

References

Note: Unlike most bibliographies, this one is arranged as a set of references by chapter.

Introduction:

Adler, Mortimer, ed. 1958 and 1961. *The Idea of Freedom*. 2 vols. San Francisco, CA: Institute for Philosophical Research, and New York, NY: Doubleday.

Adler, Mortimer, et al. 1952. *The Great Books of the Western World; volumes 2 and 3, The Great Ideas of the Western World*. Chicago, IL: Encyclopaedia Britannica.

Collins, Randall. 1998. *The Sociology of Philosophies: A Global Theory of Intellectual Change*. Cambridge, MA: Harvard University Press.

Durbin, Paul T. 1988. *Dictionary of Concepts in the Philosophy of Science*. Westport, CT: Greenwood Press.

Durbin, Paul T., ed. 1990. *Philosophy and Technology, volume 7: Broad and Narrow Interpretations of Philosophy of Technology*. Dordrecht, Netherlands: Kluwer.

Higgs, Eric; Andrew Light; and David Strong, eds. 2000. *Technology and the Good Life?* Chicago, IL: University of Chicago Press.

Kuhn, Thomas S. 1962. *The Structure of Scientific Revolutions*. Chicago, IL: University of Chicago Press.

McInnis, Raymond G. 2001. *Discourse Synthesis: Studies in Historical and Contemporary Social Epistemology*. Westport, CT: Praeger.

Mitcham, Carl. 1994. *Thinking through Technology: The Path between Engineering and Philosophy*. Chicago, IL: University of Chicago Press.

Mullins, Nicholas. 1973. *Theories and Theory Groups in Contemporary American Sociology*. New York, NY: Harper & Row.

Watson, Walter. 1985. *The Architectonics of Meaning: Foundations of the New Pluralism*. Albany, NY: State University of New York Press.

Chapter 1:

Carl Mitcham's publications, all of which are relevant, include:

1972, 1983. *Philosophy and Technology*. Edited with Robert Mackey. New York, NY: Free Press.

1973. *Bibliography of the Philosophy of Technology*. Compiled with Robert Mackey. Chicago, IL: University of Chicago Press.

1984. *Theology and Technology*. Lanham, MD: University Press of America.
1986. *Philosophy and Technology II: Information Technology and Computers in Theory and Practice*. Dordrecht, Netherlands: Reidl.
1989. *Ethical Issues Associated with Scientific and Technological Research for the Military*. New York, NY: New York Academy of Science.
1993. *Philosophy of Technology in Spanish Speaking Countries*. Dordrecht, Netherlands: Kluwer.
1994. *Thinking through Technology: The Path from Engineering to Philosophy*. Chicago, IL: University of Chicago Press.
1995. *Social and Philosophical Constructions of Technology, vol. 15 of Research in Philosophy & Technology*. Greenwich, CT: JAI Press.
2000. *Engineer's Toolkit: Engineering Ethics*. Upper Saddle River, NJ: Prentice Hall.
2001. *Visions of STS: Counterpoints in Science, Technology, and Society Studies*. Edited with Stephen Cutcliffe. Albany, NY: State University of New York Press.
2002. *The Challenges of Ivan Illich: A Collective Reflection*. Edited with Lee Hoinacki. Albany, NY: State University of New York Press.

Mitcham is also the general editor of the four-volume *Encyclopedia of Science, Technology, and Ethics*. Detroit, MI: Macmillan Reference, 2005.

Note: In subsequent chapters, the publications of opponents tend to be included in the chapter bibliography of the opponent. In Mitcham's case, there are few explicit attacks on him to be found in the literature. One exception is Larry Hickman's response to Mitcham as found in his *Philosophical Tools* (2001); see Chapter 14, below. All I do here is refer the reader to Mitcham's main opponents, by chapter: Mario Bunge in Chapter 5; Don Ihde in Chapter 10; and Andrew Feenberg in Chapter 12.

