References

1. Texts Cited

- Abir-Am, Pnina. "Themes, Genres, and Orders of Legitimation in the Consolidation of New Scientific Disciplines: Deconstructing the Historigraphy of Molecular Biology." *History of Science* 23 (1985): 73–117.
- Agassiz, Elizabeth Cary. *Louis Agassiz: His Life and Correspondence*. 2 vols. Boston: Houghton Mifflin, 1886.
- Albury, W. R. "Politics and Rhetoric in the Sociobiology Debate." Social Studies of Science 10 (1980): 519–36.
- Ashmore, Malcolm, Michael Mulkay, and Trevor Pinch. Health and Efficiency. Milton Keynes: Open University Press, 1989.
- Barker, Martin. The New Racism. London: Junction, 1981.
- Barker, Martin. "Sociobiology and Ideology: The Unfinished Trajectory." Unpublished MS, 1986, Bristol Polytechnic, Department of Philosophy.

Barnes, Barry. About Science. Oxford: Basil Blackwell, 1985.

- Barnes, Barry. Scientific Knowledge and Sociological Theory. London: Routledge and Kegan Paul, 1974.
- Barnes, Barry, and David Edge, eds. *Science in Context: Readings in the Sociology of Science*. Milton Keynes: Open University Press, 1982, and Cambridge: MIT Press, 1985.
- Bastide, François. "The Semiotic Analysis of Discourse." Unpublished MS, Paris: École des Mines, 1986.
- Bastide, François. "Une Nuit avec Saturne." Unpublished MS, Paris: École des Mines, 1986.
- Bazerman, Charles. The Inquiring Writer. Boston: Houghton Mifflin, 1981; 1985, 1989.
- Bazerman, Charles. "Modern Evolution of the Experimental Report in Physics: Spectroscopic Articles in *Physical Review*, 1893–1980." Social Studies of Science 14 (1984): 163–96.
- Bazerman, Charles. "Physicists Reading Physics: Schema-Laden Purposes and Purpose-Laden Schema." Written Communication 2 (1985): 3–23.

Bazerman, Charles. "Scientific Writing as a Social Act: A Review of the Literature of the Sociology of Science." In New Essays in Technical and Scientific Communication: Research, Theory, Practice, eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, N.Y.: Baywood, 1982. Pp. 156–84.

- Bazerman, Charles. Shaping Written Knowledge: Essays in the Growth, Form, Function, and Implications of the Scientific Article. Madison: University of Wisconsin Press, 1988.
- Bazerman, Charles. "Studies of Scientific Writing—E Pluribus Unum?" 4S Review 3, no. 2 (1985): 13–20.
- Bazerman, Charles. "What Written Knowledge Does: Three Examples of Academic Discourse." Philosophy of the Social Sciences 11 (1981): 361–87.
- Bazerman, Charles. "The Writing of Scientific Non-Fiction: Contexts, Choices, Constraints." Pre/Text 5 (1984): 39–74.
- Benjamin, Andrew, Geoffrey Cantor, and J. R. R. Christie, eds., The Figural and the Literal: Problems of Language in the History of Science and Philosophy. Manchester: Manchester University Press, 1987.
- Beer, Gillian. Darwin's Plots: Evolutionary Narrative in Darwin, George Eliot, and Nineteenth-Century Fiction. London: Routledge and Kegan Paul, 1983.
- Billig, Michael. Arguing and Thinking: A Rhetorical Approach to Social Psychology. Cambridge: Cambridge University Press, 1987.
- Birke, Lynda, and Jonathan Silverton, eds. *More than the Parts: Biology and Politics*. London: Pluto Press, 1984.
- Bizzell, Patricia. "Cognition, Convention, and Certainty: What We Need to Know About Writing." *Pre/Text* 3 (1982): 215–43.
- Bloor, David. *Knowledge and Social Imagery*. London: Routledge and Kegan Paul, 1976.
- Brannigan, Augustine. *The Social Basis of Scientific Discoveries*. Cambridge: Cambridge University Press, 1981.
- Callon, Michel. "Struggles and Negotiations to Define What Is Problematic and What Is Not: The Socio-logic of Translation." In *The Social Process of Scientific Investigation*. Sociology of the Sciences, Vol. IV, eds. K. Knorr, R. Krohn, and R. Whitley. Dordrecht: Reidel, 1980. Pp. 197–219.
- Callon, Michael, and Bruno Latour. "Unscrewing the Big Leviathan: How Actors Macrostructure Reality and Sociologists Help Them to Do So." In Advances in Social Structure and Methodology: Toward an Integration of Micro and Macro-Sociologies, eds. K. Knorr-Cetina and A. Cicourel. London: Routledge and Kegan Paul, 1981. Pp. 277–303.
- Callon, Michael, John Law, and Arie Rip, eds. Mapping the Dynamics of Science and Technology: Sociology of Science in the Real World. London: Macmillan, 1986.
- Cannon, Walter F. "Darwin's Vision in *On the Origin of Species."* In *The Art* of Victorian Prose, eds. George Levine and William Madden. New York: Oxford University Press, 1968. Pp. 154–76.

