

Laurel Smith-Doerr

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Education:

University of Arizona (Tucson, AZ)

Doctor of Philosophy, Sociology, May 1999. Dissertation: "Career Paths in the Life Sciences: Processes and Outcomes of Organizational Change."

University of Arizona

Master of Arts, Sociology, December 1993.

Pomona College (Claremont, CA)

Study abroad, University College, Oxford, UK, 1989.

Bachelor of Arts, Sociology, Cum Laude, Phi Beta Kappa, May 1991.

Book published:

Smith-Doerr, Laurel. *Women's Work: Gender Equality vs. Hierarchy in the Life Sciences*. 2004. Boulder, CO: Lynne Rienner Publishers.

Journal articles published:

Smith-Doerr, Laurel. "Decoupling Policy and Practice: How Life Scientists in Three Nations Respond to Policies Requiring Ethics Education." 2008. *Minerva* 46:1-16.

Whittington, Kjersten and Laurel Smith-Doerr. "Women Inventors in context: Effects of Organizational Context on Disparities in Patenting." 2008. *Gender & Society* 22(2): 194-218.

Smith-Doerr, Laurel. "Stuck in the Middle: Doctoral Education Ranking and Career Outcomes for Life Scientists." 2006. *Bulletin of Science, Technology and Society* 26 (3): 243-255.

Smith-Doerr, Laurel. "Institutionalizing the Network Form: How Life Scientists Legitimate Work in the Biotechnology Industry." 2005. *Sociological Forum* 20(2): 271-299.

Whittington, Kjersten Bunker and Laurel Smith-Doerr. "Gender and Commercial Science: Women's Patenting in the Life Sciences." 2005. *Journal of Technology Transfer* 30: 355-370.

Smith-Doerr, Laurel. "Flexibility and Fairness: Effects of the Network Form of Organization on Gender Equity in Life Science Careers." 2004. *Sociological Perspectives* 47(1): 25-54.

Smith-Doerr, Laurel, Ivan Manev and Polly Rizova. "The Meaning of Success: Network Position and the Social Construction of Project Success in an R&D Lab." 2004. *Journal of Engineering and Technology Management* 21(1-2): 51-81.

Powell, Walter W., Kenneth W. Koput, James I. Bowie, and Laurel Smith-Doerr. "The Spatial Clustering of Science and Capital: Accounting for Biotech Firm-Venture Capital Relationships." 2002. *Regional Studies* 36 (3): 291-305.

Powell, Walter W., Kenneth W. Koput, and Laurel Smith-Doerr. "Interorganizational Collaboration and the Locus of Innovation: Networks of Learning in Biotechnology." 1996. *Administrative Science Quarterly* 41: 116-45.

Republished in 2005 in *Markets*, Chapter 7, edited by M.Y. Abolafia. Cheltenham, UK: Edward Elgar.

Republished in 2005 in *Networks*, Vol. II, Chapter 5, edited by G. Grabher and W. Powell. Cheltenham, UK: Edward Elgar.

Republished in 2005, Pp. 247-290 in *Collection of the Administrative Science Quarterly Award-Winning Papers*, edited and translated into Chinese by A.S. Tsui and W. Zhang. China: Peking University Press.

Republished in 2006 in *The Economics of Biotechnology*, Vol. II, Chapter 3, edited by M. McKelvey and L. Orsenigo. Cheltenham, UK: Edward Elgar.

Book chapters published:

Croissant, Jennifer and Laurel Smith-Doerr. "Organizational Contexts of Science: Boundaries and Relationships between University and Industry." 2007. Chapter 28 in *New Handbook of Science and Technology Studies*, edited by J. Wajcman, E. Hackett, O. Amsterdamska and M. Lynch. Cambridge, MA: MIT Press.

Smith-Doerr, Laurel. "Learning to Reflect or Deflect? U.S. Policies and Graduate Programs' Ethics Training for Life Scientists." 2006. Pp. 405-431 in *The New Political Sociology of Science: Institutions, Networks, and Power*, edited by S. Frickel and K. Moore. Madison, WI: University of Wisconsin Press.