Chapter 2:

Alex Michalos's publications that might be said to be relevant to philosophy of technology include:

1974. *Philosophical Problems of Science and Technology*. Boston, MA: Allyn & Bacon.
1978. *Foundations of Decision Making*. Ottawa, Canada: Canadian Association for Publishing in Philosophy.
1980. "Philosophy of Science: Historical, Social, and Value Aspects." In P. Durbin, ed., *A Guide to the Culture of Science, Technology, and Medicine*. New York, NY: Free Press. Paperback edition, 1984, with bibliographical update.

1980–1982. *North American Social Report: A Comparative Study of the Quality of Life in Canada and the USA from 1964 to 1974*. Dordrecht: Reidel.

1989. *Militarism and the Quality of Life*. Toronto, Canada: Science for Peace; Downsview, Canada: Stevens.

1991–1993. *Global Report on Student Well-Being*. New York, NY: Springer.

2003. *Essays on the Quality of Life*. Dordrecht, Netherlands: Kluwer.

Chapter 3:

All of Shrader-Frechette's books are relevant to controversies in philosophy of technology:

1980. *Nuclear Power and Public Policy*. Dordrecht, Netherlands: Reidel. Second edition, 1983.

1981. *Environmental Ethics*. Pacific Grove, CA: Boxwood. Second edition, 1991.

1984. *Science Policy, Ethics, and Economic Methodology*. Dordrecht, Netherlands: Reidel.

1985. *Risk Analysis and Scientific Method*. Dordrecht, Netherlands: Reidel.

1991. Ed., *Nuclear Energy and Ethics*. Geneva, Switzerland: WCC Publications.

1991. *Risk and Rationality*. Berkeley, CA: University of California Press.

1992. With Lynton K. Caldwell. *Policy for Land: Law and Ethics*. Lanham, MD: Rowman & Littlefield.

1993. *Burying Uncertainty: Risk and the Case against Geological Disposal of Nuclear Waste*. Berkeley, CA: University of California Press.

1993. *Method in Ecology*. New York, NY: Cambridge University Press.

1994. *The Ethics of Scientific Research*. Lanham, MD: Rowman & Littlefield.

1997. Ed. with Laura Westra. *Technology and Human Values*. Lanham, MD: Rowman & Littlefield.

2002. *Environmental Justice: Creating Equality, Reclaiming Democracy*. New York, NY: Oxford University Press.

Chapter 4:

Wartofsky, Marx W. 1968. *Conceptual Foundations of Scientific Thought*. New York, NY: Macmillan.

_____. 1992. "Technology, Power, and Truth." In L. Winner, ed., *Democracy in a*

Technological Society. Dordrecht, Netherlands: Kluwer. Originally an address at the SPT meeting in 1989.

Most of the following references come from my *Social Responsibility in Science, Technology, and Medicine* (1992; notes for Chapter 11), and are related to the continuing appeal of Marxism after the fall of Soviet Communism:

Buchanan, Allen E. 1981. *Marx and Justice: The Radical Critique of Liberalism*. Totowa, NJ: Rowman and Allanheld.

Feenberg, Andrew. 1991. *Critical Theory of Technology*. New York, NY: Oxford University Press.

Genovese, Eugene D. 1974. *Roll, Jordan, Roll: The World That the Slaves Made*. New York, NY: Pantheon.

Gould, Carol. 1988. *Rethinking Democracy*. New York, NY: Cambridge University Press.

Marx, Karl. 1977. *Selected Writings*, ed. D. McLellan. Oxford, UK: Oxford University Press.

Marcuse, Herbert. 1964. *One-Dimensional Man*. Boston, MA: Beacon Press.

McLellan, David. 1979. *Marxism after Marx*. New York, NY: Harper & Row.

Noble, David. 1977. *America by Design: Science, Technology, and the Rise of Corporate Capitalism*. New York, NY: Knopf.

Osborne, Peter, ed. 1991. *Socialism and the Limits of Liberalism*. New York, NY: Routledge.

Schoolman, Morton. 1980. *The Imaginary Witness: The Critical Theory of Herbert Marcuse*. New York, NY: Free Press.