- Chubin, Daryl, and S. Moitra. "Content Analysis of References." Social Studies of Science 5 (1975): 423-41.
- Clark, Ronald. J.B.S.: The Life and Work of J.B.S. Haldane. London: Hodder and Stoughton, 1968.
- Clifford, James E., and George E. Marcus, eds. Writing Culture: The Poetics and Politics of Ethnography. Berkeley: University of California Press, 1986.
- Cloître, Michel, and Terry Shinn. "Enclavement et Diffusion du Savoir." Social Science Information 25, no. 1 (1986): 161–87.
- Cloître, Michel, and Terry Shinn. "Expository Practice: The Social, Cognitive, and Epistemological Linkage." Expository Science: Forms and Functions of Popularisation. Sociology of the Sciences Yearbook, Vol. 9. Dordrecht: D. Reidel, 1985. Pp. 31–60.
- Cole, Jonathan, and Stephen Cole. "Which Researcher Will Get the Grant?" Nature, 279 (1979): 575-76.
- Cole, Stephen, Jonathan R. Cole, and Gary A. Simon. "Chance and Consensus in Peer Review." Science 214 (1981): 881–86.
- Cole, Stephen, R. Rubin, and Jonathan R. Cole. "Peer Review and the Support of Science." Scientific American 237, no. 4 (1977): 34-41.
- Collins, Harry. Changing Order: Replication and Induction in Scientific Practice. Beverly Hills and London: Sage, 1985.
- Collins, Harry. "An Empirical Relativist Programme in the Sociology of Scientific Knowledge." In *Science Observed: Perspectives on the Social Study of Science*, eds. Karin D. Knorr-Cetina and Michael Mulkay. Beverly Hills and London: Sage, 1983. Pp. 85–113.
- Collins, Harry. "The Seven Sexes: A Study in the Sociology of a Phenomenon, or the Replication of Experiments in Physics." Sociology 9 (1975): 205–24. Rpt. in Science in Context, eds. Barry Barnes and David Edge. Milton Keynes: Open University Press, 1982. Pp. 94–116.
- Collins, Harry. "Son of the Seven Sexes: The Social Destruction of a Physical Phenomenon." Social Studies of Science 11 (1981): 33-62.
- Collins, Harry, and Trevor Pinch. Frames of Meaning: The Social Construction of Extraordinary Science. London: Routledge and Kegan Paul, 1982.
- Conan Doyle, Arthur. Sherlock Holmes: The Complete Long Stories. London: John Murray, 1929.
- Cooper, Charles, and Lee Odell. "Considerations of Sound in the Composing Processes of Published Writers." *Research in the Teaching of English* 10 (1976): 103–15.
- Coulthard, Malcolm. An Introduction to Discourse Analysis. London: Longman, 1977.
- Cozzens, Susan. "Comparing the Sciences: Citation Context Analysis of Papers from Neuropharmacology and the Sociology of Science." Social Studies of Science 15 (1985): 127–53.

- Crocker, D. R. "Anthropomorphism: Bad Practice, Honest Prejudice?" New Scientist 16 July (1981): 159–62.
- Crocker, Joe. "Sociobiology: The Capitalist Synthesis." Radical Science Journal 13 (1983): 55–72.
- Culler, Dwight. "The Darwinian Revolution and Literary Form." In *The Art of Victorian Prose*, eds. George Levine and William Madden. New York: Oxford University Press, 1968. Pp. 224–46.
- Darwin, Charles. Journal of Researches into the Natural History and Geology of the Countries Visited During the Voyage Round the World of H.M.S. 'Beagle' Under Command of Captain Fitz Roy, R. N. 1845; reprinted London: John Murray, 1901.
- Darwin, Charles. *The Origin of Species*. 1859; reprinted Harmondsworth: Penguin, 1968.
- Dawkins, Richard. The Selfish Gene. Oxford University Press, 1976.
- Dialectics of Biology Group. Against Biological Determinism. London: Allison and Busby, 1982.
- Dudley-Evans, Tony, ed. "Genre Analysis and ESP." ELR Journal 1 (1987).
- Eagleton, Terry. Literary Theory: An Introduction. Oxford: Blackwell, 1984.
- Eisenstein, Elizabeth K. The Printing Press as an Agent of Change. Cambridge: Cambridge University Press, 1979.
- Ezrahi, Yaron. "The Authority of Science in Politics." In Science and Values, eds. A. Thackray and E. Mendelsohn. New York: Humanities Press, 1974. Pp. 215–51.
- Fleck, Ludwik. The Genesis and Development of a Scientific Fact. Chicago: University of Chicago Press, 1981.
- Freud, Sigmund. "From the History of an Infantile Neurosis (The 'Wolf Man')." The Pelican Freud Library, Volume 9: Case Histories II. Harmondsworth: Penguin, 1979. Pp. 227–366.
- Garfinkel, Harold. *Studies in Ethnomethodology*. Englewood Cliffs: Prentice-Hall, 1967; reprinted, Cambridge: Polity Press, 1984.
- Garfinkel, Harold, Michael Lynch, and Eric Livingston. "The Work of a Discovering Science Construed with Materials the Optically Discovered Pulsar." *Philosophy of the Social Sciences* 11 (1981): 131–58.
- Gilbert, Nigel, and Michael Mulkay, "Experiments Are the Key: Participants' Histories and Historians' Histories of Science." *Isis* 75 (1984): 105–25.
- Gilbert, Nigel, and Michael Mulkay. *Opening Pandora's Box: A Sociological Analysis of Scientists' Discourse*. Cambridge: Cambridge University Press, 1984.
- Gilbert, Nigel. "The Transformation of Research Findings into Scientific Knowledge." Social Studies of Science 6 (1976): 281–306.
- Golinski, Jan. "Robert Boyle: Skepticism and Authority in Seventeenth-

Century Chemical Discourse." In *The Figural and the Literal: Problems of Language in the History of Science and Philosophy*, eds. Andrew Benjamin, Geoffrey Cantor, and J. R. R. Christie. Manchester: Manchester University Press, 1987. Pp. 58–82.

