An Abridged Reading List in the Sociologies of Science and Technology

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This reading list is not comprehensive. It is merely a guide to most of the major works within the sociology of science and the sociology of technology, with an emphasis on the former.

General Overviews

- Bauchspies, Wenda, Jennifer Croissant, and Sal Restivo. 2006. *Science, Technology, and Society: A Sociological Approach*. New York: Blackwell Publishing.
- Ben-David, Joseph. 1975. "Sociology of Science." Annual Review of Sociology 1:203-222.

Biagioli, Mario. 1999. The Science Studies Reader. London: Routledge.

- Bucchi, Massimiano. 2002. Science in Society: An Introduction to Social Studies of Science. London: Routledge.
- Bunge, Mario. 1991. "A Critical Examination of the New Sociology of Science." *Philosophy of the Social Sciences* 21:524-560.
- Camic, Charles, and Neil Gross. 1998. "Contemporary Developments in Sociological Theory: Current Projects and Conditions of Possibility." *Annual Review of Sociology* 24:453-476.
- Collins, Harry M. 1983. "The Sociology of Scientific Knowledge: Studies of Contemporary Science." *Annual Review of Sociology* 9:265-285.
- Collins, Harry M., and Robert Evans. 2002. "The Third Wave of Science Studies: Studies of Expertise and Experience." *Social Studies of Science* 32:235-296.
- Collins, Randall, and Sal Restivo. 1983. "Development, Diversity, and Conflict in the Sociology of Science." *Sociological Quarterly* 24:185-200.
- Erickson, Mark. 2005. *Science, Culture, and Society: Understanding Science in the 21st Century.* Malden: Polity Press.

Fuller, Steve. 2007. New Frontiers in Science and Technology Studies. Polity Press.

- Giere, Ronald. 2006. "What Everyone Should Know About STS." *Social Studies of Science* 36:489-493.
- Hackett, Edward, Olga Amsterdamska, Michael Lynch, and Judy Wajcman. 2007. *The Handbook of Science and Technology Studies*. Third Edition. Cambridge: MIT Press.
- Hess, David. 1997. *Science Studies: An Advanced Introduction*. New York: New York University Press.
- Jasanoff, Sheila, Gerald E. Markle, James C. Petersen, and Trevor Pinch, editors. 1995. *Handbook of Science and Technology Studies*. Thousand Oaks, CA: Sage.
- Kleinman, Daniel Lee, Abby Kinchy, and Jo Handelsman. 2004. *Controversies in Science and Technology*. Volume 1. Madison: University of Wisconsin Press.
- Kleinman, Daniel Lee, Matta Cloud-Hanson, and Jo Handelsman. 2008. *Controversies in Science and Technology*. Volume 2. Madison: University of Wisconsin Press.
- Kline, Stephen J. 2003. "What is Technology?" Pp. 210-212 in *Philosophy of Technology: The Technological Condition*, edited by Robert C. Scharff and Val Dusek. Malden, MA: Blackwell Publishing.
- Knorr-Cetina, Karin D. 1983. "New Developments in Science Studies." *Canadian Journal of Sociology* 8:153-177.
- Knorr-Cetina, Karin D. 2005. "Science, Technology, and Their Implications." Pp. 546-560 in *The Sage Handbook of Sociology*, edited by Craig Calhoun, Chris Rojek, and Bryan Turner. Thousand Oaks: Sage.
- Knorr-Cetina, Karin D. and Michael Mulkay, editors. 1983. *Science Observed: Perspectives in the Social Study of Science*. Oxford: Pergamon.
- Lieberson, Stanley, and Freda B. Lynn. 2002. "Barking Up the Wrong Branch: Scientific Alternatives to the Current Model of Sociological Science." *Annual Review of Sociology* 28:1-19.

- Mulkay, Michael. 1991. Sociology of Science: A Sociological Pilgrimage. Bloomington: Indiana University Press.
- Pickering, Andrew. 1993. "The Mangle of Practice: Agency and Emergence in the Sociology of Science." *American Journal of Sociology* 99: 559-589.
- Pickering, Andrew. 1995. *The Mangle of Practice: Time, Agency, and Science*. Chicago: University of Chicago Press.
- Pickstone, John. 2001. Ways of Knowing: A New History of Science, Technology and Medicine. Chicago: University of Chicago Press.
- Shapin, Steven. 1982. "History of Science and Its Sociological Reconstructions." *History of Science* 20:157-211.
- Shapin, Steven. 1995. "Here and Everywhere: Sociology of Scientific Knowledge." *Annual Review of Sociology* 21:289-321.
- Sismondo, Sergio. 2004. An Introduction to Science and Technology Studies. Malden, MA: Polity Press.
- Swidler, Ann, and Jorge Arditi. 1994. "A New Sociology of Knowledge." *Annual Review of Sociology* 20:305-329.
- Webster, Andrew. 1991. Science, Technology, and Society. New Brunswick, NJ: Rutgers University Press.
- Yearley, Steve. 1994. "Understanding Science from the Perspective of the Sociology of Scientific Knowledge: An Overview." *Public Understanding of Science* 3:245-258.
- Yearley, Steve. 2005. *Making Sense of Science: Understanding the Social Study of Science*. London: Sage.
- Zuckerman, Harriet. 1998. "The Sociology of Science." Pp. 511-574 in *Handbook of Sociology*, edited by Neil J. Smelser. Newbury Park, CA: Sage.

General Works on Science and Technology

- Baird, Davis. 2004. *Thing Knowledge: A Philosophy of Scientific Instruments*. Berkeley: University of California Press.
- Barber, Bernard, and Renee Fox. 1958. "The Case of the Floppy-Eared Rabbits: An Instance of Serendipity Gained and Serendipity Lost." *American Journal of Sociology* 64:126-136.
- Barley Stephen R. and Julian E. Orr, eds. 1997. *Between Craft and Science: Technical Work in U.S. Settings.* Ithaca, N.Y.: IRL Press.
- Barnes, Barry. 1977. Interests and the Growth of Knowledge. London: Routledge.
- Barnes, Barry. 1982. T.S. Kuhn and Social Science. New York: Columbia University Press.
- Barnes, Barry, David Bloor, and John Henry. 1996. *Scientific Knowledge*. University of Chicago Press.
- Barnes, Barry, and Steven Shapin. 1979. *Natural Order: Historical Studies of Scientific Culture*. Beverly Hills: Sage.
- Barry, Andrew. 2001. *Political Machines. Governing a Technological Society*. London: Athlone Press.
- Ben-David, Joseph. 1984. *The Scientist's Role in Society: A Comparative Study*. Chicago: University of Chicago Press.
- Ben-David, Joseph. 1991. Scientific Growth: Essays on Social Organization and the Ethos of Science. Berkeley: University of California Press.

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Beniger, James R. 1986. The Control Revolution. Cambridge: Harvard University Press.

Bloor, David. [1976] 1991. *Knowledge and Social Imagery*. Second Edition. Chicago: University of Chicago Press.

- Bourdieu, Pierre. 1975. "The Specificity of the Scientific Field and the Social Conditions of the Progress of Reason." *Social Science Information* 14:19-47.
- Bourdieu, Pierre. 2004. *Science of Science and Reflexivity*. Chicago: University of Chicago Press.
- Bowker, Geoffrey C. 2005. Memory Practices in the Sciences. Cambridge, MA: MIT Press.
- Bowker, Geoffrey C., and Susan L. Star. 1999. Sorting Things Out: Classification and Its Consequences. Cambridge MA: MIT Press.
- Boyd, William. 2001. "Making Meat: Science, Technology, and American Poultry Production." *Technology and Culture* 42:631-664.
- Brannigan, Augustine. 1981. *The Social Basis of Scientific Discoveries*. Cambridge: Cambridge University Press.
- Bromberg, Joan Lisa. 1982. "TFTR: The Anatomy of a Programme Decision." *Social Studies of Science* 12:559-583.
- Brown, Nik, and Andrew Webster. 2004. *New Medical Technologies and Society: Reordering Life*. Cambridge: Polity.
- Busch, Larry. 2000. *The Eclipse of Morality: Science, State, and Market*. New York: Aldine de Gruyter.
- Callon, Michael. 1995. "Four Models for the Dynamics of Science." Pp. 29-63 in *Handbook of Science and Technology Studies*, edited by Sheila Jasanoff, Gerald E. Markle, James C. Petersen, and Trevor Pinch. Thousand Oaks: Sage.
- Callon, Michael. 2002. "From Science as an Economic Activity to Socioeconomics of Scientific Research: The Dynamics of Emergent and Consolidated Techno-Economic Networks." Pp. 277-317 in Science Bought and Sold: Essays in the Economics of Science, edited by Phillip Mirowski and E.M. Sent. Chicago: University of Chicago Press.
- Callon Michael, John Law and Arie Rip, eds. 1986. *Mapping the Dynamics of Science and Technology*. Houndmills: Macmillan.
- Callon, Michael, and Vololona Rabeharisoa. 2003. "Research 'In the Wild' and the Shaping of New Social Identities." *Technology in Society* 25:193-204.
- Carroll, Patrick. 2006. *Science, Culture, and Modern State Formation*. Berkeley: University of California Press.
- Catton Jr., William R. 1986. "Homo Colossus and the Technological Turn-Around." Sociological Spectrum 6:121-147.
- Clarke, Adele E. 1990. "A Social Worlds Research Adventure." Pp. 15-42 in *Theories of Science in Society*, edited by Susan Cozzens and Thomas F. Gieryn. Bloomington: Indiana University Press.
- Clarke, Adele E. and Joan H. Fujimura, eds. 1992. *The Right Tools for the Job: At Work in Twentieth-Century Life Sciences*. Princeton, NJ: Princeton University Press.
- Clarke, Lee. 2006. *Worst Cases: Terror and Catastrophe in the Popular Imagination*. Chicago: University of Chicago Press.
- Coburn, Jason. 2005. *Street Science: Community Knowledge and Environmental Health Justice*. Cambridge: MIT Press.
- Collins, Harry and Trevor Pinch. 1993. *The Golem: What Everyone Should Know About Science*. Cambridge: Cambridge University Press.