Chapter 5:

Although, as noted in the text, Bunge's list of books is long, the most relevant sources are:

Bunge, Mario. 1985. *Treatise on Basic Philosophy. VII: Epistemology and Methodology III: Philosophy of Science and Technology. Part II. Life Science, Social Science and Technology*. Dordrecht, Netherlands: Reidel.

_____. 1979. "The Five Buds of Technophilosophy." *Technology in Society* 1:1 (Spring): 67–74.

_____. 1966. "Technology as Applied Science." *Technology and Culture* 7:3 (July): 329–347.

The following references add material for critiques:

Ellul, Jacques. 1964. *The Technological Society*. New York, NY: Knopf. French original 1954.

- Feenberg, Andrew. 1991. *Critical Theory and Technology*. New York, NY: Oxford University Press.
- Hickman, Larry. 1990. *John Dewey's Pragmatic Technology*. Bloomington, IN: Indiana University Press.
- Kirk, Russell. 1953. *The Conservative Mind*. Chicago, IL: Regnery.
- _____, ed. 1982. *The Portable Conservative Reader*. New York: Viking/Penguin.
- Latour, Bruno, and Steve Woolgar. 1979. *Laboratory Life: The Social Construction of Scientific Facts*. Beverly Hills, CA: Sage.
- Lovekin, David. 1991. *Technique, Discourse, and Consciousness: An Introduction to the Philosophy of Jacques Ellul*. Bethlehem, PA: Lehigh University Press.
- Marcuse, Herbert. 1964. *One-Dimensional Man*. Boston, MA: Beacon.
- Margolis, Joseph. 1984. "Three Conceptions of Technology: Satanic, Titanic, Human." In P. Durbin, ed., *Research in Philosophy and Technology*, vol. 7. Greenwich, CT: JAI Press. Pp. 145–158.
- _____. 1986. *Pragmatism without Foundations: Reconciling Realism and Relativism*. New York, NY: Blackwell, 1986.
- Nussbaum, Martha. 1986. *The Fragility of Goodness: Luck and Ethics in Greek Tragedy and Philosophy*. New York: Cambridge University Press.
- Padilla, Hugo. 1993. "Technological Objects and Their Epistemological Base." In C. Mitcham, ed., *Spanish-Language Philosophy of Technology*. Dordrecht, Netherlands: Kluwer. Pp. 121–131.
- Pickering, Andrew. 1992. *Science as Practice and Culture*. Chicago, IL: University of Chicago Press.
- Rapp, Friedrich. 1991. "The Limited Promise of Technology Assessment." In P. Durbin, ed. *Europe, America, and Technology: Philosophical Perspectives*. Dordrecht: Kluwer. Pp. 157–173.
- von Bertalanffy, Ludwig. 1973. *General Systems Theory: Foundation, Development, Applications*. New York, NY: Braziller.
- Winner, Langdon. 1977. *Autonomous Technology: Technics-out-of-Control as a Theme in Political Thought*. Cambridge, MA: MIT Press.
- _____. 1986. *The Whole and the Reactor: A Search for Limits in an Age of High Technology*. Chicago, IL: University of Chicago Press.

Chapter 6:

On Margolis:

Krausz, M., and R. Shusterman, eds. 1999. *Interpretation, Relativism, and the Metaphysics of Culture: Themes in the Philosophy of Joseph Margolis*. New York, NY: Humanities Books.

Margolis's writings are so numerous that even a partial listing is overwhelming. What follow are items I think are relevant to Margolis's views on technological society:

2004. *Moral Philosophy after 9/11*. University Park, PA: Pennsylvania State University Press.
2003. *The Unraveling of Scientism: American Philosophy at the End of the Twentieth Century*. Ithaca, NY: Cornell University Press.
2002. *Reinventing Pragmatism: American Philosophy at the End of the Twentieth Century*. Ithaca, NY: Cornell University Press.
1992. *The Heidegger Case: On Philosophy and Politics*. Edited by Joseph Margolis and Tom Rockmore. Philadelphia, PA: Temple University Press.
1986. *Pragmatism without Foundations: Reconciling Relativism and Realism*. New York, NY: Blackwell.

