

CURRICULUM VITAE

CONTACT INFORMATION

NAME: David P. Angel

ADDRESS: Office of the Provost
Clark University
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ADVANCED EDUCATION

Cambridge University, B.A, 1980

University of California, Los Angeles, Ph.D, 1989

EMPLOYMENT HISTORY

Current appointments:

2003- Provost and Vice President for Academic Affairs, Clark University

As Provost and Vice President for Academic Affairs, Dr. Angel is the chief academic officer of Clark University. Reporting to the President, the Provost oversees all undergraduate and graduate academic programs, as well as admissions, student affairs, sponsored research, and university libraries. Key accomplishments of the past six years include strengthening undergraduate programs, raising the research profile of the University, and investing in new academic facilities. The Provost chairs a variety of campus-wide committees, including the Campus Sustainability Taskforce which has responsibility for implementing the President's Climate Commitment at Clark University.

1997- Laskoff Professor of Economics, Technology and the Environment,
2002- Professor, School of Geography, Clark University

While serving as Provost, Dr. Angel also holds two academic appointments as Professor of Geography and also Laskoff Professor of Economics, Technology and the Environment at Clark

University. His current research focuses on global economic change and the environment. With support from the John D. and Catherine T. MacArthur Foundation, the Asian Development Bank, and the US National Science Foundation, Dr. Angel's research examines processes of capital investment and technological change in rapidly industrializing and urbanization economies that support both environmental improvement and poverty-reducing economic growth. Dr. Angel is a member of the Science Advisory Board of the International Human Dimensions Program on Industrial Transformation.

Previous appointments:

- 1997-02 Dean of Graduate Studies and Research,
Associate Provost, Clark University
- 1988-02 Assistant/Associate Professor, Graduate School of Geography,
Clark University
- 1993-94 Visiting Professor, Institute of Geoscience, University of
Tsukuba, Japan, and Queen Mary College London, England

SELECTED PROFESSIONAL ACTIVITIES

- 2009- Advisory Group on Undergraduate Education, Commonwealth of Massachusetts,
Commissioner of Higher Education
- 2004-2006 Consultant to the United Nations Industrial Development Organization
- 2003-2007 Book Series Editor, Routledge Press, Studies in Economic Geography
- 2000-2002 Technical Advisor, Asian Development Bank
- 1998- Science Advisory Board, International Human
Dimensions Program on Industrial Transformation
- 1998-99 Council of Advisors, Coalition of Environmentally
Responsible Economies
- 1997-2006 Editor, Economic Geography

RESEARCH GRANTS

United Nations Industrial Development Organization, 2004-2006 (with Michael Rock)
"Technological development in low-income countries: policy options for sustainable growth
\$100,000.

John D. and Catherine T. MacArthur Foundation, 2002-03 (with Michael Rock) "Policy integration, technology change and sustainability in East Asia" \$99,000.

National Science Foundation, Geography and Regional Science, 2002-03 (with Michael Rock) "The energy and pollution intensity of investment in the cement industry" \$105,718

National Science Foundation, Geography and Regional Science, 2001-02 (with Richard Peet) "Developing research protocols for the study of global economic change" (workshop) \$34,926

National Science Foundation, Geography and Regional Science, 1999-00, (for support of Rachel Slocum). "Doctoral dissertation research: urban commitments to greenhouse gas emissions reductions" \$7,312

National Science Foundation, 1998, (with Cutler Cleveland and Robert Socolow) Conference grant for IHDP Industrial Transformation Workshop, Boston, \$35,000

START, 1998, Conference grant for IHDP-Industrial Transformation Workshop, Bangkok, Thailand, \$20,000

United States Asia Environmental Partnership, 1998-99, "Towards a clean revolution in Asia", \$50,000 (total funding secured \$200,000).

National Council for Soviet and East European Research, 1996-97, (with Halina Brown) "Environment, health and safety of privatized firms in Poland", \$55,152

NASA Mission to Planet Earth, 1996-98, "Global Change in Local Places", (co-principal investigator and Module II Director; Robert Kates and Thomas Wilbanks, Principal Investigators) \$800,000.