- Collins, Harry and Trevor Pinch. 1998. *The Golem at Large: What You Should Know About Technology*. Cambridge: Canto.
- Cowan, Ruth Schwartz. 1983. More Work for Mother: The Ironies of Household Technology from the Open Hearth to the Microwave. New York: Basic Books.
- Cowan, Ruth Schwartz. 1997. A Social History of American Technology. New York: Oxford University Press.
- Cozzens, Susan E. and Thomas F. Gieryn, eds. 1990. *Theories of Science in Society*. Bloomington: Indiana University Press.
- Cummings, Claire Hope. 2008. Uncertain Peril: Genetic Engineering and the Future of Seeds. Boston: Beacon.
- David, Matthew. 2005. Science in Society. Basingstoke: Palgrave.
- David, Paul A. 1985. "Clio and the Economics of QWERTY." *The American Economic Review* 75:332-337.
- Elam, Mark, and Margareta Bertilsson. 2003. "Consuming, Engaging, and Confronting Science: The Emerging Dimensions of Scientific Citizenship." *European Journal of Social Theory* 6:233-251.
- Ellul, Jacques. 1964. The Technological Society. New York: Vintage.
- Ferre, Frederick. 1988. Philosophy of Technology. New York: Prentice Hall.
- Forsythe, Diana E. 2001. Studying Those Who Study Us. Stanford: Stanford University Press.
- Foucault, Michel. 1980. *Power/Knowledge: Selected Interviews and Other Writings*. New York: Pantheon Books.
- Fujimura, Joan. 1987. "Constructing Doable Problems in Cancer Research." Social Studies of Science 17:257-293.
- Fujimura, Joan. 1988 "The Molecular Biological Bandwagon in Cancer Research: Where Social Worlds Meet." *Social Problems* 35:261-283.
- Fujimura, Joan H. 1996. Crafting Science: A Sociohistory of the Quest for the Genetics of Cancer. Cambridge, MA: Harvard University Press.
- Galison, Peter. 1997. *Image and Logic: A Material Culture of Physics*. Chicago: University of Chicago Press.
- Gendron, Bernard. 1977. Technology and the Human Condition. New York: St. Martin's Press.
- Gilbert, G. Nigel and Michael Mulkay. 1984. *Opening Pandora's Box: A Sociological Analysis of Scientists' Discourse*. Cambridge: Cambridge University Press.
- Gillispie, Charles Coulston. 1960. *The Edge of Objectivity: An Essay in the History of Scientific Ideas*. Princeton: Princeton University Press.
- Golden, Gloria Y. 1994. "On the Way to Jupiter." Social Studies of Science 24:463-511.
- Golinski, Jan. 2005. Making Natural Knowledge. Chicago: University of Chicago Press.
- Hawken, Paul, Amory Lovins, and L. Hunter Lovins. 1999. *Natural Capitalism: Creating the Next Industrial Revolution*. New York: Little, Brown, and Company.
- Henke, Christopher. 2000. "Making a Place for Science." Social Studies of Science 30:483-511.
- Hughes, Thomas P. 1983. Networks of Power. Baltimore: John Hopkins University Press.
- Hughes, Thomas P. 2004. American Genesis: A Century of Invention and Technological Enthusiasm, 1870-1970. Chicago: University of Chicago Press.
- Hughes, Thomas P. 2004. *Human-Built World: How to Think about Technology and Culture*. Chicago: University of Chicago Press.
- Jasanoff, Sheila. 2000. "Reconstructing the Past, Constructing the Present: Can Science Studies and the History of Science Live Happily Ever After?" *Social Studies of Science* 30:621-631.

Kloppenburg, Jack. 2004. First the Seed. Madison: University of Wisconsin Press.

- Knorr-Cetina, Karin D. 1999. *Epistemic Cultures: How the Sciences Make Knowledge*. Cambridge, MA: Harvard University Press.
- Kranzberg, Melvin, and William H. Davenport, editors. 1972. *Technology and Culture*. New York: Meridian.
- Latour, Bruno 1999. *Pandora's Hope: Essays on the Reality of Science Studies*. Cambridge, MA: Harvard University Press.
- Laudan, Larry. 1981. "The Pseudo-Science of Science?" *Philosophy of the Social Sciences* 11:173-198.
- Mackenzie, Donald A. 1990. Inventing Accuracy: An Historical Sociology of Nuclear Missile Guidance. Cambridge, MA: MIT Press.
- Magdoff, Fred, John Bellamy Foster, and Frederick H. Buttel. 2000. *Hungry for Profit: The Agribusiness Threat to Farmers, Food, and the Environment*. New York: Monthly Review Press.
- Marcuse, Herbert. 1964. One-Dimensional Man. Boston: Beacon.
- Martin, Emily. 1998. "Anthropology and the Cultural Study of Science." *Science, Technology, & Human Values* 23:24-44.
- McCarthy, E. Doyle. 1996. *Knowledge as Culture: The New Sociology of Knowledge*. New York: Routledge.
- Mulkay, Michael. 1976. "Norms and Ideology of Science." *Social Science Information* 15:637-656.
- Mulkay, Michael. 1979. Science and the Sociology of Knowledge. London: Allen & Unwin.
- Mulkay, Michael, and G. Nigel Gilbert. 1982. "Accounting for Error: How Scientists Construct Their Social World When They Account for Correct and Incorrect Beliefs." *Sociology* 16:165-183.
- Nelkin, Dorothy, editor. 1984. *Controversy: The Politics of Technical Decisions*. Beverly Hills: Sage.
- Nye, David E. 1999. *Consuming Power: A Social History of American Energies*. Cambridge: MIT Press.
- Nye, David E. 2004. America as Second Creation: Technology and Narratives of New Beginnings. Cambridge: MIT Press.
- Nye, David E. 2007. Technology Matters: Questions to Live With. Cambridge: MIT Press.

Pacey, Arnold. 2000. Technology in World Civilization. Cambridge: MIT Press.

- Perrow, Charles. 1999. *Normal Accidents: Living with High-Risk Technologies*. Princeton: Princeton University Press.
- Pickering, Andrew. 1984. "Against Putting the Phenomena First: The Discovery of the Weak Neutral Current." *Studies in the History and Philosophy of Science* 15:85-117.
- Pollack, Henry N. 2003. *Uncertain Science* . . . *Uncertain World*. Cambridge: Cambridge University Press.
- Price, Derek J. de Solla. 1963. *Little Science, Big Science*. New York, Columbia University Press.
- Price, Derek J. de Solla. 1975. Science since Babylon. New Haven: Yale University Press.

Roos, J. Micah. 2012. "Measuring Science or Religion?: A Measurement Analysis of the National Science Foundation Sponsored Science Literacy Scale 2006-2010." *Public Understanding of Science* DOI: DOI: 10.1177/0963662512464318.