And these items are related to controversial issues about Margolis's views on pragmatism:

- Aboulafia, Mitchell; Myrna Bookman; and Cathy Kemp, eds. 2002. *Habermas and Pragmatism*. London, UK: Routledge.
- Clough, Sharyn. 2003. *Beyond Epistemology: A Pragmatist Approach to Feminist Science Studies*. Lanham, MD: Rowman & Littlefield.
- Dalton, Thomas C. 2002. *Becoming John Dewey: Dilemmas of a Philosopher and Naturalist*. Bloomington, IN: Indiana University Press.
- Davidson, Donald. 1986. "A Coherence Theory of Truth and Knowledge." In E. Lapore, ed. *Truth and Interpretation: Perspectives on the Philosophy of Donald Davidson*. Oxford, UK: Blackwell.
- Dewey, John. 1920. *Reconstruction in Philosophy*. New York, NY: Holt. Later editions 1948, 1957.
- _____. 1925. *Experience and Nature*. Chicago, IL: Open Court.
- _____. 1929. *The Quest for Certainty*. New York, NY: Minton, Balch.

- _____. 1930. *Individualism, Old and New*. New York, NY: Minton, Balch.
- Durbin, Paul T., ed. 2003. Special author-meets-critics number of *Techne*, 7:1 (<http://spt.org>, under "journal"), on the Deweyan philosophy of technology of Larry Hickman.
- Feffer, Andrew. 1993. *The Chicago Pragmatists and American Progressivism*. Ithaca, NY: Cornell University Press.
- Gale, Richard M. 1999. *The Divided Self of William James*. New York, NY: Cambridge University Press.
- Hickman, Larry A. 1990. *John Dewey's Pragmatic Technology*. Bloomington, IN: Indiana University Press.
- _____. 2001. *Philosophical Tools for Technological Culture: Putting Pragmatism to Work*. Bloomington, IN: Indiana University Press.
- _____. 2003. "Revisiting Philosophical Tools for Technological Culture." In Durbin, ed., special number of *Techne* (<http://spt.org>), above, pp. 74–93.
- James, William. 1907. *Pragmatism: A New Name for Some Old Ways of Thinking*. New York, NY: Longmans, Green.
- _____. 1909. *The Meaning of Truth: A Sequel to Pragmatism*. New York, NY: Longmans, Green.
- McDermott, John. 1967. *The Writings of William James: A Comprehensive Edition*. New York, NY: Random House.
- McGee, Glenn. 1997. *The Perfect Baby: A Pragmatic Approach to Genetics*. Lanham, MD: Rowman & Littlefield.
- Mead, George Herbert. 1938. *The Philosophy of the Act*. Chicago, IL: University of Chicago Press.
- _____. 1964. "Scientific Method and Individual Thinker." In A. Reck, ed., *Selected Writings: George Herbert Mead*. Indianapolis, IN: Bobbs-Merrill. Pp. 171–211. (Original 1917.)
- _____. 1964. "Scientific Method and the Moral Sciences." In *Selected Writings* (above), pp. 248–266. (Original 1923.)
- Menand, Louis. 2001. *The Metaphysical Club*. New York, NY: Farrar, Straus and Giroux.
- Morris, Charles W. 1938. *Foundations of the Theory of Signs*. Chicago, IL: University of Chicago Press.
- Nussbaum, Martha. 1986. *The Fragility of Goodness*. New York, NY: Cambridge University Press.