Center for Global Partnership, 1995-96, "International collaboration in green technology development", \$60,000

U.S. Department of Education, 1995-97 (with Sharon Krefetz and Barbara Thomas-Slayter), "The International Studies Stream: A new approach to internationalizing the curriculum", \$160,000 (additional matching funds from Clark University)

National Science Foundation, Ethics and Values Studies, 1995-97, (with Halina Brown and Patrick Derr), "Environment, Health and Safety in Poland: confronting the transition", \$224,670

National Science Foundation, Geography and Regional Science, 1994-95, (for support of Gregory Theyel). "Doctoral dissertation research: geographical perspectives on innovation in pollution prevention" \$9,485

John D. and Catherine T MacArthur Foundation, Collaborative Studies Program, 1992-94, (with Jody Emel) "Institutional strategies for sustainable development: resource exploitation in western Siberia" \$177,986

Department of Commerce, Economic Development Administration, 1992-94, "Inter-firm cooperation in technology development: implications for states and local areas" \$87,250. Additional matching funds of \$14,250 from Clark University (total funding \$101,500).

Clark University, Research Office, 1991-2, seed fund grant for Center for Global Urban Studies, "Environmental regulation and economic growth: eco-technology industrialization in Massachusetts" \$12,929

National Science Foundation, Geography and Regional Science, 1992-93, REU supplement to grant SES 9109650, \$4,823

National Science Foundation, Geography and Regional Science, 1991-93, grant SES 9109650, "Restructuring innovation: geographical perspectives on technology development" \$79,000

National Geographic Society, 1987, Research Grant #3528-87 "Agglomeration and Local Labor Market Activity in the US Semiconductor Industry", \$4,100.

National Science Foundation, 1987, Doctoral Dissertation Improvement Grant, SES-8701108, "Labor Markets in the US Semiconductor Industry", \$4,421.

PUBLICATIONS

Books

Rock, M.T. and Angel, D. (2005) Industrial Transformation in the Developing World Oxford: Oxford University Press.

Angel, D and M. T. Rock (2000) Asia's Clean Revolution: Industry, Growth and the Environment. Sheffield, UK: Greenleaf Publishing.

Brown, H.S., Angel, D, and P. Derr (2000) Effective Environmental Regulation: Learning from Poland's Experience. Westport: Praeger.

Angel D (1994) Restructuring for Innovation: the remaking of the U.S. semiconductor industry. New York: Guilford Press.

Articles in refereed journals:

Angel, D. and Rock M. 2009 "Environmental Rationalities and the Development State in East Asia: Prospects for a Sustainability Transition" Technological Forecasting and Social Change 76 229-240

- Berkhout, F., Angel, D. and A. Wieczorek 2009 “Sustainability transitions in developing Asia: Are alternative development pathways likely?” Technological Forecasting and Social Change 76 215-217
- Berkhout, F., Angel, D. and A. Wieczorek 2009 “Asian development pathways and sustainable socio-technical regimes” Technological Forecasting and Social Change 76 218-228
- Angel, D., Hamilton, T. and M. Huber 2007 “Global environmental standards for industry” Annual Review of Energy and the Environment 32 295-316
- Rock, M. and Angel, D. 2007 “Grow first, Clean up later? Industrial Transformation in East Asia” Environment 49(4) 8-19
- Rock, M. and Angel, D. 2006 "Impact of Multinational Corporations ' Firm-Based Environmental Standards on Subsidiaries and Their Suppliers: Evidence from Motorola-Penang" Journal of Industrial Ecology 10 257-278
- Angel D. and Rock M. 2005 “Global standards and the environmental performance of industry” Environment and Planning A 37 1903-1918.
- Angel, D and Rock, M. (2003) Engaging economic development agencies in environmental protection: the case for embedded autonomy. Local Environment 8 45-59.
- Angel, D (2002) Studying global economic change: editorial. Economic Geography 78 253-255.
- Angel, D. (2002) Inter-firm collaboration in technology development within US manufacturing industries. Regional Studies 36 333-344
- Brown H, Angel D, Broszkiewicz R, Krzyskow B (2001) “Occupational health and safety in Poland in the 1990s: a regulatory approach adapting to societal transformation” Policy Sciences 34 247-271
- Brown H, and D. Angel (2000) “Environmental regulatory reform in Poland: lessons for industrializing economies” Environmental Science and Technology 34 3849-3856
- Angel D, Brown H, Broszkiewicz, R and S Wronski (2000) “Environmental regulation of privatized industry in Poland” Environment and Planning C 18 575-92.
- Rock M, Angel D and T Feridhanusetyawan (1999) “Industrial ecology and clean development in East Asia” Journal of Industrial Ecology 3: 29-42
- Angel D, Attoh S, Kromm D, DeHart J, Slocum R, White S. (1998) “The drivers of greenhouse gas emissions: what do we learn from local case studies?” Local Environment 3 263-277