Smith-Doerr, Laurel and Walter W. Powell. "Networks and Economic Life." 2005. Pp. 379-402 in *Handbook of Economic Sociology, Second Edition*, edited by N.J. Smelser and R. Swedberg. Princeton, NJ: Russell Sage Foundation/Princeton University Press. (All new chapter for second edition).

Powell, Walter W., Kenneth W. Koput, Jason Owen-Smith, and Laurel Smith-Doerr. "Network Position and Firm Performance: Organizational Returns to Collaboration in the Biotechnology Industry." 1999. Pp. 129-59 in *Networks in and Around Organizations*, Volume 16 of *Research in the Sociology of Organizations*, edited by S.B. Andrews and D. Knoke. Greenwich, CT: JAI Press.

Smith-Doerr, Laurel, Jason Owen-Smith, Kenneth W. Koput and Walter W. Powell. "Networks and Knowledge Production: Collaboration and Patenting in Biotechnology." 1999. Pp. 390-408 in *Corporate Social Capital and Liability*, edited by R.T.A.J. Leenders and S. Gabbay. Norwell, MA: Kluwer Academic Publishers.

Koput, Kenneth W., Laurel Smith-Doerr and Walter W. Powell. "Strategies of Learning and Industry Structure: The Evolution of Networks in Biotechnology." 1997. Pp. 229-54 in *Organizational Learning and Strategic Management*, Volume 14 of *Advances in Strategic Management Research*, edited by J.P. Walsh and A.S. Huff. Greenwich, CT: JAI Press.

Powell, Walter W. and Laurel Smith-Doerr. "Networks and Economic Life." 1994. Pp. 368-402 in *The Handbook of Economic Sociology*, edited by N.J. Smelser and R. Swedberg. Princeton, NJ: Princeton University Press.

Book Reviews and Other Publications:

Smith-Doerr, Laurel. Book review of *The Politics of Working Life*, by Paul Edwards and Judy Wajcman. *American Journal of Sociology* 113:1443-5.

Walske, Jennifer, Laurel Smith-Doerr and Andrew Zacharachis. "Effects of Venture Capital Syndication Networks on Entrepreneurial Success." *Frontiers for Entrepreneurship Research 2007: Proceedings of the 27th Annual Entrepreneurship Research Conference*. Babson Park, MA: Arthur M. Blank Center for Entrepreneurship at Babson College.

Smith-Doerr, Laurel and Courtney Feldscher. Book review of *Women, Gender and Technology*, edited by M.F. Fox, S. Rosser, and D. Johnson. *Contemporary Sociology* 36(5): 439.

Monti, Daniel J., Laurel Smith-Doerr and James McQuaid. 2007. *Immigrant Entrepreneurs in the Massachusetts Biotechnology Industry*. Report prepared for and published by the Immigrant Learning Center, Inc. Malden, MA.

Smith-Doerr, Laurel. "The Ethics of Innovation: How Life Scientists Learn to Think About the Broader Contexts of their Research." 2006. Series: European forum, European University Institute Working Paper, Robert Schuman Centre for Advanced Study, No. 2006/13, available from: www.iue.it/RSCAS/Publications.

Smith-Doerr, Laurel. "Network Analysis." 2005. Entry in *International Encyclopedia of Economic Sociology*, edited by J. Beckert and M. Zafirovski, p. 469-475. London: Routledge.

Smith-Doerr, Laurel. Book review of *Everyday Bioethics: Reflections on Bioethical Choices in Daily Life*, by Giovanni Berlinguer. 2004. *Contemporary Sociology* 33 (1): 106-107.

Smith-Doerr, Laurel. Book review of *Social Structure and Organizations Revisited, Vol. 19, Research in the Sociology of Organizations*, edited by Michael Lounsbury and Marc J. Ventresca. 2003. *Contemporary Sociology* 32 (6): 710-11.

Smith-Doerr, Laurel and Morton S. Isaacson. Syllabus for "Technology and Society." 2003. Pp. 145-149 in *Science, Knowledge, & Technology: Syllabi and Instructional Materials, Fourth Edition*, edited by J. L. Croissant. Washington, DC: American Sociological Association.

Smith-Doerr, Laurel. Book review of *Beyond the Bottom Line: The Search for Dignity at Work*, by Paula M. Rayman. 2002. *Journal of Comparative Family Studies* 33 (2): 313-15.