- Gordon, M. "The Role of Referees in Scientific Communication." In The Psychology of Written Communication: Selected Readings, ed. J. Hartley. London: Kogan Page, 1980. Pp. 263–75.
- Gossler, M. "Numerology." Nature 306 (1983): 530.
- Haldane, J. B. S. *The Inequality of Man and Other Essays*. Harmondsworth: Penguin, 1937.
- Haldane, J. B. S. On Being the Right Size. Oxford: Oxford UP, 1985.
- Halfpenny, Peter. "Talking of Writing, Writing of Writing: Some Reflections on Gilbert and Mulkay's Discourse Analysis." *Social Studies of Science* 18 (1988): 169–82.
- Heritage, John. Garfinkel and Ethnomethodology. Cambridge: Polity Press, 1984.
- Hesse, Mary. *Revolutions and Reconstructions in the Philosophy of Science*. Brighton: Harvester, 1980.
- Holmes, Frederick L. "Lavosier and Krebs: The Individual Scientist in the Near and Deeper Past." *Isis* 75 (1984): 131–42.
- Holmes, Frederick L. "Writing and Discovery." Isis 78 (1987): 220-35.
- Hull, David L. "Openness and Secrecy in Science: Their Origins and Limitations." Science, Technology, and Human Values 10, no. 2 (1985): 4–13.
- Hull, David L. "Thirty-one Years of Systematic Zoology." Systematic Zoology 32, no. 4 (1983): 315–42.
- Jacobi, Daniel. "Références Iconiques et Modèles Analogiques dans des Discours de Vulgarisation Scientifique." Social Science Information 24, no. 4 (1985): 847–67.
- Jameson, Fredric. *The Political Unconscious: Narrative as a Socially Symbolic Act.* Ithaca: Cornell University Press, 1981.
- Kenward, M. "Peer Review and the Axe Murderers." New Scientist 31 May (1984): 13.
- Knorr-Cetina, Karin. The Manufacture of Knowledge: An Essay on the Constructivist and Social Nature of Science. Oxford: Pergamon, 1981.
- Knorr-Cetina, Karin, and Michael Mulkay, eds. Science Observed: Perspectives on the Social Study of Science. Beverly Hills and London: Sage, 1983.
- Landau, Misia. "Human Evolution as Narrative." American Scientist 72 (1984): 262–67.
- Latour, Bruno. "Give Me a Laboratory and I Will Raise the World." In *Science Observed*, eds. Karin D. Knorr-Cetina and Michael Mulkay. Beverly Hills and London: Sage, 1983. Pp. 141–70.
- Latour, Bruno. Les Microbes: Guerre et Paix. Paris: Éditions A. M. Métailie,

1984. Translated as *The Pasteurization of France*. Cambridge: Harvard University Press, 1988.

- Latour, Bruno. "A Relativistic Account of Einstein's Relativity." Unpublished MS, École des Mines, Paris, 1986.
- Latour, Bruno. Science in Action: How to Follow Scientists and Engineers Through Society. Milton Keynes: Open UP, 1987.
- Latour, Bruno, and Françoise Bastide. "Writing Science—Fact and Fiction: The Analysis of the Process of Reality Construction Through the Application of Socio-Semiotic Methods to Scientific Texts." In *Mapping the Dynamics of Science and Technology*, eds. Michael Callon, John Law, and Arie Rip. London: Macmillan, 1986. Pp. 51–67.
- Latour, Bruno, and Jocelyn de Noblet, eds. Les "Vues" de L'Esprit, special issue of Culture Technique 14 (Juin 1985).
- Latour, Bruno, and S. C. Strum. "Human Social Origins: Oh Please, Tell Us Another Story." *Journal of Biological and Social Structure* 9 (1986): 169– 87.
- Latour, Bruno, and Steve Woolgar. Laboratory Life: The Social Construction of Scientific Facts. Beverly Hills and London: Sage, 1979; 2nd ed., Laboratory Life: The Construction of Scientific Facts. Princeton: Princeton University Press, 1986.
- Law, John, and Rob Williams. "Putting Facts Together: A Study in Scientific Persuasion." Social Studies of Science 12 (1982): 535–58.
- Lentricchia, Frank. *After the New Criticism*. Chicago: University of Chicago Press, 1981.
- Levidow, Les. "IQ as Ideological Reality." In *Radical Science*, ed. Les Levidow. London: Free Association Books, 1986. Pp. 198–213.
- Lynch, Michael. Art and Artifact in Laboratory Science: A Study in Shop Work and Shop Talk in a Research Laboratory. London: Routledge and Kegan Paul, 1985.
- Lynch, Michael. "Discipline and the Material Form of Images: An Analysis of Scientific Visibility." Social Studies of Science 15 (1985): 37–66.
- Lynch, Michael. "Technical Work and Critical Inquiry: Investigations in a Scientific Laboratory." Social Studies of Science 12 (1982): 499–533.
- Lynch, Michael, Eric Livingston, and Harold Garfinkel. "Temporal Order in Laboratory Work." In Science Observed, eds. Karin D. Knorr-Cetina and Michael Mulkay. Beverly Hills and London: Sage, 1983. Pp. 205– 38.
- Lynch, Michael, and Steve Woolgar, eds. Human Studies: Special Issue on Representation in Science 11 (July 1988).
- Lyotard, Jean-François. *The Post-Modern Condition: A Report on Knowledge*. Manchester: Manchester University Press, 1984.