- Brown H, Angel D, Derr, P (1998) "Environmental protection in Poland in the 1990s" Environment 40 10-37
- Angel D, Huber J, (1996) "Sustainable industries for sustainable societies" Business Strategy and the Environment 5 127-136
- Angel D, Savage L, 1996 "Global-localization? Japanese R&D laboratories in the USA" Environment and Planning A: 28 819-833
- Angel D, Jonas A, Theyel G, (1995) "Constructing consensus: environmental policy making in Massachusetts" Urban Geography 16 397-413
- Emel J, Bridge G, Angel D 1995 "New models for exhaustible resource development" Business Strategy and the Environment 4 200-207
- Angel D, Engstrom J, 1995 "Manufacturing systems and technological change: the U.S. personal computer industry" Economic Geography 71 79-102
- Angel D, 1994 "Tighter bonds? Customer-supplier linkages in semiconductors" Regional Studies 28 187-200
- Angel D, 1992 "Meeting the demand for affordable housing: state intervention in Massachusetts" Housing Studies 7 243-254
- Angel, D 1991 "High technology agglomeration and the labor market" Environment and Planning A: 23 1501-1516. Also published in M. Kenney (ed.) 2000 Understanding Silicon Valley: anatomy of an entrepreneurial region Stanford: Stanford University Press.
- Angel D, Mitchell J, 1991 "Inter-metropolitan wage disparities and industrial change" Economic Geography 67 124-135
- Angel D, 1990 "New firm formation in the semiconductor industry: elements of a flexible manufacturing system" Regional Studies 24 211-221
- Angel D, 1989 "The labor market for engineers in the U.S. semiconductor industry" Economic Geography 1989 65 99-112
- Scott A, Angel D, 1988 "The global assembly operations of US semiconductor firms: a geographical analysis", Environment and Planning A 20 1047-1067
- Scott A, Angel D, 1987 "The US Semiconductor industry: a locational analysis", Environment and Planning A 19 875-912

Chapters in Books/Monographs

Rock, M. and Angel D 2008 “The impact of open trade and investment regimes on environmental outcomes in East Asia’s capitalist development states” in K. Gallagher Handbook on Trade and the Environment. Cheltenham: Edward Elgar 136-146.

Rock, M. and Angel D 2006 Technological development in low-income countries: policy options for sustainable growth (monograph). Vienna: United Nations Industrial Development Organization.

Angel, D. 2006 “Towards an environmental economic geography” in S. Bagchi-Sen and H. Lawton Smith Economic Geography: Past, Present and Future. London: Routledge, 126-135.

Angel D, Attoh S, DeHart J, Kromm D, White S, (2002) “Explaining greenhouse gas emissions from localities” in R. Kates, T. Wilbanks, R. Abler (2002) Global Change in Local Places Cambridge: Cambridge University Press

Angel D (2001) “Toward Policy Integration” in Asian Environmental Outlook 2001. Manila, Asian Development Bank, pp. 43-60.

Angel D, Rock M (2001) Policy Integration: Environment and Development in Asia. (monograph). Manila: Asian Development Bank.

Angel D, (2000) “Asia-Pacific into the 21st Century” in UNESCAP State of the Environment in Asia –Pacific 2000. Bangkok: United Nations Economic and Social Commission for Asia and the Pacific.

Angel D, Rock M (2000) “Toward clean shared growth in Asia” in D. Angel, M. Rock (eds) Asia’s Clean Revolution: industry, growth and the environment. Sheffield, UK: Greenleaf, pp 11-37.

Angel D, 2000 “Environmental innovation and regulation” in G. Clark, M. Gertler, M Feldman (eds) Handbook of Economic Geography Oxford: Oxford University Press, pp. 607-622.

Angel D, 1999 “The Greening of Industry” in Encyclopedia of Global Change Oxford University Press, Oxford: Oxford University Press

Angel D, 1998 “International cooperation, technology and the sustainability challenge” in N. Roome (ed) Sustainability Strategies for Industry Washington, DC: Island Press.

Angel D, Savage L, 1997 “Globalization of R&D in the electronics industry” in R. Lee, J. Wills (eds) Geographies of Economy Edward Arnold, London, pp 209-218.

Angel D, 1995 Inter-firm Collaboration in Technology Development

Report to the Department of Commerce, Economic Development Administration. Washington D.C.: NTIS

SELECTED CONFERENCE PRESENTATIONS

“Development trends in Asia and Implications for sustainability, IHDP Industrial Transformation meetings, Chiang Mai, Thailand. July 2006.

“Environmentally-conscious manufacturing” (panel discussant), USEPA, Washington, D.C., October 2005.

“Designing and Implementing Environmentally Sound Technological Development Strategies and Policies in Low-income Countries” UNIDO, Vienna, July 2004.

“Using and developing theory in environmental economic geography” University of Cologne conference on environmental economic geography, May 2004.