- Rosa, Eugene A. 1998. "Metatheoretical Foundations of Post-Normal Risk." *Journal of Risk Research* 1:15-44.
- Rosa, Eugene A., and Ronald L. Clark, Jr. 1999. "Historical Routes to Technological Gridlock: Nuclear Technology as Prototypical Vehicle." *Research in Social Problems and Public Policy* 7:21-57.
- Sagan, Scott D. 1993. *The Limits of Safety: Organizations, Accidents, and Nuclear Weapons.* Princeton University Press.
- Scharff, Robert C., and Val Dusek, editors. 2003. *Philosophy of Technology: The Technological Condition*. Cambridge: Blackwell Publishing.
- Schivelbusch, Wolfgang. 1986. *The Railroad Journey: The Industrialization of Time and Space in the Nineteenth Century*. Berkeley: University of California Press.
- Scott, Pam, E. Richards and Brian Martin. 1990. "Captives of Controversy: The Myth of the Neutral Social Researcher in Contemporary Scientific Controversies." *Science, Technology,* & Human Values 15:474-494.
- Shapin, Steven, and Simon Schaffer. 1985. *Leviathan and Air Pump: Hobbes, Boyle and Experimental Life*. Princeton, N.J.: Princeton University Press.
- Star, Susan L. 1989. *Regions of the Mind. Brain Research and the Quest for Scientific Certainty*. Stanford: Stanford University Press.
- Smith, Merritt Roe, and Leo Marx. 1994. Does Technology Drive History? Cambridge: MIT.
- Star, Susan L. 1991. "Power, Technology and the Phenomenology of Conventions: On Being Allergic to Onions." Pp. 26-56 in A Sociology of Monsters: Essays on Power, Technology and Domination, edited by John Law. London: Routledge.
- Stehr, Nico, and Volker Meja, editors. 2005. *Society and Knowledge*. New Brunswick, NJ: Transaction.
- Stephan, Paula, and Ronald Ehrenberg. 2007. *Science and the University*. Madison: University of Wisconsin Press.
- Suchman, Lucy A. 1987. *Plans and Situated Action: the Problem of Human-Machine Communication*. Cambridge: Cambridge University Press.
- Teich, Albert H., editor. 1977. Technology and Man's Future. New York: St. Martin's Press.
- Tenner, Edward. 1966. *Why Things Bite Back: Technology and the Revenge of Unintended Consequences*. New York: Vintage.
- Thurk, Jessica, and Gary Alan Fine. 2003. "The Problem of Tools: Technology and the Sharing of Knowledge." *Acta Sociologica* 46:107-117.
- Traweek, Sharon. 1992. "Border Crossings." Pp. 429-465 in *Science as Practice and Culture*, edited by Andrew Pickering. Chicago: University of Chicago Press.
- Truitt, Willis H., and T. W. Graham Solomons, editors. 1974. *Science, Technology, and Freedom*. Boston: Houghton Mifflin Company.
- Vaughan, Diane. 1996. The Challenger Launch Decision. Chicago: University of Chicago Press.
- Volti, Rudi. 1988. Society and Technological Change. New York: St. Martin's Press.
- Walker, J. Samuel. 2004. *Three Mile Island: A Nuclear Crisis in Historical Perspective*. Berkeley: University of California Press.
- Westrum, Ron. 1991. *Technologies and Society: The Shaping of People and Things*. Belmont, CA: Wadsworth.
- Winner, Langdon. 1986. The Whale and the Reactor. Chicago: University of Chicago Press.
- Woodhouse, Edward, David Hess, Steve Breyman, and Brian Martin. 2002. "Science Studies and Activism: Possibilities for Reconstructivist Agendas." *Social Studies of Science* 32:297-319.

Woodward, James, and David Goodstein. 1996. "Conduct, Misconduct, and the Structure of Science." *American Scientist* 84:479-490.

Early Modern Perspectives on Science

- Bloor, David. 1973. "Wittgenstein and Mannheim on the Sociology of Mathematics." *Studies in the History and Philosophy of Science* 4:173-191.
- Feyerabend, Paul. 1975. Against Method. New York: Verso.
- Fleck, Ludwik. [1935]1979. Genesis and Development of a Scientific Fact. Chicago: University of Chicago Press.
- Hanson, N. R. 1961. Patterns of Discovery. Cambridge: Cambridge University Press.
- Kuhn, Thomas. [1962]1970. *The Structure of Scientific Revolutions*. Second Edition. Chicago: University of Chicago Press.
- Kuhn, Thomas S. 1977. *The Essential Tension: Selected Studies in Scientific Tradition and Change*. Chicago: University of Chicago Press.
- Kuhn, Thomas S. 2000. The Road Since Structure. Chicago: University of Chicago Press.
- Mannheim, Karl. [1936]1970. *Ideology and Utopia: An Introduction to the Sociology of Knowledge*. New York: Harcourt, Brace and World.
- Mannheim, Karl. 1952. Essays in the Sociology of Knowledge. London: Routledge.
- Polanyi, Michael. 1958. Personal Knowledge. Chicago: University of Chicago Press.
- Popper, Karl. The Logic of Scientific Discovery. New York: Routledge.
- Thorpe, Charles. 2001. "Science Against Modernism: The Relevance of the Social Theory of Michael Polanyi." *British Journal of Sociology* 52:19-35.
- Weber, Max. 1946. "Science as a Vocation." Pp. 129-156 in *From Max Weber: Essays in Sociology*, translated and edited by H.H. Gerth and C. Wright Mills. New York: Oxford University Press.
- Wittgenstein, Ludwig. 1958. Philosophical Investigations. Oxford: Blackwell.
- Zilsel, Edgar. 1942. "The Sociological Roots of Science." American Journal of Sociology 47:544-562.

Mertonian Sociology of Science

- Chubin, Daryl E. and Edward J. Hackett. 1990. *Peerless Science: Peer Review and U.S. Science Policy*. Albany, NY: State University of New York Press.
- Cole, Jonathan, and Stephen Cole. 1973. Social Stratification in Science. Chicago: University of Chicago Press.
- Cole, Stephen. 2004. "Merton's Contribution to the Sociology of Science." *Social Studies of Science* 34:829-844.
- Cole, Stephen, Jonathan R. Cole, and Gary A. Simon. 1981. "Chance and Consensus in Peer Review." *Science* 214:881-886.
- Crane, Diana 1967. "The Gatekeepers of Science: Some Factors Affecting the Selection of Articles for Scientific Journals." *American Sociologist* 2:195-201.
- Elkana, Yehuda, Joshua Lederberg, Robert K. Merton, Arnold Thackray, and Harriet Zuckerman, eds. 1978. *Toward a Metric of Science: The Advent of Science Indicators*. New York: Wiley.

Langfeldt, Liv. 2001. "The Decision-Making Constraints and Processes of Grant Peer Review, and Their Effects on the Review Outcome." *Social Studies of Science* 31:820-841.

Merton, Robert K. 1938. "Science and the Social Order." Philosophy of Science 5:321-337.

- Merton, Robert K. 1942. "Science and Technology in a Democratic Order." *Journal of Legal and Political Sociology* 1:115-126.
- Merton, Robert K. 1968. "The Matthew Effect in Science." Science 159:56-63.
- Merton, Robert K. 1973. "The Normative Structure of Science." Pp. 267-278 in *The Sociology of Science*, by Robert K. Merton. Chicago: University of Chicago Press.
- Merton, Robert K. 1973. *The Sociology of Science: Theoretical and Empirical Investigations*. Chicago: University of Chicago Press.
- Zuckerman, Harriet. 1977. Scientific Elite. New York: Free Press.

The Strong Programme and Sociology of Scientific Knowledge (SSK)

- Bloor, David. [1976]1991. *Knowledge and Social Imagery*. Second Edition. Chicago: University of Chicago Press.
- Bloor, David. 1981. "The Strengths of the Strong Programme in the Sociology of Knowledge." *Philosophy of the Social Sciences* 11:199-213.
- Collins, Harry M. 1981. "Stages in the Empirical Programme of Relativism." *Social Studies of Science* 11:3-10.
- Collins, Harry M. 1983. "An Empirical Relativist Programme in the Sociology of Scientific Knowledge." Pp. 83-113 in *Science Observed: Perspectives on the Social Study of Science*, edited by Karin Knorr-Cetina and Michael Mulkay. London: Sage.
- Collins, Harry M. 1985. Changing Order. Chicago, IL: University of Chicago Press.
- Collins, Harry M. 1994. "Dissecting Surgery: Forms of Life Depersonalized." Social Studies of Science 24:311-333.
- Collins, Harry M. 1998. "The Meaning of Data: Open and Closed Evidential Cultures in the Search for Gravitational Waves." *American Journal of Sociology* 104:293-338.
- Collins, Harry M. 2001. "Tacit Knowledge, Trust, and the Q of Sapphire." *Social Studies of Science* 31:71-85.
- Collins, Harry M., and Trevor Pinch. 1982. *Frames of Meaning: the Social Construction of Extraordinary Science*. London: Routledge.
- Demeritt, David. 2006. "Science Studies, Climate Change, and the Prospects for Constructivist Critique." *Economy and Society* 35:453-479.
- Knorr-Cetina, Karin D. 1979. "Tinkering toward Success." Theory and Society 8:347-376.
- Knorr-Cetina, Karin D. 1981. The Manufacture of Knowledge: An Essay on the Constructivist Contextual Nature of Science. Oxford: Pergamon.
- Knorr-Cetina, Karin D. 1981. "Time and Context in Practical Action: Underdetermination and Knowledge Use." *Science Communication* 3:143-165.
- Knorr-Cetina, Karin D. 1982. "Scientific Communities or Transepistemic Arenas of Research?" *Social Studies of Science* 12:101-130.
- Knorr-Cetina, Karin D. 2005. "The Fabrication of Facts." Pp. 175-195 in *Society and Knowledge*, edited by Nico Stehr and Volker Meja. New Brunswick, NJ: Transaction.
- Knorr-Cetina, Karin, and Klaus Amann. 1990. "Image Dissection in Natural Scientific Inquiry." *Science, Technology and Human Values* 15: 259-283.

Latour, Bruno. 1983. "Give Me a Laboratory and I Will Raise the World." Pp. 141-170 in Science Observed: Perspectives on the Social Study of Science, edited by Karin D. Knorr-Cetina and Michael Mulkay. London: Sage.