- Macdonell, Diane. Theories of Discourse: An Introduction. Oxford: Basil Blackwell, 1986.
- Mandel, H. "Funding More NIH Research Grants." Science 221 (1983): 338-40.
- Marcus, George E., and Michael M. J. Fischer. Anthropology as Cultural Critique: An Experimental Moment in the Human Sciences. Chicago: University of Chicago Press, 1986.
- Mayr, Ernst. The Growth of Biological Thought: Diversity, Evolution, and Inheritance. Cambridge, Mass.: Harvard University Press, 1982.
- McKinlay, Andrew, and Potter, Jonathan. "Model Discourse: Interpretive Repertoires in Scientists' Conference Talk." Social Studies of Science 17 (1987): 443–63.
- Medawar, Peter. "Is the Scientific Paper Fraudulent?" Saturday Review 49 (1 August 1964): 42–43.
- Merton, Robert. *The Sociology of Science*. Ed. Norman Storer. Chicago: University of Chicago Press, 1973.
- Miller, Carolyn. "Public Knowledge in Science and Society." Pre/Text 3 (1982): 31-49.
- Morrison, Kenneth. "Some Properties of Telling-Order Designs in Didactic Inquiry." *Philosophy of the Social Sciences* 11 (1981): 245–62.
- Mulkay, Michael. *Science and the Sociology of Knowledge*. London: George Allen and Unwin, 1979.
- Mulkay, Michael. The Word and the World. London, Allen and Unwin, 1985.
- Mulkay, Michael, Malcolm Ashmore, and Trevor Pinch. "Colonising the Mind." Paper presented at ESRC Seminar, York University, September 1986.
- Mulkay, Michael, Malcolm Ashmore, and Trevor Pinch. "Measuring the Quality of Life: A Sociological Invention Concerning the Application of Economics to Health Care." Sociology 21 (1987): 541–64.
- Mulkay, Michael, Jonathan Potter, and Steven Yearley. "Why an Analysis of Scientific Discourse is Needed." In *Science Observed*, eds. Karin D. Knorr-Cetina and Michael Mulkay. Beverly Hills and London: Sage, 1983. Pp. 171–204.
- Myers, Greg. "Every Picture Tells a Story: Illustrations in E. O. Wilson's Sociobiology." Human Studies 11 (1988): 235–69.
- Myers, Greg. "Making a Discovery: Narratives of Split Genes." In *Narrative and Cognition*, ed. Christopher Nash. London: Routledge and Kegan Paul, in press.
- Myers, Greg. "Nineteenth-Century Popularizations of Thermodynamics and the Rhetoric of Social Prophecy." Victorian Studies 29 (1985): 35-66.

- Myers, Greg. "The Pragmatics of Politeness in Scientific Articles." *Applied Linguistics* 10 (1989): 1–35.
- Myers, Greg. "Reporting Genetic Fingerprints." Paper presented at the Oxford-Ciba International Symposium on Reporting Science. Oxford, July 1988.
- Myers, Greg. "Science for Women and Children: The Dialogue of Popular Science in the Nineteenth Century." In *Nature Transfigured: Literature and Science 1700–1900*, eds. Sally Shuttleworth and J. R. R. Christie. Manchester: Manchester University Press, 1989.
- Myers, Greg. "Story and Style in Two Review Articles." In *Textual Dynamics of the Professions*, eds. Charles Bazerman and James Paradis. Madison: University of Wisconsin Press, in press.
- National Institutes of Health. *Proceedings of the 1983 Meetings of NIH Scientific Review Groups*. Washington, D.C.: Department of Human Services, 1983.
- National Institutes of Health. Application for Public Health Service Grant. Washington, D.C.: Department of Health and Human Services, 1984.
- Newmeyer, Frederick. Linguistic Theory in America: The First Quarter-Century of Transformational Generative Grammar. New York: Academic Press, 1980.
- Norell, M. "Homology Defined." Nature 306 (1983): 530.
- Paludi, Michele A., and Lisa A. Strayer. "What's in an Author's Name? Differential Evaluations of Performance as a Function of Author's Name." Sex Roles 12 (1985): 353–61.
- Peters, Douglas P., and Stephen J. Ceci. "Peer Review Practices of Psychological Journals: The Fate of Published Articles, Submitted Again." *Behavioral and Brain Sciences* 5 (1982): 187–255.
- Pickering, Andrew. Constructing Quarks: A Sociological History of Particle Physics. Edinburgh: Edinburgh University Press, 1984.
- Pinch, Trevor. "Towards an Analysis of Scientific Observation: The Externality and Evidential Significance of Observational Reports in Physics." Social Studies of Science 15 (1985): 3–36.
- Potter, Jonathan. "Cutting Cakes: A Study of Psychologists' Social Categorizations." Philosophical Psychology 1 (1988): 17–32.
- Potter, Jonathan. "Testability, Flexibility: Kuhnian Values in Scientists' Discourse Concerning Theory Choice." *Philosophy of the Social Sciences* 14 (1984): 303–30.
- Potter, Jonathan, and Margaret Wetherell. "Accomplishing Attitudes: Fact and Evaluation in Racist Discourse." *Text* 8 (1988): 51–68.
- Potter, Jonathan, and Margaret Wetherell. *Discourse and Social Psychology: Beyond Attitudes and Behaviour*. Beverly Hills and London: Sage, 1987. Ree, Jonathan. *Philosophical Tales*. London: Methuen, 1987.