Work In Progress:

Smith-Doerr, Laurel. "Discourses of Dislike: Scientists' Responses to Ethics Education Policies in the United Kingdom, European Union, and the United States." Manuscript under review.

Smith-Doerr, Laurel. "Contexts of Equity: Thinking about Organizational and Technoscience Contexts for Gender Equity in Biotechnology and Nanotechnology." Chapter under review for *The Yearbook of Nanotechnology in Society*, edited by S. Cozzens and J. Wetmore.

Smith-Doerr, Laurel and Andrea Stith. "Questions and Methods for Investigating Barriers in Educational Systems." Concept paper under review for volume *Intergenerational Voices on Women in Science and Engineering*, edited by P. Rayman et al.

Smith-Doerr, Laurel and Jennifer L. Croissant. "A Feminist Approach to University-Industry Relationships: Integrating Theories of Gender, Politics and Capital." Manuscript under review.

Smith-Doerr, Laurel. "Flexible Organizations, Innovation, and Gender Equality: Writing for the US Film Industry, 1907-1927." Manuscript under review.

McQuaid, James, Laurel Smith-Doerr and Daniel J. Monti. "Expanding Entrepreneurship: Women and Immigrant Founders of Massachusetts Biotechnology Firms." Forthcoming in *American Behavioral Scientist*.

Areas of Specialty:

Organization Theory and Economic Sociology
Science, Technology and Society
Gender Inequalities
Social Networks

Teaching and Administrative Positions and Experience:

Visiting Scientist; US National Science Foundation (NSF), 2007-present.

NSF Program Director in:

*Science, Technology & Society Program (Directorate of Social, Behavioral and
Economic Sciences; Division of Social and Economic Sciences)
Ethics Education in Science and Engineering (Cross-Directorate Program)*

Associate Professor of Sociology; Boston University, 2007-present.

Assistant Professor of Sociology; Boston University, 1999-2007.

Graduate Teaching Associate; Dept. of Sociology, University of Arizona, 1994-1997.

Undergraduate courses taught:

*Introduction to Sociology
Sociological Research Methods
Business and Society
Technology and Society
Social Networks
Sociology of Religion
Complex Organizations
Gender Stratification*

Graduate seminars taught:

*Gender Stratification
Research Methods Proseminar
Formal Organizations*

Invited Lectures:

“Contexts of Equity: Thinking about Organizational and Technoscience Contexts for Gender Equity in Biotech and Nanotech.” Invited presentation at workshop on “Nanotechnology, Equity, and Equality,” Arizona State University, November 2008. Tempe, AZ.

“Gender Equity in Science: Lessons from the Life Sciences.” Invited keynote address for workshop on “Diversity in Physics,” at annual meeting of Relativistic Heavy Ion Collider (RHIC) /Alternating Gradient Synchrotron (AGS) Users' Meeting, Brookhaven National Laboratories. May 2008. Long Island, NY.

“The Status of Women Scientists in Knowledge Based Biotechnology Firms.” Presentation at invited panel on “New Frontiers in the Knowledge Economy” at the annual meetings of the American Association of Geographers, April 2008. Boston, MA.

“Network vs. Hierarchy: Organizational Form and Equity in Innovative Workplaces.” Invited presentation at University of Oregon, Lundquist College of Business, March 2008. Eugene, OR.

“Theory at the Meso-Level: Women’s (Interdisciplinary) Work in the Life Sciences.” Invited presentation at workshop on “Women, Minorities and Interdisciplinarity,” Columbia University, November 2007. New York, NY.

“Immigrant Entrepreneurs in the Massachusetts Biotechnology Industry.” Invited presentation at the “Can We Compete? Trends in America’s Scientific and Technical Workforce” conference, commission on Professionals in Science and Technology, American Association for the Advancement of Science, November, 2007. Washington, DC.

“Immigrant Entrepreneurs in the Massachusetts Biotechnology Industry.” Report prepared for the Immigrant Learning Center, Inc. Presented at Boston Private Bank, with Daniel J. Monti and James McQuaid. June 2007. Boston, MA.