- Latour, Bruno. 1987. Science in Action. Cambridge: Harvard University Press.
- Latour, Bruno. 1988 The Pasteurization of France. Cambridge, MA: Harvard University Press.
- Latour, Bruno. 1993. We Have Never Been Modern. Cambridge, MA: Harvard University Press.
- Latour, Bruno. 2004. "Why Has Critique Run Out of Steam?: From Matters of Fact to Matters of Concern." *Critical Inquiry* 30:225-248.
- Latour, Bruno. 2005. Reassembling the Social. Oxford: Oxford University Press.
- Law, John. 1994. Organizing Modernity. Oxford: Blackwell.
- Law, John, and John Hassard, editors. 1999. *Actor Network Theory and After*. Oxford: Blackwell.
- Law, John, and Mol Annemariev, editors. 2002. *Complexities: Social Studies of Knowledge Practices*. Durham: Duke University Press.
- Law, John, and R. J. Williams. 1982. "Putting Facts Together." Social Studies of Science 12:535-558.
- Lynch, Michael. 1998. "The Discursive Production of Uncertainty: The OJ Simpson 'Dream Team' and the Sociology of Knowledge Machine." *Social Studies of Science* 28:829-868.
- Pickering, Andrew. 1992. "From Science as Knowledge to Science as Practice." Pp. 1-26 in Science as Practice and Culture, edited by Andrew Pickering. Chicago: University of Chicago Press.
- Pickering, Andrew, ed. 1992. *Science as Practice and Culture*. Chicago: University of Chicago Press.
- Pinch, Trevor. 1986. Confronting Nature. Dordrecht, The Netherlands: Reidel.
- Pinch, Trevor. 1992. "Opening Black Boxes: Science, Technology, and Society." Social Studies of Science 22:487-510.
- Pinch, Trevor, and Wiebe Bijker. 1984. "The Social Construction of Facts and Artifacts: Or How the Sociology of Science and the Sociology of Technology Might Benefit Each Other." *Social Studies of Science* 14:399-441.
- Shapin, Steven. 1995. "Here and Everywhere: Sociology of Scientific Knowledge." Annual Review of Sociology 21:289-321.

Laboratory Studies

- Barley, Stephen. 1996. "Technicians in the Workplace: Ethnographic Evidence for Bringing Work into Organizational Studies." *Administrative Science Quarterly* 41:404-441.
- Barley, Stephen, and Beth A. Bechky. 1994. "In the Backrooms of Science." *Work and Occupations* 21:85-126.
- Barley Stephen R. and Julian E. Orr, eds. 1997. *Between Craft and Science: Technical Work in U.S. Settings*. Ithaca, N.Y.: IRL Press.
- Bun, Chan K. and Ko Y. Chung. 2003. "Sciences's Workings and Scientists' Work." *Asian Journal of Social Science* 31:271-285.
- Cambrosio, Alberto, and Peter Keating. 1985. "Studying a Biotechnology Research Centre." *Social Studies of Science* 15:723-737.
- Collins, Harry M. 1974. "The TEA Set: Tacit Knowledge and Scientific Networks." *Science Studies* 4:165-186.

- Conefrey, Theresa. 1997. "Gender, Culture and Authority in a University Life Sciences Laboratory." *Discourse & Society* 8:313-340.
- Delamont, Sara, and Paul Atkinson. 2001. "Doctoring Uncertainty: Mastering Craft Knowledge." *Social Studies of Science* 31:87-107.
- de Laat, Paul B. 1994. "Matrix Management of Projects and Power Struggles: A Case Study of an R&D Laboratory." *Human Relations* 47:1089-1119.
- Doing, Park. 2004. "'Lab Hands' and the 'Scarlet O'." Social Studies of Science 34:299-323.
- Doing, Park. 2008. "Give Me a Laboratory and I Will Raise a Discipline: The Past, Present, and Future Politics of Laboratory Studies in STS." Pp. 279-296 in *The Handbook of Science and Technology Studies*, edited by Edward J. Hackett, Olga Amsterdamska, Michael Lynch, and Judy Wajcman. Third Edition. Cambridge: MIT Press.
- Galison, Peter. 1997. "Three Laboratories." Social Research 64:1127-1155.
- Garfinkel, Harold, Michael E. Lynch, and Eric Livingston. 1981. "The Work of Discovering Science Constructed with Material from the Optically Discovered Pulsar." *Philosophy of the Social Sciences* 11:131-158.
- Goodwin, Charles. 1995. "Seeing in Depth." Social Studies of Science 25:237-274.
- Hacking, Ian. 1983. Representing and Intervening. Cambridge: Cambridge University Press.
- Hacking, Ian. 1992. "The Self-Vindication of the Laboratory Sciences." Pp. 29-64 in *Science as Practice and Culture*, edited by Andrew Pickering. Chicago: University of Chicago Press.
- Hercock, Marion. 2003. "Masters and Servants: The Contrasting Roles of Scientists in Island Management." *Social Studies of Science* 33:117-136.
- Hine, Christine. 2006. "Databases as Scientific Instruments and Their Role in the Ordering of Scientific Work." *Social Studies of Science* 36:269-298.
- Jeffrey, Paul. 2003. "Smoothing the Waters: Observations on the Process of Cross-Disciplinary Research Collaboration." *Social Studies of Science* 33:539-562.
- Kleinman, Daniel Lee. 1998. "Untangling Context: Understanding a University Laboratory in the Commercial World." *Science, Technology, and Human Values* 23:285-314.
- Kleinman, Daniel Lee. 2003. *Impure Cultures: University Biology and World Commerce*. Madison, WI: University of Wisconsin Press.
- Knorr-Cetina, Karin. 1983. "The Ethnographic Study of Scientific Work: Towards a Constructivist Interpretation of Science." Pp. 115-140 in *Science Observed: Perspectives on the Social Study of Science*, edited by Karin Knorr-Cetina and Michael Mulkay. London: Sage.
- Knorr-Cetina, Karin D. 1992. "The Couch, the Cathedral, and the Laboratory." Pp. 113-138 in Science as Practice and Culture, edited by Andrew Pickering. Chicago: University of Chicago Press.
- Knorr-Cetina, Karin. 1995. "Laboratory Studies: The Cultural Approach to the Study of Science." In *Handbook of Science and Technology Studies*, edited by Sheila Jasanoff, Gerald E. Markle, James C. Peterson, and Trevor Pinch. Thousand Oaks, CA: Sage.
- Kohler, Robert E. 2002. *Landscapes and Labscapes: Exploring the Lab-Field Border in Biology*. Chicago: University of Chicago Press.
- Latour, Bruno and Steve Woolgar. 1986. *Laboratory Life: The Construction of Scientific Facts*. Princeton, N.J.: Princeton University Press.
- Lynch, Michael E. 1982. "Technical Work and Critical Inquiry: Investigations in a Scientific Laboratory." *Social Studies of Science* 12:499-533.

- Lynch, Michael. 1985. Art and Artefact in Laboratory Science: A Study of Shop Work and Shop Talk in a Research Laboratory. London: Routledge and Kegan Paul.
- Lynch, Michael. 1988. "Sacrifice and the Transformation of the Animal Body into a Scientific Object: Laboratory Culture and Ritual Practice in the Neurosciences." *Social Studies of Science* 18:265-289.
- Lynch, Michael. 1993. Scientific Practice and Ordinary Action: Ethnomethodological and the Social Studies of Science. Cambridge: Cambridge University Press.
- Lynch, Michael. 2002. "Protocols, Practices, and the Reproduction of Technique in Molecular Biology." *British Journal of Sociology* 53:203-220.
- Lynch, Michael, Eric Livingston, and Harold Garfinkel. 1983. "Temporal Order in Laboratory Work." Pp. 205-238 in *Science Observed: Perspectives on the Social Study of Science*, edited by Karin Knorr-Cetina and Michael Mulkay. London: Sage.
- Lynch, Michael and Steve Woolgar, editors. 1990. *Representation in Scientific Practice*. Cambridge: MIT Press.
- Merz, Martina, and Karin Knorr-Cetina. 1997. "Deconstruction in a 'Thinking' Science: Theoretical Physicists at Work." *Social Studies of Science* 27:73-112.
- O'Rand, Angela M. 1977. "Professional Standing and Peer Consultation Status among Biological Scientists at a Summer Research Laboratory." *Social Forces* 55:921-937.
- Owen-Smith, Jason. 2001. "Managing Laboratory Work through Skepticism." American Sociological Review 66:427-452.
- Phillips, Mary T. 1993. "Savages, Drunks, and Lab Animals." Society & Animals 1:61-81.
- Pickering, Andrew. 1999. Constructing Quarks. Chicago: University of Chicago Press.
- Pinch, Trevor. 1981. "The Sun-Set: The Presentation of Certainty in Scientific Life." *Social Studies of Science* 11:131-158.
- Pinch, Trevor. 1985. "Towards an Analysis of Scientific Observation: The Externality and Evidential Significance of Observation Reports in Physics." *Social Studies of Science* 15:167-187.
- Polanco, Xavier. 1986. "Laboratory Study as an Incubatory of Countersociology." *Contemporary Sociology* 15:542-544.
- Roth, Wolff-Michael. 2005. "Making Classifications (at) Work: Ordering Practices in Science." Social Studies of Science 35:581-621.
- Roth, Wolff-Michael, and G. Michael Bowen. 1999. "Digitizing Lizards: The Topology of 'Vision' in Ecological Fieldwork." *Social Studies of Science* 29:719-764.
- Roth, Wolff-Michael, and G. Michael Bowen. 2001. "Creative Solutions' and 'Fibbing Results': Enculturation in Field Ecology." *Social Studies of Science* 31:533-556.
- Scott, Pam. 1991. "Levers and Counterweights: A Laboratory that Failed to Raise the World." Social Studies of Science 21:7-35.
- Sims, Benjamin. 1999. "Concrete Practices: Testing in an Earthquake-Engineering Laboratory." *Social Studies of Science* 29:483-518.
- Sims, Benjamin. 2005. "Safe Science: Material and Social Order in Laboratory Work." *Social Studies of Science* 35:333-366.
- Slezak, Peter. 1994. "Sociology of Scientific Knowledge and Science Education, Part 2: Laboratory Life Under the Microscope." *Science and Education* 3:329-355.
- Sutton, John R. 1984. "Organizational Autonomy and Professional Norms in Science: A Case Study of the Lawrence Livermore Laboratory." *Social Studies of Science* 14:197-224.