- Palmer, L. M. 2002. "Vico and Pragmatism: New Variations on Vichian Themes." *Transactions of the Charles S. Peirce Society* XXXVIII: 3: 433–440.
- Papini, Giovanni. 1913. *Pragmatismo*. Milan, Italy.
- Peirce, Charles Sanders. 1903. "Lectures on Pragmatism." In C. Hartshorne and P. Weiss, eds., *Collected Papers of Charles Sanders Peirce*. Cambridge, MA: Harvard University Press. Section 5. 196.
- Putnam, Hilary. 1980. *Reason, Truth, and History*. Cambridge, UK: Cambridge University Press.
- _____. 1994. "Sense, Nonsense, and the Senses: An Inquiry into the Powers of the Human Mind." *Journal of Philosophy* 91:9 (September): 445–517.
- Quine, W. V. 1969. "Epistemology Naturalized." *Ontological Relativity and Other Essays*. New York, NY: Columbia University Press.
- Rorty, Richard. 1986. "Pragmatism, Davidson, and Truth." In E. Lapore, ed. *Truth and Interpretation: Perspectives on the Philosophy of Donald Davidson*. Oxford, UK: Blackwell.
- _____. 1998. *Achieving Our Country: Leftist Thought in Twentieth-Century America*. Cambridge, MA: Harvard University Press.
- Stebbing, L. Susan. 1914. *Pragmatism and French Voluntarism*. Cambridge, UK: Cambridge University Press.
- Stuhr, John J. 2000. *Pragmatism and Classical American Philosophy: Essential Readings and Interpretive Essays*. New York, NY: Oxford University Press.
- West, Cornel. 1989. *The American Evasion of Philosophy: A Genealogy of Pragmatism*. Madison, WI: University of Wisconsin Press.

Chapter 7:

There are two volumes of essays in honor of Agassi, both edited by I.C. Jarvie and Nathaniel Laor in the Boston *Studies in the Philosophy of Science* series, vols. 161–162:

1995. *Critical Rationalism, Metaphysics and Science*. Dordrecht: Kluwer.

1995. *Critical Rationalism, the Social Sciences and the Humanities*. Dordrecht: Kluwer.

Books by Agassi in English that have some relevance to this chapter include:

1985. *Technology: Philosophical and Social Aspects*. Dordrecht, Netherlands: Reidel

1990. *Introduction to Philosophy: The Siblinghood of Humanity*. Delmar, NY: Caravan.

Also:

1966. "The Confusion between Science and Technology in the Standard Philosophies of Science." *Technology and Culture* 7:3 (July): 348–366.

See also:

Popper, Karl. 1945. *The Open Society and Its Enemies*. 2 vols. London, UK: Routledge.

_____. 1961. *The Poverty of Historicism*. 2nd ed. London, UK: Routledge.

Russell, Bertrand. 1959. *Common Sense and Nuclear Warfare*. New York, NY: Simon and Schuster.

_____. 2003. Man's Peril, 1954–56. Vol. 28 of *Collected Papers*. London, UK: Routledge.

On Pugwash, see their website: www.pugwash.org.

Chapter 8:

Edmund Byrne's publications include:

1990. *Work, Inc.: A Philosophical Inquiry*. Philadelphia, PA: Temple University Press.

1989. Edited with Joseph C. Pitt. *Technological Transformations*. Dordrecht, Netherlands: Kluwer.

1969. *Human Being and Being Human*. Englewood Cliffs, NJ: Prentice-Hall.

1968. *Probability and Opinion*. The Hague: Nijhoff.

1998. *Public Power, Private Interests: Where Do We Fit In?* AuthorHouse. Self-published.

The literature on work and justice that Byrne refers to, implicitly or explicitly, includes the following:

Barry, Brian. 1973. *The Liberal Theory of Justice*. Oxford, UK: Oxford University Press.

Brown, Alan. 1986. *Modern Political Philosophy: Theories of the Just Society*. New York, NY: Penguin.

Daniels, Norman, ed. 1974. *Reading Rawls*. New York, NY: Basic.

Huizinga, Johan. 1967. *Homo Ludens: A Study of the Play Element in Culture*. Boston, MA: Beacon.

Lichtenburg, Judith. 1984. "Workers, Owners and Factory Closings." *Report from the Center for*

Philosophy and Public Affairs (Fall), p. 12.