- Rose, Hilary, and Steven Rose. "Radical Science and Its Enemies." In *The Socialist Register 1979*, eds. Ralph Miliband and John Saville. London: Merlin, 1979. Pp. 317–34.
- Royal Society. *The Public Understanding of Science*. London: The Royal Society, 1985.
- Royal Society. "Science is for Everybody." [leaflet] London: The Royal Society, 1985.
- Rudwick, Martin. The Great Devonian Controversy: The Shaping of Scientific Knowledge among Gentlemanly Specialists. Chicago: University of Chicago Press, 1985.
- Sacks, Harvey, Schegloff, Emmanual, and Jefferson, Gail. "A Simplest Systematics for the Organization of Turn-Taking in Conversation." *Language* 50 (1974): 696–735.
- Schrödinger, Erwin. What is Life? Cambridge: Cambridge University Press, 1956.
- Seidel, Gill. "Political Discourse Analysis." Handbook of Discourse Analysis, Vol. 4, ed. Teun van Dijk. London: Academic Press, 1985. Pp. 43–60.
- Shapin, Steven. "History of Science and its Sociological Reconstructions." History of Science 20 (1982): 157–211.
- Shapin, Steven. "Phrenological Knowledge and the Social Structure of Early Nineteenth-Century Edinburgh." Annals of Science 32(1975): 219–43.
- Shapin, Steven. "The Politics of Observation: Cerebral Anatomy and Social Interests in the Edinburgh Phrenology Disputes." In On the Margins of Science: The Social Construction of Rejected Knowledge. Sociological Review Monograph 27, ed. Roy Wallis. Keele: University of Keele, 1979. Pp. 139–78.
- Shapin, Steven. "Pump and Circumstance: Robert Boyle's Literary Technology." Social Studies of Science 14 (1984): 481–520.
- Shapin, Steven. "Talking History: Reflections on Discourse Analysis." Isis 75 (1984): 125–28.
- Shapin, Steven, and Simon Schaffer. Leviathan and the Airpump: Hobbes, Boyle, and the Experimental Life. Princeton: Princeton University Press, 1984.
- Shinn, Terry, and Richard Whitley, eds. *Expository Science: Forms and Functions of Popularization*. Dordrecht: Reidel, 1985.
- Shuttleworth, Sally. George Eliot and Nineteenth-Century Science: The Make-Believe of a Beginning. Cambridge: Cambridge University Press, 1984.
- Sinclair, John, and Malcolm Coulthard. *Towards an Analysis of Discourse: The English Used by Teachers and Pupils*. London: Oxford University Press, 1974.
- Sperber, Dan, and Deirdre Wilson. Relevance: Communication and Cognition. Oxford: Basil Blackwell, 1986.

- Stumpf, Walter E. "Peer Review." Science 207 (1980): 823-24.
- Swales, John. Aspects of Article Introductions. Birmingham: Aston University, 1981.
- Swales, John. "Citation Analysis and Discourse Analysis." Applied Linguistics 7 (1986): 39–56.
- Van den Beemt, F., and C. Le Pair. "Appraisal of Peer Review." Paper presented at the meeting of the Society for Social Studies of Science, Blacksburg, Va. November 1983.
- Walker, Teri. "Whose Discourse?" In *Knowledge and Reflexivity: New Frontiers in the Sociology of Knowledge*, ed. Steve Woolgar. London and Beverly Hills: Sage, 1988. Pp. 55–79.
- Watson, James. *The Double Helix*. Reprint, ed. Gunther Stent. New York: Norton, 1981.
- Werskey, Gary. The Visible College. London: Allen Lane, 1978.
- White, Hayden. *Metahistory: The Historical Imagination in Nineteenth-Century Europe.* Baltimore: Johns Hopkins University Press, 1973.
- White, Hayden. *Tropics of Discourse: Essays in Cultural Criticism*. Baltimore: Johns Hopkins University Press, 1978.
- Woolgar, Steve. "Discourse and Praxis." *Social Studies of Science* 16 (1986): 309–18.
- Woolgar, Steve. "Discovery: Logic and Sequence in a Scientifc Text." In The Social Process of Scientific Investigation. Sociology of the Sciences, Vol. IV, eds. K. Knorr, R. Krohn, and R. Whitley. Dordrecht: D. Reidel, 1980. Pp. 239–68.
- Woolgar, Steve. "Interests and Explanations in the Social Study of Science." Social Studies of Science 11 (1981): 365–94.
- Woolgar, Steve. "Irony in the Social Study of Science." In Science Observed, eds. Karin D. Knorr-Cetina and Michael Mulkay. Beverly Hills and London: Sage, 1983. Pp. 239–66.
- Woolgar, Steve. Science: The Very Idea. London: Tavistock, 1988.
- Woolgar, Steve. "Writing an Intellectual History of a Scientific Development: The Use of Discovery Accounts." Social Studies of Science 6 (1976) 395–422.
- Woolgar, Steve, ed. Knowledge and Reflexivity: New Frontiers in the Sociology of Knowledge. Beverly Hills and London: Sage, 1988.
- Wynne, Brian. "Between Orthodoxy and Oblivion: The Normalization of Deviance in Science." On the Margins of Science: The Social Construction of Rejected Knowledge. Sociological Review, Monograph 27, ed. Roy Wallis. Keele: University of Keele, 1979.
- Wynne, Brian. "Establishing the Rules of Laws: Constructing Expert Authority." In Expert Evidence: Interpreting Science in the Law, eds. Roger Smith and Brian Wynne. London: Routledge and Kegan Paul, 1988.

- Wynne, Brian. Rationality or Ritual? Nuclear Decision-Making and the Windscale Inquiry. Chalfont St. Giles, Bucks.: British Society for the History of Science, 1982.
- Wynne, Brian. "Unruly Technology: Practical Rules, Impractical Discourses and Public Understanding." Social Studies of Science 18 (1988): 147–67.
- Wynne, Brian, Peter Williams, and Jean Williams. "Cumbrian Hill-Farmers' Views of Scientific Advice." Evidence to the House of Commons Select Committee on Agriculture: The Chernobyl Disaster and Effects of Radioactive Fallout on the U.K. Lancaster: Center for Science Studies and Science Policy. University of Lancaster, 1988.
- Yearley, Steven. "Representing Geology: Textual Structures in the Pedagogical Presentation of Science." Expository Science: Forms and Functions of Popularization. Sociology of the Sciences Yearbook, Vol. IX, eds. Terry Shinn and Richard Whitley. Dordrecht: D. Reidel, 1985. Pp. 79–101.
- Yearley, Steven. "Textual Persuasion: The Role of Social Accounting in the Construction of Scientific Arguments." *Philosophy of the Social Sciences* 11 (1981): 409–35.
- Young, Robert. *Darwin's Metaphor*. Cambridge: Cambridge University Press, 1986.
- Ziman, John. An Introduction to Science Studies: The Philosophical and Social Aspects of Science and Technology. Cambridge: Cambridge University Press, 1984.
- Zuckerman, Harriet, and Robert Merton. "Institutionalized Patterns of Evaluation in Science." In Robert Merton, *The Sociology of Science*, ed. Norman Storer. Chicago: University of Chciago Press, 1973. Pp. 460–98.