Traweek, Sharon. 1988. *Beamtimes and Lifetimes: The World of High Energy Physicists*. Cambridge, MA: Harvard University Press.

Woolgar, Steve. 1982. "Laboratory Studies: A Comment on the State of the Art." *Social Studies* of Science 12:481-498.

Zenzen, Michael, and Sal Restivo. 1982. "The Mysterious Morphology of Immiscible Liquids: A Study of Scientific Practice." *Social Science Information* 21:447-473.

Scientific Organizations

- Bowker, Geoffrey C. 1994. Science on the Run: Information Management and Industrial Geophysics at Schlumberger, 1920-1940. Cambridge, MA: MIT Press.
- Bozeman, Barry, and Michael Crow. 1990. "The Environments of U.S. Laboratories: Political and Market Influences." *Policy Sciences* 23:25-56.
- Campbell, Robert A. 2003. "Preparing the Next Generation of Scientists." *Social Studies of Science* 33:897-927.
- Cohen, J. E. 1981. "Publication Rate as a Function of Laboratory Size in Three Biomedical Research Institutions." *Scientometrics* 3:467-487.
- Cummings, Jonathon N., and Sara Kiesler. 2005. "Collaborative Research Across Disciplinary and Organizational Boundaries." *Social Studies of Science* 35:703-722.
- Gabler, Jay, and David John Frank. 2005. "The Natural Sciences in the University: Change and Variation Over the 20th Century." *Sociology of Education* 78:183-206.
- Hackett, Edward. 1990. "Science as a Vocation in the 1990s: The Changing Organizational Culture of Academic Science." *The Journal of Higher Education* 61:241-279.
- Lee, Sooho, and Barry Bozeman. 2005. "The Impact of Research Collaboration on Scientific Productivity." *Social Studies of Science* 35:673-702.
- Mirowski, Philip, and Robert Van Horn. 2005. "The Contract Research Organization and the Commercialization of Scientific Research." *Social Studies of Science* 35:503-548.
- Powell, Walter, K. Koput, and Laurel Smith-Doerr. 1996. "Interorganizational Collaboration and the Locus of Innovation: Networks of Learning in Biotechnology." *Administrative Science Quarterly* 41:116-145.
- Reardon, J. 2001. "The Human Genome Diversity Project: A Case Study in Coproduction." Social Studies of Science 31:357-388.
- Rier, David A. 2003. "Work Setting, Publication, and Scientific Responsibility." *Science Communication* 24:420-457.
- Senter, Richard, Jr. 1986. "A Causal Model of Productivity in a Research Facility." *Scientometrics* 10:307-328.
- Smith, Clagett C. 1970. "Consultation and Decision Processes in a Research and Development Laboratory." *Administrative Science Quarterly* 15:203-214.
- Smith-Doerr, Laurel. 2004. "Flexibility and Fairness: Effects of the Network Form of Organization on Gender Equity in Life Sciences Careers." *Sociological Perspectives* 47:25-54.
- Smith-Doerr, Laurel. 2005. "Institutionalizing the Network Form." *Sociological Forum* 20:271-299.
- Storer, Norman William. 1980. Science and Scientists in an Agricultural Research Organization. New York: Arno Press.

Sutton, John R. 1984. "Organizational Autonomy and Professional Norms in Science: A Case Study of the Lawrence Livermore Laboratory." *Social Studies of Science* 14:197-224.

van Keuren, David K. 2001. "Cold War Science in Black and White: US Intelligence Gathering and Its Scientific Cover at the Naval Research Laboratory, 1948-62." *Social Studies of Science* 31:207-229.

Boundaries of Science/Boundary-Work in Science

- Allen, Barbara. 2004. "Shifting Boundary Work: Issues and Tensions in Environmental Health Science in the Case of Grand Bois, Louisiana." *Science as Culture* 13:429-448.
- Amsterdamska, Olga. 2005. "Demarcating Epidemiology." Science, Technology & Human Values 30:17-51.
- Balmer, Brian. 2004. "How Does an Accident Become an Experiment?: Secret Science and the Exposure of the Public to Biological Warfare Agents." *Science as Culture* 13:197-228.
- Balshem, Martha. 1991. "Cancer, Control, and Causality: Talking about Cancer in a Working-Class Community." *American Ethnologist* 18:152-172.
- Gieryn, Thomas. 1983. "Boundary-Work and the Demarcation of Science from Non-Science: Strains and Interests in Professional Ideologies of Scientists." *American Sociological Review* 48:781-795.
- Gieryn, Thomas. 1995. "Boundaries of Science." Pp. 393-443 in *Handbook of Science and Technology Studies*, edited by Sheila Jasanoff, Gerald E. Markle, James C. Peterson, and Trevor Pinch. Thousand Oaks, CA: Sage.
- Gieryn, Thomas. 1999. *Cultural Boundaries of Science: Credibility on the Line*. Chicago: University of Chicago Press.
- Gieryn, Thomas. 2006. "City as Truth-Spot: Laboratories and Field-Sites in Urban Studies." *Social Studies of Science* 36:5-38.
- Mellor, Felicity. 2003. "Between Fact and Fiction: Demarcating Science from Non-Science in Popular Physics Books." *Social Studies of Science* 33:509-538.
- Shrum, Wesley, Ivan Chompalov, and Joel Genuth. 2001. "Trust, Conflict, and Performance in Scientific Collaborations." *Social Studies of Science* 31:681-730.
- Steel, Brent S., Denise Lach, and Vijay A. Satyal. 2006. "Ideology and Scientific Credibility: Environmental Policy in the American Pacific Northwest." *Public Understanding of Science* 15:481-495.
- Watson-Verran, Helen and David Turnbull. 1995. "Science and Other Indigenous Knowledge Systems." In *Handbook of Science and Technology Studies*, edited by Sheila Jasanoff, Gerald E. Markle, James C. Petersen and Trevor Pinch. London: Sage.
- Zehr, Stephen C. 1994. "The Centrality of Scientists and the Translation of Interests in the U.S. Acid Rain Controversy." *Canadian Review of Sociology and Anthropology* 31:325-353.

Communicating and Representing Science

Amann, Klaus and Karin D. Knorr-Cetina. 1990. "Fixation of (Visual) Evidence." Pp. 85-121 in *Representation in Scientific Practice*, edited by Michael Lynch and Steve Woolgar. Cambridge, MA: MIT Press.