- Narveson, Jan. 1989. *The Libertarian Idea*. Philadelphia, PA: Temple University Press.
- Nozick, Robert. 1974. *Anarchy, State, and Utopia*. New York: Basic.
- Rawls, John. 1971. *A Theory of Justice*. Cambridge, MA: Harvard University Press.
- Sandel, Michael J. 1982. *Liberalism and the Limits of Justice*. Cambridge, MA: Cambridge University Press.
- Sclove, Richard E. 1991. "The Nuts and Bolts of Democracy: Toward a Democratic Politics of Technological Design." In P. Durbin, ed., *Critical Perspectives on Nonacademic Science and Engineering*. Bethlehem, PA: Lehigh University Press. Pp. 239–262.
- Solomon, Robert C., and Mark Murphy, eds. 2000. *What Is Justice? Classic and Contemporary Readings*. 2nd ed. New York, NY: Oxford University Press.
- Terkel, Studs. 1972. *Working: People Talk about What They Do All Day and How They Feel about What They Do*. New York, NY: Random House.
- Wolff, Robert Paul. 1977. *Understanding Rawls*. Princeton, NJ: Princeton University Press.

Chapter 9:

Joseph Pitt's books include a number of edited volumes:

1978. *New Perspective on Galileo*. Dordrecht, Netherlands: Reidel.
1985. *Change and Progress in Modern Science: 4th International Conference on the History and Philosophy of Science*. Dordrecht, Netherlands: Kluwer.
1987. *Rational Changes in Science: Essays on Scientific Reasoning*. Dordrecht, Netherlands: Kluwer.
1988. *Theories of Explanation*. New York, NY: Oxford University Press.
1989. With Edmund Byrne. *Technological Transformation*. Dordrecht, Netherlands: Kluwer.
1992. *Galileo, Human Knowledge, and the Book of Nature*. Dordrecht, Netherlands: Kluwer.

Also two of his own:

1981. *Pictures, Images, and Conceptual Change: An Analysis of Wilfred Sellars's Philosophy of Science*. Dordrecht, Netherlands: Reidel.
2000. *Thinking about Technology: Foundations of the Philosophy of Technology*. New York, NY: Seven Bridges.

And he is coeditor of:

2004. With Dhavad Saleh-Isfahani and Douglas Eckel. *The Production and Diffusion of Public Choice Political Economics: Reflections on the VPI Center*. Malden, MA: Blackwell.

Finally, I edited an author-critics number of *Techne*, the online journal of the Society for Philosophy and Technology, on Pitt's *Thinking about Technology*: 5:1, Fall 1999. See <http://spt.org/journal>.

Chapter 10:

Don Ihde's main works on philosophy of technology include:

1979. *Technics and Praxis*. Dordrecht, Netherlands: Reidel.

1983. *Existential Technics*. Albany, NY: State University of New York Press.

1990. *Technology and the Lifeworld: From Garden to Earth*. Bloomington, IN: Indiana University Press.

1993. *Philosophy of Technology: An Introduction*. New York, NY: Paragon House.

For a chapter on Ihde's philosophy of technology, see *Achterhuis* (2001), among the books in his series, below.

The ten volumes Ihde has included in his Indiana University Press series on the philosophy of technology to date:

Hickman, Larry. 1990. *John Dewey's Pragmatic Technology*.

Zimmerman, Michael E. 1990. *Heidegger's Confrontation with Modernity*.

Ihde, Don. 1990. *Technology and the Lifeworld*.

Ihde, Don. 1991. *Instrumental Realism*.

Crease, Robert P. 1993. *The Play of Nature: Experimentation as Performance*.

Feenberg, Andrew, ed. 1995. *Technology and the Politics of Knowledge*.

Hopkins, Patrick D., ed. 1999. *Sex/Machine: Readings in Culture, Gender, and Technology*.

Hickman, Larry. 2001. *Philosophical Tools for Technological Culture: Putting Pragmatism to Work*.

Achterhuis, Hans, ed. 2001. *American Philosophy of Technology: The Empirical Turn*.

Ihde, Don, and Evan Selinger, eds. 2003. *Chasing Technoscience: Matrix for Materiality*.

Chapter 11:

For background to this chapter, I chose Patrick Hamlett:

1992. *Understanding Technological Politics*. Englewood Cliffs, NJ: Prentice Hall.

Winner's book publications include:

1977. *Autonomous Technology: Technology-Out-of-Control in Political Thought*. Cambridge, MA: MIT Press.