“Getting Past Ethics Requirements: Life Scientists and Ethics Education Policies in the US and Europe.” Invited presentation to workshop on “Exploring Innovation Processes in Healthcare: The Challenges of Collaboration and Governance,” Bentley College. May 2006. Waltham, MA.

“Getting Past Ethics Requirements: Life Scientists and Ethics Education Policies in the US and Europe.” Invited presentation to the Center for Research in Higher Education, University of Arizona. March 2006. Tucson, AZ.

“Getting Past Ethics Requirements: Life Scientists and Policies for Ethics Education in the US, the UK, and Italy.” Invited presentation to the MIT/Harvard Organizations Studies Group Seminar Series, Sloan School of Management, Massachusetts Institute of Technology. February 2006. Cambridge, MA.

“How Do Life Scientists Learn about the Ethical Implications of Innovation?” Invited paper presented at the “Sociology of Bioethics” conference (concurrent with the Eastern Sociological Society annual meetings). March 2005. Washington, DC.

“University-Industry Collaboration in Biotechnology and Career Paths for Life Science PhDs.” Invited presentation at the conference on University-Industry Research Relationships, Haas School of Business, University of California-Berkeley, August 1998. Berkeley, CA.

Conference Papers Presented:

“A Feminist Approach to University-Industry Relationships: Integrating Theories of Gender, Politics and Capital.” With Jennifer Croissant. Paper presented at annual meetings of the Society for Social Study of Science. August 2008. Rotterdam, Netherlands.

“Expanding Entrepreneurship: Women and Foreign-Born Founders of Massachusetts Biotechnology Firms.” With James McQuaid and Daniel J. Monti. Paper presented at the American Sociological Association annual meetings, August 2008. Boston, MA.

"Discourses of Dislike: Scientists' Responses to Ethics Education Policies in the United Kingdom, European Union and the United States." Paper presented at the American Sociological Association annual meetings. August 2007. New York, NY.

"A Feminist Approach to University-Industry Relationships: Integrating Theories of Gender, Politics and Capital." With Jennifer Croissant. Paper presented in session on "Economy and Science" at the annual meetings of the American Sociological Association, August 2006, Montreal, Canada.

"Herding Cats: Bioethics education policies, unruly life scientists and anomalous local narratives in the US, Italy and the UK." Presented at the annual meetings of the Society for the Social Study of Science. October 2005. Pasadena, CA.

"Quality vs. Quantity: Women's Patenting in the Life Sciences." With Kjersten Bunker Whittington. Presented at the annual meetings of the Technology Transfer Society, Kauffman Foundation for Entrepreneurship. September 2005. Kansas City, MO.

"Globalized Science Ethos, Localized Ethics Training: Policies for Life Scientists in the US, Italy and the UK." Presented at the annual meetings of the American Sociological Association. August 2005. Philadelphia, PA.

"The Ethics of Innovation: How Life Scientists Learn to Think About the Broader Contexts of Their Research." Presented at the final symposium of the European Forum on Universities and Innovation Systems, Robert Schuman Centre for Advanced Studies, European University Institute. June 2005. Florence, Italy.

"Gender and Commercial Science: Is there a Gap and What are the Effects of Academic and Commercial Contexts?" With Kjersten Bunker Whittington. Presented at the annual meetings of the American Sociological Association. August 2004. San Francisco, CA.

"Incentive to Change or Rational Myth?: U.S. Policies Tying Funding to Research Ethics and the Effects on Life Science Ph.D. Programs." Paper presented at the annual meetings of the Society for the Social Study of Science. October 2003. Atlanta, GA.

"A New Productivity Puzzle? The Effects of Blurred Boundaries between Academic and Commercial Science on Gender Stratification in Life Science Careers." With Kjersten Bunker Whittington. Paper presented at the annual meetings of the Society for the Social Study of Science. October 2003. Atlanta, GA.

"The Meaning of Success: Network Position and the Social Construction of Project Success in an R&D Lab." With Polly Rizova and Ivan Manev. Paper presented at the annual meetings of the American Sociological Association. August, 2003. Atlanta, GA.

"Teaching Dilemmas: The Visibility of Ethics Training in Life Science Ph.D. Programs." Paper presented at the annual meetings of the Society for the Social Study of Science. November, 2002. Milwaukee, WI.