- Bastide, Francois. 1990. "The Iconography of Scientific Texts: Principles of Analysis." Pp. 187-229 in *Representation in Scientific Practice*, edited by Michael Lynch and Steve Woolgar. Cambridge, MA: MIT Press.
- Bazerman, Charles. 1988. Shaping Written Knowledge: The Genre and Activity of the Experimental Article in Science. Madison, WI: University of Wisconsin Press.
- Cambrosio, Alberto, David Jacobi, and Peter Keating. 1993. "Ehrlich's 'Beautiful Pictures' and the Controversial Beginnings of Immunological Imagery." *Isis* 84:662-699.
- Daston, Lorraine, and Peter Galison. 1992. "The Image of Objectivity." *Representations* 40:81-128.
- Dumit, Joseph. 2004. *Picturing Personhood: Brain Scans and Biomedical Identity*. Princeton: Princeton University Press.
- Gross, Alan G., Joseph E. Harmon and Michael Reidy. 2002. *Communicating Science: The Scientific Article from the 17th Century to the Present*. New York: Oxford University Press.
- Hacking, Ian. 1983. Representing and Intervening. Cambridge: Cambridge University Press.
- Hilgartner, Stephen. 2000. Science on Stage. Stanford: Stanford University Press.
- Irwin, Alan, and Brian Wynne, editors. 1996. *Misunderstanding Science?: The Public Reconstruction of Science and Technology*. Cambridge: Cambridge University Press.
- Johns, Adrian. 1998. *The Nature of the Book: Print and Knowledge in the Making*. Chicago: University of Chicago Press.
- Jones, Caroline A., and Peter Galison, editors. 1998. *Picturing Science Producing Art*. New York: Routledge.
- Joyce, Kelly. 2005. "Appealing Images: Magnetic Resonance Imaging and the Production of Authoritative Knowledge." *Social Studies of Science* 35:437-462.
- Kaiser, David. 2005. Drawing Things Apart: The Dispersion of Feynman Diagrams in Postwar Physics. Chicago: University of Chicago Press.
- Latour, Bruno. 1986. "Visualization and Cognition: Thinking with Eyes and Hands." *Knowledge* & *Society* 6:1-40.
- Latour, Bruno. 1990. "Drawing Things Together." Pp. 19-68 in *Representation in Scientific Practice*, edited by Michael Lynch and Steve Woolgar. Cambridge, MA: MIT Press.
- Leydesdorff, Loet. 2007. "Scientific Communication and Cognitive Codification: Social Systems Theory and the Sociology of Scientific Knowledge." *European Journal of Social Theory* 10:375-388.
- Locke, Simon. 2001. "Sociology and the Public Understanding of Science: From Rationalization to Rhetoric." *British Journal of Sociology* 52:1-18.
- Lynch, Michael. 1985. "Discipline and the Material Form of Images: An Analysis of Scientific Visibility." *Social Studies of Science* 15: 37-66.
- Lynch, Michael. 1988. "The Externalized Retina: Selection and Mathematization in the Visual Documentation of Objects in the Life Sciences." *Human Studies* 11:201-234.
- Lynch, Michael. 1991. "Science in the Age of Mechanical Reproduction: Moral and Epistemic Relations Between Diagrams and Photographs." *Biology and Philosophy* 6: 205-226.
- McKinlay, Andrew, and Jonathan Potter. 1987. "Model Discourses: Interpretative Repertoires in Scientists' Conference Talk." *Social Studies of Science* 17:443-463.
- Myers, Greg. 1990. Writing Biology: Texts in the Social Construction of Scientific Knowledge. Madison, WI: University of Wisconsin Press.
- Myers, Greg. 1991. "Politeness and Certainty: The Language of Collaboration in an AI Project." Social Studies of Science 21:37-73.

- Nelkin, Dorothy. 1977. "Scientists and Professional Responsibility: The Experience of American Ecologists." *Social Studies of Science* 7:75-95.
- Pauwels, Luc, editor. 2006. Visual Cultures of Science: Rethinking Representational Practices in Knowledge Building and Science Communication. Hanover, NH: Dartmouth College Press.
- Rudwick, Martin J.S. 1976. "The Emergence of a Visual Language for Geological Science: 1769-1840." *History of Science* 14:149-195.
- Star, Susan L. 1983. "Simplification in Scientific Work: An Example from Neuroscience Research." *Social Studies of Science* 13:205-228.
- Star, Susan L., and J. R.Griesemer. 1989. "Institutional Ecology, 'Translations,' and Boundary Objects: Amateurs and Professionals in Berkeley's Museum of Vertebrate Zoology." Social Studies of Science 19:387-420.
- Zehr, Stephen C. 1994. "Accounting for the Ozone Hole: Scientific Representations of an Anomaly and Prior Incorrect Claims in Public Settings." *The Sociological Quarterly* 35:603-619.
- Zehr, Stephen C. 1994. "The Centrality of Scientists and the Translation of Interests in the U.S. Acid Rain Controversy." *Canadian Review of Sociology and Anthropology* 31:325-353.
- Zehr, Stephen C. 2000. "Public Representations of Scientific Uncertainty About Global Climate Change." *Public Understanding of Science* 9:85-103.

Public Understanding of Science

- Allum, Nick, Patrick Sturgis, Dimitra Tabourazi and Ian Brunton-Smith. 2008. "Science Knowledge and Attitudes across Cultures: A Meta-Analysis." *Public Understanding of Science* 17:35-54.
- Bauer, Martin W. 2009. "The Evolution of Public Understanding of Science—Discourse and Comparative Evidence." *Science Technology & Society* 14(2):221-240.
- Bauer, Martin W, Nick Allum, and Steve Miller. 2007. "What Can We Learn from 25 Years of PUS Survey Research? Liberating and Expanding the Agenda." *Public Understanding of Science* 16:79-85.
- Bauer, Martin W, Kristina Petkova, Pepka Boyadjieva. 2000. "Public Knowledge of and Attitudes to Science: Alternative Measures that May End the 'Science War'." *Science, Technology and Human Values* 25(1):30-51.
- Bhaduri, Sumit. 2003. "Science, Society, and Technology: Three Cultures and Multiple Visions." *Journal of Science Education and Technology* 12(3):303-308.
- Callon, Michel. 1999. "The Role of Lay People in the Production and Dissemination of Scientific Knowledge." *Science, Technology, & Society* 4(1):81-94.
- Critchley, Christine R. 2008. "Public Opinion and Trust in Scientists: The Role of the Research Context, and the Perceived Motivation of Stem Cell Researchers." *Public Understanding of Science* 17:309-327.
- Gauchat, Gordon. 2010. "The Cultural Authority of Science: Public Trust and Acceptance of Organized Science." *Public Understanding of Science* 20:1-20.
- Lach, Denise and Stephanie Sanford. 2010. "Public Understanding of Science and Technology Embedded in Complex Institutional Settings." *Public Understanding of Science* 19(2):130-146.
- Lewenstein, Bruce V. 1992. "The Meaning of 'Public Understanding of Science' in the United States after World War II." *Public Understanding of Science* 1:45-68.

Locke, Simon. 2002. "The Public Understanding of Science—A Rhetorical Invention." *Public Understanding of Science* 27:87-111.

Locke, Simon. 2001. "Sociology and the Public Understanding of Science: From rationalization to Rhetoric." *British Journal of Sociology* 52(1):1-18.

Maranta, Alessandro, Michael Guggenheim, Priska Gisler, and Christian Pohl. 2003. "The Reality of Experts and the Imagined Lay Person." *Acta Sociologica* 46(2):150.165.

Michael, Mike. 1992. "Lay Discourses of Science: Science-in-General, Science-in-Particular, and Self." *Science, Technology and Human Values* 17(3):313-333.

Miller, Jon D. 2004. "Public Understanding of, and Attitudes Toward, Scientific Research: What We Know and What We Need to Know." *Public Understanding of Science* 13:273-294.

Pardo, Rafael and Felix Calvo. 2004. "The Cognitive Dimension of Public Perceptions of Science: Methodological Issues." *Public Understanding of Science* 13:203-227.

- Powell, Maria C and Mathilde Colin. 2008. "Meaningful Citizen Engagement in Science and Technology, What Would it Really Take?" *Science Communication* 30(1):126.-136.
- Solomon, Joan. 1993. "Reception and Rejection of Scientific Knowledge: Choice, Style and Home Culture." *Public Understanding of Science* 2:111-121.
- Sturgis, Patrick and Nick Allum. 2004. "Science in Society: Re-evaluating the Deficit Model of Attitudes." *Public Understanding of Science* 13:55-74.
- Wynne, Brian. 1992. "Misunderstood Understanding: Social Identities and Public Uptake of Science." *Public Understanding of Science* 1:281-304.
- Wynne, Brian. 1993. "Public Uptake of Science: A Case for Institutional Reflexivity." *Public Understanding of Science* 2:321-337.
- Yearley, Steven. 1994. "Understanding Science from the Perspective of the Sociology of Scientific Knowledge: An Overview." *Public Understanding of Science* 3:245-258.

Feminism, Gender, and Science

Alper, Joe. 1993. "The Pipeline is Leaking Women all the Way Along." *Science* 260:409-411. Barres, Ben A. 2006. "Does Gender Matter?" *Nature* 442:133-136.

- Blickenstaff, Jacob Clark. 2005. "Women and Science Careers: Leaky Pipeline or Gender Filter?" *Gender and Education* 17:369-386.
- Budden, Amber E., Tom Tregenza, Lonnie W. Aarssen, Julia Koricheva, Roosa Leimu, and Christopher J. Lortie. 2008. "Double-Blind Review Favours Increased Representation of Female Authors." *TRENDS in Ecology and Evolution* 23:4-6.
- Carnes, Molly, Stacie Geller, Eve Fine, Jennifer Sheridan, and Jo Handelsman. 2005. "NIH Director's Pioneer Awards: Could the Selection Process Be Biased against Women?" *Journal of Women's Health* 14(8):684-691.
- Ceci, Stephen, and Wendy M. Williams. 2009. "Should Scientists Study Race and IQ?: Yes, The Scientific Truth Must Be Pursued." *Nature* 457:788-789.
- Committee on Science, Engineering, and Public Policy (COSEPUP). 2007. *Beyond Bias and Barriers: Fulfilling the Potential of Women in Academic Science and Engineering.* Washington, D.C.: National Academy Press.
- Conefrey, Theresa. 1997. "Gender, Culture and Authority in a University Life Sciences Laboratory." *Discourse & Society* 8:313-340.