1986. *The Whale and the Reactor: A Search for Limits in an Age of High Technology*. Chicago, IL: University of Chicago Press.

And as editor:

1992. *Democracy in a Technological Society*. Dordrecht, Netherlands: Kluwer.

Among his numerous other publications, Winner has attacked critics in the Social Construction of Technology school:

1993. "Upon Opening the Black Box and Finding It Empty: Social Constructivism and the Philosophy of Technology." *Science, Technology, & Human Values* 18:3 (Summer): 362–378.

The article was originally Winner's presidential address at a conference of SPT, and can be found in:

J. Pitt and E. Lugo, eds., 1991. *The Technology of Discovery and the Discovery of Technology*. Blacksburg, VA: SPT.

And he has been attacked in return:

Aibar, Eduardo. 1995. "Technological Frames in a Town Planning Controversy: Why We Do Not Have to Drop Constructivism to Avoid Political Abstinence." *Research in Philosophy and Technology*, vol. 15. Greenwich, CT: JAI Press. Pp. 3–20.

_____. 1996. "The Evaluative Relevance of Social Studies of Technology." *Technè* 1:3–4. See <http://spt.org/journal>.

Woolgar, Steve. 1993. "What's at Stake in the Sociology of Technology? A Reply to Pinch and to Winner." *Science, Technology, & Human Values* 18:4 (Autumn): 523–529.

Chapter 12:

Andrew Feenberg's notes to his Harding review in *Science, Technology, & Human Values* (24:4, Autumn 1999: 483–494) offer the best set of references to his work and background. For

convenience, I have just left his own publications within his list.

Borgmann, Albert. 1984. *Technology and the Character of Contemporary Life*. Chicago, IL: University of Chicago Press.

Braverman, Harry. 1974. *Labor and Monopoly Capital*. New York, NY: Monthly Review Press.

Feenberg, Andrew. 1986. *Lukacs, Marx, and the Sources of Critical Theory*. New York, NY: Oxford University Press.

———. 1991. *Critical Theory of Technology*. New York, NY: Oxford University Press.

———. 1995. *Alternative Modernity*. Berkeley, CA: University of California Press.

———. 1999. *Questioning Technology*. London, UK: Routledge & Kegan Paul.

Galison, Peter, and David Stump, eds. 1996. *The Disunity of Science*. Stanford, CA: Stanford University Press.

Goldmann, Lucien. 1973. *Lukacs et Heidegger*. Paris, France: Denoel/Gonthier.

Harding, Sandra. 1986. *The Science Question in Feminism*. Ithaca, NY: Cornell University Press.

———. 1991. *Whose Science? Whose Knowledge?* Ithaca, NY: Cornell University Press.

———. 1998. *Is Science Multicultural?* Bloomington, IN: Indiana University Press.

Hartsock, Nancy. 1983. "The Feminist Standpoint: Developing the Ground for a Specifically Feminist Historical Materialism." In *Discovering Reality*, edited by S. Harding and M. Hintikka. Dordrecht, Netherlands: Reidel.

Hirschhorn, Larry. 1988. *Beyond Mechanization*. Cambridge, MA: MIT Press.

Latour, Bruno. 1993. *We Have Never Been Modern*. Cambridge, MA: Harvard University Press.

Lukács, Georg. 1971. *History and Class Consciousness*. Cambridge, MA: MIT Press.

Marcuse, Herbert. 1964. *One-Dimensional Man*. Boston, MA: Beacon.

Noble, David. 1984. *Forces of Production*. New York, NY: Oxford University Press.

Pickering, Andrew. 1995. *The Mangle of Practice*. Chicago, IL: University of Chicago Press.

Sohn-Rethel, Alfred. 1978. *Intellectual and Manual Labour: A Critique of Epistemology*. London, UK: Macmillan.

Star, Susan Leigh. 1995. "The Politics of Formal Representations: Wizards, Gurus, and Organizational Complexity." In S. Star, ed., *Ecologies of Knowledge: Work and Politics*

in Science and Technology. Albany, NY: State University of New York Press.

Suchman, Lucy. 1987. *Plans and Situated Actions: The Problem of Human-Machine Communication*. Cambridge, UK: Cambridge University Press.