2. Texts Discussed: Chapter 3

The Two Articles Discussed in Detail

- Bloch, David, B. McArthur, R. Widdowson, D. Spector, R. Guimares, and J. Smith. "tRNA-rRNA Sequence Homologies: Evidence for a Common Evolutionary Origin?" *Journal of Molecular Evolution* 19 (1983): 420–28.
- Crews, David. "Gamete Production, Sex Hormone Secretion, and Mating Behavior Uncoupled." *Hormones and Behavior* 18 (1984): 22–28.

Other Works Mentioned for Comparison

- Bloch, David. "tRNA-rRNA Sequence Homologies: A Model for the Origin of a Common Ancestral Molecule, and Prospects for Its Reconstruction." Origins of Life 14 (1984): 571–78.
- Bloch, David, C.-T. Fu, and P. Dean. "DNA and Histone Synthesis Rate

Change During the S. Period in Erlich Ascites Tumor Cells." *Chromosoma* 82 (1981): 611–26.

- Bloch, David, Barbara McArthur, and Sam Mirrop. "tRNA-rRNA Sequence Homologies: Evidence for an Ancient Modular Format Shared by tRNAs and rRNAs." *BioSystems* 17 (1985): 209–25.
- Crews, David. "Diversity of Hormone-Behavior Controlling Mechanisms," and "Alternative Reproductive Tactics in Reptiles." *BioScience* 33 (1983): 545, 562–67.
- Crews, David. "Functional Associations in Behavioral Endocrinology." In Masculinity/Femininity: Concepts and Definitions, ed. J. M. Reinisch. Bloomington: Indiana University Press, 1985.
- Crews, David, ed. Psychobiology of Reproductive Behavior: An Evolutionary Perspective. Englewood Cliffs, N.J.: Prentice-Hall, 1987.
- Crews, David. "Psychobiology of Reptilian Reproduction." Science 189 (1975): 1059–1065.
- Crews, David, and Michael C. Moore. "Evolution of Mechanisms Controlling Mating Behavior." *Science* 231 (1986): 121–25.
- Lewin, Roger. "Basic Modular Formats in tRNA's and rRNA's." Science 229 (1985): 1254.
- Nazarea, Apolinario D., David P. Bloch, and Anne C. Semrau. "Detection of a Fundamental Modular Format Common to Transfer and Ribosomal RNAs: Second-Order Spectral Analysis." *Proceedings of the National Academy of Sciences USA* 82 (1985): 5337–42.

3. Texts Discussed: Chapter 4

- Cole, Charles J. "Parthenogenetic Lizards [Technical Comment]." Science 201 (1978): 1154–55.
- Cole, Charles J. "Unisexual Lizards." Scientific American 250 (January 1984): 84–90.
- Cole, Charles J., and Carol R. Townsend. "Sexual Behavior in Unisexual Lizards." *Animal Behaviour* 31 (1983): 724–28.
- Crews, David, "Courtship in Unisexual Lizards: A Model for Brain Evolution." Scientific American 225 (December 1987): 116–21.
- Crews, David, and Kevin T. Fitzgerald. " 'Sexual' Behavior in Parthenogenetic Lizards (*Cnemidophorus*)." Proceedings of the National Academy of Sciences 77 (1980): 499–502.
- Crews, David, Jill E. Gustafson, and Richard E. Tokarz. "Psychobiology of Parthenogenesis." In *Lizard Ecology*, eds. R. B. Huey, E. R. Pianka, and T. W. Schoener. Cambridge: Harvard University Press, 1983. Pp. 205–31.

- Crews, David, and Michael C. Moore. "The Evolution of Brain Mechanisms Controlling Mating Behavior." *Science* 231 (1986): 121–25.
- Crews, David, and Michael C. Moore. "Reproductive Psychobiology of Parthenogenetic Whiptail Lizards." In *Biology of Cnemidophorus Lizards*, ed. J. W. Wright. Seattle: University of Washington Press, in press.
- Cuellar, Orlando. "Animal Parthenogenesis: A New Evolutionary-Ecological Model is Needed." Science 197 (1977): 837-43.
- Cuellar, Orlando. "Further Aspects of Competition and Some Life History Traits of Coexisting Parthenogenetic and Bisexual Whiptail Lizards." In *Biology of Cnemidophorus Lizards*, ed. J. W. Wright. Seattle: University of Washington Press, in press.
- Cuellar, Orlando. "Long-term Analysis of Reproductive Periodicity in the Lizard *Cnemidophorus uniparens*." *American Midland Naturalist* 105 (1981): 93–101.
- Cuellar, Orlando. "Parthenogenetic Lizards [Response to Technical Comments]." Science 201 (1978): 1155.
- Moore, Michael C., Joan M. Whittier, Allan J. Billy, and David Crews. "Male-like Behaviour in an All-female Lizard: Relationship to Ovarian Cycle." *Animal Behaviour* 33 (1985): 284–89.
- Vanzolini, P. E. "Parthenogenetic Lizards [Technical Comment]." Science 201 (1978): 1152.
- Wright, J. W. "Parthenogenetic Lizards [Technical Comment]." Science 201 (1978): 1152–54.