- Correll, Shelley. 2004. "Constraints into Preferences: Gender, Status, and Emerging Career Aspirations." *American Sociological Review* 69:93-113.
- Delamont, Sara, and Paul Atkinson. 2001. "Doctoring Uncertainty: Mastering Craft Knowledge." *Social Studies of Science* 31:87-107.
- Dennis, Rutledge M. 1995. "Social Darwinism, Scientific Racism, and the Metaphysics of Race." *The Journal of Negro Education* 64(3):243-252.
- England, Paula, Paul Allison, Su Li, Noah Mark, Jennifer Thompson, Michelle J. Budig, and Han Sun. 2007. "Why Are Some Academic Fields Tipping Toward Female?: The Sex Composition of U.S. Fields of Doctoral Degree Receipt, 1971-2002." Sociology of Education 80:23-42.
- Fausto-Sterling, Anne. 2002. *Myths of Gender: Biological Theories about Women and Men*. New York: Basic Books.
- Finson, Kevin D. 2002. "Drawing a Scientist: What We Do and Do Not Know After Fifty Years of Drawings." *School Science and Mathematics* 102:335-345.
- Fox, Mary Frank. 2001. "Women, Science, and Academia: Graduate Education and Careers." *Gender & Society* 15:654-666.
- Fox, Mary Frank. 2010. "Women and Men Faculty in Academic Science and Engineering: Social-Organizational Indicators and Implications." *American Behavioral Scientist* 53(7):997-1012.
- Fox, Mary Frank, and Paula E. Stephan. 2001. "Careers of Young Scientists: Preferences, Prospects, and Realities by Gender and Field." *Social Studies of Science* 31:109-122.
- Handelsman, Jo. 2007. "Diversity." Pp. 65-82 in *Scientific Teaching*, edited by Jo Handelsman, Sarah Miller, and Christine Pfund. New York: W.H. Freeman.
- Haraway, Donna. 1988. "Situated Knowledges: The Science Question in Feminism and the Privilege of Partial Perspective." *Feminist Studies* 14:575-599.
- Haraway, Donna. 1989. Primate Visions: Gender, Race and Nature in the World of Modern Science. London: Verso.
- Haraway, Donna. 1997. *Modest_Witness@Second_Millennium.FemaleMan*©_*Meets_Onco Mouse*TM. London: Routledge.
- Harding, Sandra. 1993. *The Racial Economy of Science: Toward a Democratic Future*. Bloomington: University of Indiana Press.
- Harding, Sandra. 1991. Whose Science? Whose Knowledge? Ithaca: Cornell University Press.

Harding, Sandra. 1998. Is Science Multicultural? Bloomington: Indiana University Press.

- Jansen, Sue Curry. 1990. "Is Science A Man?: New Feminist Epistemologies and Reconstructions of Knowledge." *Theory and Society* 19:235-246.
- Jones, M. Gail, Ann Howe, and Melissa J. Rua. 2000. "Gender Differences in Students' Experiences, Interests, and Attitudes toward Science and Scientists." *Science Education* 84(2):180-192.
- Keller, Evelyn Fox. 1985. *Reflections on Gender and Science*. New Haven: Yale University Press.
- Keller, Evelyn Fox. 1988. "Feminist Perspectives on Science Studies. *Science, Technology, & Human Values* 13:235-249.
- LaFollette, Marcel C. 1988. "Eyes on the Stars: Images of Women Scientists in Popular Magazines." *Science, Technology, & Human Values* 13: 262-275.
- Lederman, Muriel, and Ingrid Bartch, editors. 2000. *The Gender and Science Reader*. London: Routledge.

- Long, J. Scott, and Mary Frank Fox. 1995. "Scientific Careers: Universalism and Particularism." Annual Review of Sociology 21:45-71.
- Miller, Patricia H., Jennifer Blessing, and Stephanie Schwartz. 2006. "Gender Differences in High-School Students' Views about Science." *International Journal of Science Education* 28:363-381.
- Oudshoorn, Nelly. 1994. *Beyond the Natural Body: An Archaeology of Sex Hormones*. New York: Routledge.
- Oudshoorn, Nelly. 2003. *The Male Pill: A Biography of a Technology in the Making*. Durham, NC: Duke University Press.
- Restivo, Sal. 1988. "Introduction to Keller's Keynote Address." *Science, Technology, & Human Values* 13:232-234.
- Rip, Arie. 1988. "Keller on Science Studies, or Reflexivity Revisited." *Science, Technology, & Human Values* 13:254-261.
- Rose, Steven. 2009. "Should Scientists Study Race and IQ?: No, Science and Society Do Not benefit." *Nature* 457:786-788.

Schiebinger, Londa. 1999. *Has Feminism Changed Science*? Cambridge: Harvard University Press.

- Schiebinger, Londa. 2006. *Nature's Body: Gender in the Making of Modern Science*. New Brunswick: Rutgers University Press.
- Smith, Dorothy. 1990. *The Conceptual Practices of Power: A Feminist Sociology of Knowledge*. Boston: Northeastern University Press.
- Smith-Doerr, Laurel. 2004. "Flexibility and Fairness: Effects of the Network Form of Organization on Gender Equity in Life Sciences Careers." *Sociological Perspectives* 47:25-54.
- Sismondo, Sergio. 1995. "The Scientific Domains of Feminist Standpoints." *Perspectives on Science* 3:49-65.
- Stake, Jayne E., and Shannon D. Nickens. 2005. "Adolescent Girls' and Boys' Science Peer Relationships and Perceptions of the Possible Self as Scientist." *Sex Roles* 52:1-11.
- Steinpreis, Rhea F., Katie A. Anders, and Dawn Rizke. 1999. "The Impact of Gender on the Review of the Curricula Vitae of Job Applicants and Tenure Candidates: A National Empirical Study." Sex Roles 41:509-528.
- Tindall, Tiffany, and Burnette Hamil. 2004. "Gender Disparity in Science Education: The Causes, Consequences, and Solutions." *Education* 125:282-295.
- Travis, John. 1993. "Making Room for Women in the Culture of Science." Science 260:412-415.
- Traweek, Sharon. 1988. *Beamtimes and Lifetimes: The World of High Energy Physicists*. Cambridge, MA: Harvard University Press.
- Traweek, Sharon. 1988. "'Feminist Perspectives on Science Studies': Commentary." Science, Technology, & Human Values 13:250-253.
- Treisman, Uri. 1992. "Studying Students Studying Calculus: A Look at the Lives of Minority Mathematics Students in College." *The College Mathematics Journal* 23:362-372.
- U.S. National Academy of Sciences, Committee on Science, Engineering, and Public Policy (COSEPUP). 2007. *Beyond Bias and Barriers: Fulfilling the Potential of Women in Academic Science and Engineering*. Washington, D.C.: National Academy Press.
- Wajcman, Judy. 1995. "Feminist Theories of Technology." Pp. 189-204 in *Handbook of Science and Technology Studies*, edited by Sheila Jasanoff, Gerald E. Markle, James C. Peterson, and Trevor Pinch. Thousand Oaks, CA: Sage.

Wajcman, Judy. 2000. "Reflections on Gender and Technology Studies: In What State is the Art?" *Social Studies of Science* 30:447-464.

Wenneras, Christine, and Agnes Wold. 1997. "Nepotism and Sexism in Peer-Review." *Nature* 387:341-343.

Widnall, Sheila E. 1988. "AAAS Presidential Lecture: Voices From the Pipeline." *Science* 241:1740-1745.

Non-Western, Postcolonial, and Global Technoscience

Adams, Vincanne. 2002. "Randomized Controlled Crime: Postcolonial Sciences in Alternative Medicine Research." *Social Studies of Science* 32:659-690.

Anderson, Warwick. 2002. "Introduction: Special Issue on Postcolonial Technoscience." *Social Studies of Science* 32:643-658.

Arvanitis, Rigas, and Yvon Chatelin. 1988. "National Scientific Strategies in Tropical Soil Sciences." *Social Studies of Science* 18:113-146.

Baber, Zaheer. 2001. "Colonizing Nature: Scientific Knowledge, Colonial Power, and the Incorporation of India into the Modern World-System." *British Journal of Sociology* 52:37-58.

Carney, Judith. 1996. "Landscapes of Technology Transfer: Rice Cultivation and African Continuities." *Technology and Culture* 37:5-35.

Cueto, Marcos. 1990. "The Rockefeller Foundation's Medical Policy and Scientific Research in Latin America: The Case of Physiology." *Social Studies of Science* 20:229-254.

Cummings, Claire Hope. 2008. Uncertain Peril: Genetic Engineering and the Future of Seeds. Boston: Beacon.

Harding, Sandra. 1993. *The Racial Economy of Science: Toward a Democratic Future*. Bloomington: University of Indiana Press.

