of innovation, and sketch an agenda for discussing whether and how nanotechnology has shaped recent innovation theory. This session will continue with a discussion of the ongoing influence of the linear model of innovation. It will identify weaknesses with current metrics and identify their impacts on the innovation process. The session will consider examples of nanoscale development from which lessons for a more accurate innovation model might be drawn, and lead to a general discussion of historical lessons for the innovation theory in its current state.</p> <p>Panelists:</p> <p>Benoît Godin, professor at the Centre d'Urbanisation, Culture, et Société de l'Institut national de la recherche scientifique, Québec, Canada.</p> <p>Patrick McCray, Professor of the history of science, University of California at Santa Barbara</p> <p>Carol Mimura, Assistant Vice Chancellor, Intellectual Property and Industry Alliances (IPIRA), Office of Technology Licensing UC Berkeley</p> <p>Ismael Rafols, Researcher in Innovation Governance, SRPU, University of Sussex</p>
<p>Noon – 2:00 PM</p>	<p>Lunch: À Point Café, 20 quai Claude Bernard</p>
<p>2:00 PM – 5:00 PM</p>	<p>Nanoscale Developments and Development Processes Coordinator: Daryl Boudreaux Associate Researcher, Innovation Research Group, CNS and Boudreaux & Associates, Nanotechnology Consultants</p> <p>This session will explore some impacts of nanoscale research. It will reflect on our research group's technology focus, solar energy, but also on materials development in general. It will attempt to parse the current landscape of solar research for successful and unsuccessful development strategies. After 10 years of nanotech funding, how are nanoscale innovations affecting solar technologies? This session will also summarize the new material science that industry needs to understand, identify systems issues that go beyond component efficiency, and discuss the impacts of the innovation system treated in Session 1. The speakers will also undertake to present an evaluation of nanotechnology's prototypical material, carbon nanotubes, to expose turning points in development processes and the impact that</p>

	<p>IP strategies have on such turning points. This discussion will serve as a basis for a more general discussion, in Session 4, of mapping decision turning points that characterize technology development.</p> <p>Panelists:</p> <p>Chris Knight, – energy policy analyst for the American Council for an Energy-Efficient Economy</p> <p>Marie Louise Saboungi, Directrice Centre de Recherche sur la Matière Divisée CNRS Orleans</p>
8:00 PM	<p>Conferees dine together, Le Comptoir des Marronniers, 8, rue des Marronniers, off la Place Bellecour</p>

Friday, April 30

9:00 AM - noon	<p>Innovation Systems at the Crossroads: Comparative International Conditions Coordinator: David Mowery Haas Business School, Public Policy Group University of California, Berkeley</p> <p>Here we shift focus from research to development and production, taking stock of the current state of the best practices that try to move technologies through the development and production process. The session identifies the value and limits of collaborative innovation. It seeks to create an inventory of what does and does not seem to work in a chosen industrial sector. The session will ask which practices should be preserved, and which replaced or augmented by new findings. The impact of changing research funding structures will be considered, as will prospects for new international multilateralism and cooperation. In the case of new forms of renewable energy, how can these be developed and adopted by poor as well as wealthy nations?</p> <p>Panelists:</p> <p>Dominique Foray, Chaire en Economie et Management de l'Innovation, Ecole Polytechnique Fédérale de Lausanne</p> <p>Yuko Harayama, Tohoku University, Professor of Management of Science and Technology, Graduate School of Engineering, Tohoku University); member of Japan's Science and Technology Agency.</p> <p>Shyama Ramani, Chargée de Recherche in Developmental and Innovation Economics, INRA, (National Institute of Agricultural Research), Department of Economics, France.</p>
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12:00 – 2:00 PM	Lunch break, Traiteur Guillard , 26, rue Chevreul
2:00 PM – 5:00 PM	<p>Research and Innovation Policies in Society. Coordinator: Alain-Marc Rieu, Social Epistemology, University of Lyon-Jean Moulin and Institute of East Asian Study (CNRS), ENS de Lyon</p> <p>Everyone now agrees that technology does not develop in a legal, social, cultural and institutional vacuum. Science and Technology Studies have proven the impact of research’s institutional environment. But society and culture remain “downstream” in most accounts of technology development. Today the question is: how can we conceive of the co-development of technology and society? Can institutional reforms intensify innovation and even change the course of research? This session will assemble the current state of the discussion about public involvement in technology development. A prospective BIN (Bio-Info-Nano) convergence has opened fundamental questions about the relations among science, technological development, economics, and social needs.</p> <p>Panelists:</p> <p>Yves Citton, Professor of Literature, U Grenoble 3, contributing editor at <i>Multitudes</i> and <i>La Revue internationale des livres et des idées</i>;</p> <p>May al-Ibrashy, architect and urban planner, Dept of Architectural Engineering, British University of Egypt.</p> <p>Tadashi Kabayashi, Center for the study of Communication-Design, Osaka University</p> <p>Brice Laurent, Centre de Sociologie de l'Innovation, Ecole des Mines, specialist in public participation in technological development with an emphasis on nanotechnology policy in France.</p> <p>Joelle Le Marec (Joelle.Le-Marec@ens-lsh.fr), Director, Center on Communication, Culture et Société, ENS de Lyon, Director, Cluster 14, Region Rhône-Alpes.</p> <p>Roger Malina, Professor of Astronomy, Observatoire Astronomique de Marseille Provence (OAMP), President Leonardo/OLATS: Observatoire Leonardo des Arts et Technosciences, Directeur, L’Institut Méditerranéen de Recherches Avancées, Marseille (IMéRA)</p>
5:00 PM – 6:00 PM	Workshop wrap up, planed next steps Chris Newfield, Gerald Barnett, Daryl Boudreaux, Alain Rieu
8:00 PM	Conferees Dine Together, Restaurant Jofé , 3 rue des Remparts d’Ainay (by l’abbaye d’Ainay)