4. Texts Discussed: Chapter 5

- Crews, David, and William R. Garstka. "The Ecological Physiology of a Garter Snake." *Scientific American* November 1982: 136–44.
- Culliton, Barbara, revision of Jordan Gutterman et al. "Immunoglobulin on Tumor Cells and Tumor Induced Lymphocyte Blastogenesis in Human Acute Leukemia." *The New England Journal of Medicine* 288 (1973): 173–75.
- Dunbar, Robin. "How to Listen to the Animals." New Scientist 13 June 1985.
- Garstka, William R., and David Crews. "Female Sex Pheromone in the Skin and Circulation of a Garter Snake." *Science* 214 (1981): 681–83.
- Gilbert, Lawrence. "The Coevolution of a Butterfly and a Vine." Scientific American August 1982: 110–21.
- Ingelfinger, F. J. "Twin Bill on Tumor Immunity." The New England Journal of Medicine 289 (1973): 268–69.

- "Leapin' Lizards: Lesbian Reptiles Act Like Males." *Time* 18 February 1981.
- Massa, Don. "Working in Glass Houses." Alcalde: UT Austin Alumni Magazine January/February 1985: 6–8.
- Mellanby, K. "Science Writing." New Scientist 15 March 1973: 625.
- "Men and Women Under Forty Who Are Changing America : David Crews." Esquire December 1984: 36.
- Papworth, M. "Oversimplified." New Scientist 12 April 1973: 123.
- Parker, Geoffrey A. "The Reproductive Behaviour and the Nature of Sexual Selection in *Scatophaga stercoraria* L. (Diptera: Scatophagidae).
 IX. Spatial Distribution of Fertilization Rates and Evolution of Male Search Strategy Within the Reproductive Area." *Evolution* 28 (1974): 93–108.
- Parker, Geoffrey. "Sex Around the Cow-pats." New Scientist 12 April 1979: 125–27.
- Williams, Kathy S., and Lawrence E. Gilbert. "Insects as Selective Agents on Plant Vegetation Morphology: Egg Mimicry Reduces Egg Laying by Butterflies." Science 212 (1980): 467–69.
- Wright, Pearce. "Deceiving Vine Keeps Butterflies at Bay." The Times (London) 20 August 1982.

5. Texts Discussed: Chapter 6

- Allen, Elizabeth et al. "Against Sociobiology." New York Review of Books 13 (November 1976). Reprinted in *The Sociobiology Debate*, ed. Caplan. Pp. 259–64.
- Alper, Joseph. "Ethical and Social Implications." In Sociobiology and Human Nature, ed. Gregory et al. Pp. 195–213.
- Alper, Joseph, J. Beckwith, C. L. Chorover, et al. "The Implications of Sociobiology." In *The Sociobiology Debate*, ed. Caplan. Pp. 333–36.
- Alper, Joseph, Jon Beckwith, and Lawrence G. Miller. "Sociobiology Is a Political Issue." In *The Sociobiology Debate*, ed. Caplan. Pp. 476–88.
- Baerends, G. P. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 700.
- Barlow, George W. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 700-701.
- Bateson, Patrick. "Preface." In Current Problems in Sociobiology, ed. King's College Sociobiology Group. Cambridge: Cambridge University Press, 1982. Pp. ix-xi.
- Beach, Frank. "Sociobiology and Interspecific Comparisons of Behavior." In Sociobiology and Human Nature, ed. Gregory et al. Pp. 116–35.

- Burian, Richard M. "A Methodological Critique of Sociobiology." In The Sociobiology Debate, ed. Caplan. Pp. 376–95.
- Campbell, Colin. "Anatomy of a Fierce Academic Feud." New York Times (November 9, 1986) section 12: 58–64.
- Caplan, Arthur L. "Ethics, Evolution, and the Milk of Human Kindness." Hastings Center Report, April 1976. Reprinted in *The Sociobiology Debate*, ed. Caplan. Pp. 304–14.
- Caplan, Arthur L., ed. The Sociobiology Debate: Readings on Ethical and Scientific Issues. New York: Harper and Row, 1978.
- Crocker, Joe. "Sociobiology: The Capitalist Synthesis." Radical Science Journal 13 (1983): 55–72.
- Dawkins, Richard. The Selfish Gene. Oxford: Oxford University Press, 1976.
- Dunbar, R. I. M. "Adaptation, Fitness, and Evolutionary Tautology." Current Problems in Sociobiology, ed. King's College Sociobiology Group. Cambridge: Cambridge University Press, 1982. Pp. 9–28.
- Dupree, A. Hunter. " 'Sociobiology' and the Natural Selection of Scientific Disciplines." *Minerva* (1977): 94–101.
- Eckland, Bruce K. "Darwin Rides Again." In "Review Symposium." American Journal of Sociology 82 (1976): 692–697.
- Gould, Stephen Jay. "Biological Potential vs. Biological Determinism." Natural History Magazine May 1976. Reprinted in The Sociobiology Debate, Caplan. Pp. 343–51.
- Gregory, Michael S., Anita Silvers, and Diane Sutch, eds. Sociobiology and Human Nature: An Interdisciplinary Critique and Defense. San Francisco: Jossey-Bass, 1978.
- Hammerton, M. "Rose's Faith." New Scientist 3 June 1976: 547.
- Hinde, R. A. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 706–7.
- Hirsch, Jerry. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 707–9.
- Holton, Gerald. "The New Synthesis?" In Sociology and Human Nature, ed. Gregory et al. Pp. 75–97.
- Hull, David L. "Scientific Bandwagon or Travelling Medicine Show?" In Sociobiology and Human Nature, ed. Gregory et al. Pp. 136–63.
- King, James C. "The Genetics of Sociobiology." In Sociobiology Examined, ed. Montague. Pp. 82–107.
- Krebs, John R. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976) 709–10.
- Krebs, John R. "Sociobiology Ten Years On." New Scientist 3 October 1985: 40-43.