"Flexible Organizations and Gender Equality: Writing for the Movies, 1907-1927." Presented at annual meetings of American Sociological Association, August 2002. Chicago, IL.

“Where’d You Get Your PhD?': Education Ranking and Inequality Among Life Scientists.” Paper presented at the annual meetings of the Society for the Social Study of Science, November, 2001, Cambridge, MA.

“Ethics at the Bench?: The Provision of Ethics Training in Life Science PhD Programs.” Presented at the annual meetings of the American Sociological Association, August 2001. Anaheim, CA.

“Stuck in the Middle: Effects of Education Rank on the Careers of Life Science PhDs.” Presented at the annual American Sociological Association meetings, August 2000. Washington, DC.

“Not Just for Old Boys: Forms of Economic Organization and Gender Inequality in Life Science Careers.” Presented at the annual American Sociological Association meetings, August 1998. San Francisco, CA.

“Interorganizational Relations and Elite Sponsorship: Mobilizing Resources in Biotechnology.” With Kenneth W. Koput and Walter W. Powell. Presented at the annual American Sociological Association meetings, August 1998. San Francisco, CA.

“Framing Scientific Careers: Biotechnology as Legitimate Science.” Presented at the annual meetings of the Society for Social Studies of Science, October 1997. Tucson, AZ.

“The Emergence of the Biotechnology Industry and the Changing Labor Market for Biomedical PhDs.” Presented at the annual meetings of the American Sociological Association, August 1997. Toronto, Canada.

“Science Within Organizations: Differences in the Organization of Work between a Biotechnology Firm and a University Laboratory.” Presented at the annual meetings of the American Sociological Association, August 1994. Los Angeles, CA.

Grants and Awards Received:

“Immigrant Entrepreneurs in the Massachusetts Biotechnology Industry.” Grant from Immigrant Learning Center, Inc. Malden, MA. 2006-2007.

Jean Monnet Fellowship to the Robert Schuman Centre for Advanced Studies at the European University Institute. Fellow in the European Forum on Universities and Innovation Systems. Florence, Italy. 2004-2005.

Award for Scholarly Contribution from *Administrative Science Quarterly*, for “Interorganizational Collaboration and the Locus of Innovation: Networks of Learning in Biotechnology,” as the best article published in the five years previously. 2002.

Humanities Foundation Grant for supporting archival research, Boston University. Funding for access to Widener library at Harvard University. 2002-2003.

Summer Seed Grant, for improving dissertation, Social and Behavioral Sciences Research Institute, University of Arizona, 1996.

Dissertation Proposal Award, Department of Sociology, University of Arizona, Spring 1996.

Graduate Research Grant, Social and Behavioral Sciences Research Institute, University of Arizona. Support for travel to collect dissertation data. Spring 1996.

Summer Research Grant, Program on Nonprofit Governance, Center on Philanthropy, Indiana University, Aspen Institute, 1993.

William Lincoln Honnold Fellowship for graduate study, Pomona College, 1991.

Professional Service:

Elected to the Council of the Science, Knowledge and Technology section of the American Sociological Association, 2007-9.

Discussant for panel on "The Evolving Research Enterprise" at the 2008 meetings of the Association for Public Policy Analysis and Management. Los Angeles, CA.

Organizer and presider for regular sessions on "Organizations" at the 2008 meetings of the American Sociological Association. Boston, MA.

Discussant for roundtable on "Gender in Science and Engineering", Sex and Gender section, at the 2008 annual meetings of the American Sociological Association, Boston, MA.

Discussant for panel on "Transnational Processes," at the 2007 meetings of the American Sociological Association. New York, NY.

Discussant for panel on "Organizational Processes and Individual Inequality: Contexts, Careers, and Change," at the 2006 meetings of the Eastern Sociological Society. Boston, MA.

Advisory Panelist for US National Science Foundation programs. 2005. 2007. Arlington, VA.

Session Organizer and Presider for an Organizations, Occupations and Work section panel on "Network Organizations: Synthesizing Instrumentalism and Trust" at the 2002 meetings of the American Sociological Association. Chicago, IL.

Member of the selection committee for the Robert K. Merton award for best book, Science, Knowledge and Technology section of the American Sociological Association, 1997, 2001, 2007.