“Local and global determinants of environmental performance in the cement industry” Annual Meeting of the Association of American Geographers, April 2003

“Policy Integration: alternative approaches to environment and development in Asia”, Annual Meeting of the Association of American Geographers, Los Angeles, March 2002

“Geographies of the firm”, session organizer and chair, Annual Meeting of the Association of American Geographers, New York, March 2001

“Geographies of economic change”, Human Geography Symposium, University of Oslo, Norway, October 2000

“Policy integration in Asia Pacific”, Asian Development Bank/USAEP AEO, 2001, Rocky Mountain Institute, Aspen, Colorado, September 2001

“Geographies of global economic change”, plenary speaker, International Geographical Congress, Seoul, Korea, August 2000

“Globalization and the environment”, panel discussion, Annual Meeting of the Association of American Geographers, Pittsburgh, April 2000.

“Toward clean shared growth in Asia”, USAEP and Asian Development Bank, Manila, Philippines, August 1999

“Industrial transformation processes”, 3rd International Human Dimensions of Global Environmental Change meeting, Shonan Village, Japan, June 1999

“Towards a clean revolution in Asia”, Plenary Speaker, Greening of Industry Conference, Bangkok, Thailand, November 1998

“Global change in local places”, 2nd International Human Dimensions of Global Environmental Change Meeting, Laxenburg, Austria, 1997

“Globalizing the curriculum” Title VIA panel, International Studies Association, Toronto, Canada, April 1997

“Driving greenhouse gasses: the view from below” Annual Meeting, American Academy of Sciences, Seattle, January 1997

“Developing breakthrough green technologies” Greening of Industry Conference, Heidelberg, Germany, November 1996

“Mapping policy on to technology”, Industrial ecology seminar, Massachusetts Institute of Technology, April, 1996

“International collaboration in green technology development” Annual Meeting of the Association of American Geographers, Charlotte, April 1996

"Alliances and R&D in the electronics industry: the recent experience of Japan" Annual Meeting of the Association of American Geographers, Chicago, April 1995

"Alliances and R&D in the global economy". Annual Meeting of the Institute of British Geographers, Newcastle, January 1995

"New models for exhaustible resource development" (with Jody Emel and Gavin Bridge). Greening of Industry Conference, Copenhagen, November 1994.

"Green technology in the USA and Japan", Abe Fellows Colloquium, Center for Global Partnership, Japan, June 1994

"Beyond flexibility", session organizer and chair, Industrial Geography Specialty Group, Annual Meeting of the Association of American Geographers, San Francisco CA, 1994.

"Japanese R&D in the United States", Annual Meeting of the Association of American Geographers, San Francisco, March 1994.

"The political feasibility of ecological cities: ecotech employment, urban development and environmental policy", OECD Environment Directorate, Meeting of Group on Urban Affairs, Paris, November 1993.

"Cooperation and competition in territorial context", session organizer, Industrial Geography Specialty Group, Annual Meeting of the Association of American Geographers, Atlanta GA, 1993.

"International cooperation in technology development", Industrial Geography Specialty Group, Annual Meeting of the Association of American Geographers, Atlanta, 1993

"Environmentally sensitive technology: opportunities for regional growth" Invited participant in the fifth Global Change Institute, Industrial Ecology and Global Change, Office for Interdisciplinary Earth Studies, Snowmass CO, June 1992

"Restructuring innovation: organizational and geographical perspectives on technological change", Session organizer and chair, Annual Meeting of the Association of American Geographers, San Diego, March 1992

"Manufacturing systems and technological change: the computer industry", plenary session, Industrial Geography Specialty Group, Annual Meeting of the Association of American Geographers, San Diego, March 1992

"Housing affordability in Massachusetts", Annual Meeting of the Association of American Geographers, Miami, 1991

"Industrial location theory new and old", commissioned presentation to regional development seminar, Lincoln Land Institute, Cambridge MA, 1991

Ph.D Advisees (committee chair)

Trina Hamilton (co-chair). Breaking the Brand: The Social Regulation of Multinational Corporations. May 2006.

Rachel Slocum. Possibility and the climate politics of the cities for climate protection campaign. PhD awarded May 2001.

James Engstrom. Industry, social regulation, and scale: the carpet-manufacturing complex of Dalton, Georgia. PhD awarded May 1998.

Gregory Theyel. Environmental management practices and industrial transformation: the U.S. chemical industry. PhD awarded May 1997.

Jeffrey Mitchell. From oil rents to urban rents: the inconstant regulation of private investment in the built environment in Caracas, Venezuela, 1950-90. PhD awarded May 1996.