Winner, Langdon. 1986. *The Whale and the Reactor*. Chicago, IL: University of Chicago Press.

Also see:

Durbin, Paul T. 1994. "Toward Civilizational Change" [review of Feenberg's *Critical Theory of Technology*], in F. Ferre, ed., *Research in Philosophy and Technology*, vol. 14. Greenwich, CT: JAI Press. Pp. 290–293.

Light, Andrew. 1997. "Critical Theorist of Technology: Feenberg on Marx and Democracy," in C. Mitcham, ed. *Research in Philosophy and Technology*, vol. 16. Greenwich, CT: JAI Press. Pp. 131–137.

Rothschild, Joan, ed. 1983. *Machina ex Dea: Feminist Perspectives on Technology*. New York, NY: Pergamon.

Wajcman, Judy. 1991. *Feminism Confronts Technology*. University Park, PA: Pennsylvania State University Press.

Chapter 13:

What follows is taken from the table of contents of the *Techne* (4:1–4 1997) version of the Karlsruhe 1997 conference proceedings (see <http://spt.org/journal>); although I take it to be representative of the state of the art in Germany at the time, an international database would have to be searched to find books by the various authors to provide a proper set of references.

Part I:

Agazzi, Evandro (Fribourg), and Hans Lenk (Karlsruhe), "Advances in the Philosophy of Technology: Proceedings of a Meeting of the International Academy of the Philosophy of Science, Karlsruhe, Germany, May 1997; Introduction."

Hubner, Kurt (Kiel), "Philosophy of Modern Art and Philosophy of Technology."

Kornwachs, Klaus (Cottbus), "A Formal Theory of Technology?"

Lenk, Hans (Karlsruhe), "Advances in the Philosophy of Technology: New Structural Characteristics of Technologies."

Mainzer, Klaus (Augsburg), "Computer Technology and Evolution: From Artificial Intelligence to Artificial Life."

Part II:

Leiber, Theodor (Augsburg), "On the Impact of Deterministic Chaos on Modern Science and Philosophy of Science: Implications for the Philosophy of Technology?"

Poser, Hans (Technical U., Berlin), "On Structural Differences between Science and Engineering."

Schummer, Joachim (Karlsruhe), "Challenging Standard Distinctions between Science and Technology: The Case of Preparative Chemistry."

Part III:

Kanitscheider, Bernulf (Giessen), "Humans and Future Communication Systems."

Leidlmaier, Karl (Innsbruck), "From the Philosophy of Technology to a Theory of Media."

Rammert, Werner (Free Univ., Berlin), "Relations that Constitute Technology and Media that Make a Difference: Toward a Social Pragmatic Theory of Technicization."

Rapp, Friedrich (Dortmund), "The Material and Cultural Aspects of Technology."

Ropohl, Gunther. (Frankfurt), "Philosophy of Socio-Technical Systems."

Tondl, Ladislav (Czech Academy), "Information and Systems Dimensions of Technological Artifacts."

Part IV:

Huning, Alois (Dusseldorf), "Preferences and Value Assessments in Cases of Decision under Risk."

Mohr, Hans (Stuttgart), "Technology Assessment in Theory and Practice."

Lenk, Hans (Karlsruhe), "Conclusion: Technological Responsibility and the Humanities; the University of Karlsruhe."

On Spain a more appropriate set of references can be culled from:

Mitcham, Carl. 1993. *Philosophy and Technology in Spanish Speaking Countries*. Dordrecht, Netherlands: Kluwer.

Mitcham lists the following Invescit-related books as representative of recent work in Spain. The same list appears in the text, but I think it should be repeated here:

Sanmartin, Jose. 1897. *Los nuevos redentores: Reflexiones sobre la ingenieria genetica, la sociobiologia y el mundo feliz que nos prometen* [The new redeemers: Reflections on genetic engineering, sociobiology, and the happy world they promise us]. Barcelona, Spain: Anthropos.

Mitcham, Carl. 1989. *Que es la filosofia de la tecnologia?* [What is the philosophy of

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