Elected as student member to the council of the Science, Knowledge and Technology section, American Sociological Association, 1996-99.

Member of the Awards committee for Hacker-Mullins award for best student paper, for the Science, Knowledge and Technology section of the American Sociological Association, 1997, 2009.

Graduate student intern, *Contemporary Sociology*, 1992-93.

Peer reviewer for:

Academy of Management Journal
Academy of Management Review
American Journal of Sociology
American Sociological Review
Industrial Relations
International Journal of Innovation and Technology Management
Journal of Higher Education
Journal of Technology Transfer
National Women's Study Association Journal
Nonprofit and Voluntary Sector Quarterly
Organization Science
Routledge Publishers
Research Policy
R&D Management
Science, Technology & Human Values
Sex Roles: A Journal of Research
Social Forces
Social Politics: International Studies in Gender, State and Society
Social Problems
Social Studies of Science
Sociological Forum
U.S. National Science Foundation
(programs: ADVANCE, Cyberinfrastructure, Ethics Education in Science
and Engineering, Information Technology Research, Innovation and
Organizational Change, Science and Society, Sociology)
Worth/St. Martin's Publishers

Professional Memberships:

American Sociological Association, 1991-present. Section member in Organizations, Occupations and Work; Science, Knowledge and Technology; Economic Sociology.

Association for Women in Science, 2008-present.

Society for the Social Study of Science, 1997-present.

Public Intellectual Role:

Smith-Doerr's research on U.S. ethics training requirements for scientists (subsequently published as a chapter in *The New Political Sociology of Science*) referenced in article "Ethical Conflicts Plague NIH," by Sarah Webb in *Discover* magazine, Vol. 26, No. 1. January 2005.

Smith-Doerr and Powell's 2005 *Handbook of Economic Sociology* chapter, "Networks in Economic Life" was quoted in the *Boston Globe* on Sunday July 24, 2005 in Ideas section (p. D1) article headlined as "Market Share Economists have Long Used their Tools to Study Social Phenomena. Now Sociologists are Learning to Stop Worrying and Love—or at Least Study—the Market," by Virginia Postrel.

Television interview on "Liz Walker Sunday" a Boston newsmagazine show, aired on CBS on August 7, 2005. Smith-Doerr, asked to reflect on technology and society, discussed how the ways that we organize technology affect our work and home lives.

Smith-Doerr, Laurel. "Women Scientists Also Work Outside Academia." E-letter published in *Science* magazine responding to "More Women in Science" by Handelsman et al. 13 September 2005.

Television interview on "New England Business Day" show on New England Cable News, June 23, 2006. Discussion on internet technology and society.

Bunker Whittington and Smith-Doerr's 2005 *Journal of Technology Transfer* article on the gender gap in patenting cited on August 31, 2006 in article entitled "Mothers of Invention?," by Emma Marris in *Nature* 442: 973.

Smith-Doerr's 2006 *Bulletin of Science, Technology and Society* article on how doctoral education ranking affects career outcomes featured in November 2006 article entitled "Third Tier Grads Do Better than Mid-ranked Grads," by Kathleen McGowan in *The Scientist* 20: 78.

Smith-Doerr's 2006 *Bulletin of Science, Technology and Society* article on doctoral ranking and career outcomes featured in Commission on Professionals in Science and Technology's *Comments* Vol. 44, December 2006.

Smith-Doerr quoted and her research on gender equity in the biotechnology industry published in her book *Women's Work* referenced in article "The Gender Gap in Biotech", by Gareth Cook in the *Boston Globe* on May 6, 2007 in special Biotech section for the BIO convention.

Television interview on "Neighborhood Network News," live show on Boston local access cable station, June 13, 2007. Discussion with Monti, of Monti, Smith-Doerr and McQuaid report on immigrant entrepreneurs in Massachusetts biotechnology industry.

Smith-Doerr quoted on issues for immigrant entrepreneurs, from presentation at Framingham State College of research report published by Immigrant Learning Center, in article, "Asian Entrepreneurs Need Support," by Cory Hopkins in *Worcester Business Journal*, June 15, 2007.

Listed in *Who's Who in America*, 2007-09.