Hecht, Gabrielle. 2002. "Rupture-Talk in the Nuclear Age: Conjugating Colonial Power in Africa." *Social Studies of Science* 32:691-727.

King, Nicolas B. 2002. "Security, Disease, Commerce: Ideologies of Postcolonial Global Health." *Social Studies of Science* 32:763-789.

Petryna, Adriana. 2005. "Ethical Variability: Drug Development and Globalizing Clinical Trials." *American Ethnologist* 32:183-197.

Pfaffenberger, Bryan. 1990. "The Harsh Faces of Hydraulics: Technology and Society in Sri Lanka's Colonization Schemes." *Technology and Culture* 31:361-397.

Santesmases, Maria Jesus, and Emilio Munoz. 1997. "Scientific Organizations in Spain (1950-1970): Social Isolation and International Legitimation of Biochemists and Molecular Biologists on the Periphery." *Social Studies of Science* 27:187-219.

Vehlo, Lea, and Osvaldo Pessoa, Jr. 1998. "The Decision-Making Process in the Construction of the Synchrotron Light National Laboratory in Brazil." *Social Studies of Science* 28:195-219.

Politics and Policy and Technoscience

Andrews, Lori, Jordan Paradise, Timothy Holbrook, and Danielle Bochneak. 2006. "When Patents Threaten Science." *Science* 314:1395-1396.

Beniger, James R. 1986. *The Control Revolution*. Cambridge: Harvard University Press. Blume, Stuart. 1974. *Toward a Political Sociology of Science*. New York: Free Press.

Dickson, David. 1988. The New Politics of Science. Chicago: University of Chicago Press.

- Eglash, Ron, Jennifer Croissant, Giovana Di Chiro, and Rayvon Fouche, editors. 2004. *Appropriating Technology: Vernacular Science and Social Power*. Minneapolis: University of Minnesota Press.
- Frickel, Scott. 2004. Chemical Consequences: Environmental Mutagens, Scientist Activism, and the Rise of Genetic Toxicology. New Brunswick, NJ: Rutgers University Press.
- Frickel, Scott. 2004. "Just Science?: Organizing Scientist Activism in the U.S. Environmental Justice Movement." *Science as Culture* 13: 449-471.
- Frickel, Scott, and Kelly Moore. 2006. "Prospects and Challenges for a New Political Sociology of Science." Pages 3-34 in *The New Political Sociology of Science*, edited by Scott Frickel and Kelly Moore. Madison, WI: University of Wisconsin Press.
- Frickel, Scott, and Kelly Moore, eds. 2006. *The New Political Sociology of Science*. University of Wisconsin Press.
- Frickel, Scott, and Neil Gross. 2005. "A General Theory of Scientific/Intellectual Movements." *American Sociological Review* 70: 204-232.
- Greenberg, Daniel S. 1999. The Politics of Pure Science. Chicago: University of Chicago Press.
- Greenberg, Daniel S. 2007. Science for Sale. Chicago: University of Chicago Press.
- Guston, David, and Daniel Sarewitz. 2006. *Shaping Science and Technology Policy*. Madison: University of Wisconsin Press.
- Hess, David. 2004. "Organic Food and Agriculture in the US: Object Conflicts in a Health-Environmental Social Movement." *Science as Culture* 13:493-514.
- Jasanoff, Sheila. 1987. "Contested Boundaries in Policy-Relevant Science." Social Studies of Science 17:195-230.
- Jasanoff, Sheila. 1995. *Science at the Bar: Law, Science and Technology in America*. Cambridge: Harvard University Press.
- Jasanoff, Sheila. 1996. "Beyond Epistemology: Relativism and Engagement in the Politics of Science." *Social Studies of Science* 26:393-418.
- Jasanoff, Sheila. 1998. The Fifth Branch. Cambridge: Harvard University Press.
- Jasanoff, Sheila, editor. 2004. *States of Knowledge: The Co-Production of Science and Social Order*. London: Routledge.
- Kinchy, Abby J., and Daniel Lee Kleinman. 2003. "Organizing Credibility: Discursive and Organizational Orthodoxy on the Borders of Ecology and Politics." *Social Studies of Science* 33:869-896.
- Kleinman, Daniel. 1995. *Politics on the Endless Frontier: Postwar Research Policy in the United States*. Durham, NC: Duke University Press.
- Kleinman, Daniel Lee, and Steven P. Vallas. 2001. "Science, Capitalism, and the Rise of the 'Knowledge Worker': The Changing Structure of Knowledge Production in the United States." *Theory and Society* 30:451-492.
- Martin, Brian. 1992. "Scientific Fraud and the Power Structure of Science." *Prometheus* 10:83-98.
- McCright, Aaron M. 2006. "Dealing With Climate Change Contrarians." Pp. 200-212 in *Creating a Climate for Change*, edited by Susanne Moser and Lisa Dilling. New York: Cambridge University Press.
- McCright, Aaron M., and Riley E. Dunlap. 2003. "Defeating Kyoto: The Conservative Movement's Impact on U.S. Climate Change Policy." *Social Problems* 50:348-373.
- Michaels, David. 2006. "Manufactured Uncertainty: Protecting Public Health in the Age of

Contested Science and Product Defense." *Annals of the New York Academy of Sciences* 1076:149-162.

- Michaels, David, and Celeste Monforton. 2005. "Manufacturing Uncertainty: Contested Science and the Protection of the Public's Health and Environment." *American Journal of Public Health* 95:S39-S48.
- Moore, Kelly. 2007. Disrupting Science: Social Movements, American Scientists, and the Politics of the Military, 1945-1975. Princeton, NJ: Princeton University Press.
- Mulkay, Michael. 1997. The Embryo Research Debate: Science and the Politics of Reproduction. New York: Cambridge University Press.
- Mumford, Lewis. 1934. Technics and Civilization. New York: Harcourt and Brace.
- Mumford, Lewis. 1970. *The Pentagon of Power: The Myth of the Machine, Volume Two*. New York: Harcourt, Brace, Jovanovich.
- Pielke, Roger. 2007. The Honest Broker. Cambridge: Cambridge University Press.

Rose, Nicholas. 2001. "The Politics of Life Itself." Theory, Culture, and Society 18:1-30.

- Schurman, Rachel A., and William Munro. 2004. "Ideas, Thinkers, and Social Networks: The Process of Grievance Construction in the Anti-Genetic Engineering Movement." *Theory and Society* 35:1-38.
- Shapin, Steven. 1979. "The Politics of Observation: Cerebral Anatomy and Social Interests in the Edinburgh Phrenology Disputes." Pp. 139-178 in On the Margins of Science: The Social Construction of Rejected Knowledge, edited by Roy Wallis. Keele: University of Keele.
- Star, Susan L., editor. 1995. *Ecologies of Knowledge: Work and Politics in Science and Technology*. State University of New York Press.
- Steel, Brent S., Denise Lach, and Vijay A. Satyal. 2006. "Ideology and Scientific Credibility: Environmental Policy in the American Pacific Northwest." *Public Understanding of Science* 15:481-495.
- Winner, Langdon. 1986. "Do Artifacts Have Politics?" Pp. 19-39 in *The Whale and the Reactor*, by Langdon Winner. Chicago: University of Chicago.
- Winner, Langdon. 1993. "Upon Opening the Black Box and Finding it Empty: Social Constructivism and the Philosophy of Technology." *Science, Technology, & Human Values* 18:362-378.
- Woodhouse, Edward, David Hess, Steve Breyman, and Brian Martin. 2002. "Science Studies and Activism: Possibilities for Reconstructivist Agendas." *Social Studies of Science* 32:297-319.

Social Construction of Technology

- Bijker, Wiebe E. 1993. "Do Not Despair: There is Life After Constructivism." *Science, Technology, & Human Values* 18:113-138.
- Bijker, Wiebe E. 1999. *Of Bicycles, Bakelites, and Bulbs: Toward a Theory of Sociotechnical Change*. Cambridge: MIT Press.
- Bijker, Wiebe. 2007. "Dikes and Dams, Thick with Politics." Isis 98:109-123.
- Bijker, Wiebe E., and John Law. 1992. *Shaping Technology/Building Society: Studies in Sociotechnical Change*. Cambridge: MIT Press.
- Bijker, Wiebe, Thomas Hughes, and Trevor Pinch. 1987. *The Social Construction of Technological Systems*. Cambridge: MIT Press.

- Callon Michel. 1986. "The Sociology of an Actor-Network: The Case of the Electric Vehicle." Pp. 19-34 in *Mapping the Dynamics of Science and Technology*, edited by Michel Callon, John Law, and Arie. Rip. Houndmills: Macmillan.
- Kline, Ronald and Trevor Pinch. 1996. "Users as Agents of Technological Change: The Social Construction of the Automobile in the Rural United States." *Technology and Culture* 37:763-795.
- Latour, Bruno. 1988. "Mixing Humans and Non-humans Together: The Sociology of a Door Closer." *Social Problems* 35:298-310.
- MacKenzie D. and Judy. Wajcman, editors. 1999. *The Social Shaping of Technology*. Second Edition. Milton Keynes: Open University Press.