- Lewin, Roger. "The Course of a Controversy." *New Scientist* 13 May 1976: 344-45.
- Midgely, Mary. "Rival Fatalisms: The Hollowness of the Sociobiology Debate." In *Sociobiology Examined*, ed. Montague. Pp. 15–38.
- Miller, Lawrence. "Fated Genes." Journal of the Behavioral Sciences April 1976. In The Sociobiology Debate, ed. Caplan. Pp. 269–79.
- Miller, Lawrence. "Philosophy, Dichotomies, and Sociobiology." Hastings Center Report 25 October 1976. Reprinted in The Sociobiology Debate, ed. Caplan. Pp. 319–24.
- Montague, Ashley, ed. *Sociobiology Examined*. Oxford: Oxford University Press, 1980.
- Maynard Smith, John. "The Birth of Sociobiology." New Scientist 26 September 1985: 48–50.
- Parker, Geoffrey A. "Selfish Genes, Evolutionary Games, and the Adaptiveness of Behavior." Nature 274 (1978): 849–55.
- Rose, Hilary, and Steven Rose. "Radical Science and Its Enemies." In *The Socialist Register 1979*, eds. R. Miliband and J. Saville. London: Merlin, 1979. Pp. 317–35.
- Rose, Steven. "Sociobiology." New Scientist 20 May 1976: 433.
- Rose, Steven. "Sociopolitics." New Scientist 17 June 1976: 663.
- Rose, Steven. "It's Only Human Nature: The Sociobiologist's Fairyland." Race and Class 20 (1979). Reprinted in Sociobiology Examined, ed. Montague. Pp. 158–70.
- Rose, Steven, R. C. Lewontin, and Leon J. Kamin. Not In Our Genes: Biology, Ideology, and Human Nature. Harmondsworth: Penguin, 1984.
- Rosenblatt, J. S. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 713–15.
- Ruse, Michael. "Sociobiology: A Philosophical Analysis." In The Sociobiology Debate, ed. Caplan. Pp. 355-75.
- Ruse, Michael. Sociobiology: Sense or Nonsense? Dordrecht: D. Reidel, 1979.
- Sade, Donald Stone. "The Evolution of Sociality." In *The Sociobiology Debate*, ed. Caplan. Pp. 239–46.
- Segerstrale, Ullica. "Colleagues in Conflict: An 'In Vivo' Analysis of the Sociobiology Controversy." *Biology and Philosophy* 1 (1986): 53–87.
- Silcock, Brian. "How Genetic Is Human Behavior?" Sunday Times (London) 6 June 1976: 17.
- Sociobiology Study Group. "Sociobiology: Another Biological Determinism." Bioscience 26 (1976). Reprinted in The Sociobiology Debate, ed. Caplan. Pp. 280–90.
- Tinbergen, Niko. "On War and Peace in Animals and Man." (1968). Reprint in *The Sociobiology Debate*, ed. Caplan. Pp. 76–99.

- Tobach, Ethel. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 712–13.
- Tobach, Ethel. "The Methodology of Sociobiology from the Viewpoint of a Comparative Psychologist." In *The Sociobiology Debate*, ed. Caplan. Pp. 411–23.
- Wade, Nicholas. "Sociobiology: Troubled Birth for a New Discipline." Science 191 (19 March 1976). Reprinted in The Sociobiology Debate, ed. Caplan. Pp. 325–32.
- Waddington, C. H. "Mindless Societies." New York Review of Books 7 August 1975. Reprinted in The Sociobiology Debate, ed. Caplan. Pp. 252–58.
- Washburn, S. L. "Animal Behavior and Social Anthropology." In Sociobiology and Human Nature, ed. Gregory et al. Pp. 53-74.

———. "Human Behavior and the Behavior of Other Animals." In Sociology Examined, ed. Montague. Pp. 254–82.

- Wilson, E. O. "Academic Vigilantism and the Political Significance of Sociobiology." *Bioscience* 26 (1976). Reprinted in *The Sociobiology Debate*, ed. Caplan. Pp. 291–303.
- Wilson, E. O. "Biology and the Social Sciences." Daedalus 106.4 (1977): 127-40.
- Wilson, E. O. "For Sociobiology." New York Review of Books 11 December 1975. Reprinted in *The Sociobiology Debate*, ed. Caplan. Pp. 265–68.
- Wilson, E. O. "Foreword." In The Sociobiology Debate, ed. Caplan. Pp. xixiv.
- Wilson, E. O. "Human Decency Is Animal." New York Times Magazine 12 (October 1975): 39–50.
- Wilson, E. O. "Introduction: What Is Sociobiology?" In Sociobiology and Human Nature, ed. Gregory et al. Pp. 1-12.
- Wilson, E. O. "Multiple Review of Wilson's Sociobiology." Animal Behaviour 24 (1976): 698-99 and 716-18.
- Wilson, E. O. Sociobiology: The New Synthesis. Cambridge: Harvard University Press, 1975.

Wynne-Edwards, V. C. "Bulls-eye of Sociality." Nature 259 (1975): 253-54.

6. Texts Discussed: Conclusion

Crook, J. H., and J. S. Gartlan. "Evolution of Primate Societies." *Nature* 210 (1966): 1200–1204. The table discussed is also given in E. O. Wilson, *Sociobiology*, p. 522.

"A Genetic Defense of the Free Market." Business Week 10 April 1978: 100.

Stein, Sara. Girls and Boys: The Limits of Non-Sexist Childrearing. London: Chatto and Windus, 1984.