

David C. Magnus

Stanford University
701 Welch Road • Building A, Suite 1105 • Palo Alto, California 94304
(650) 723-7735 • Fax (650) 725-6131
dmagnus@stanford.edu

ACADEMIC APPOINTMENTS

Stanford University

Stanford Center for Biomedical Ethics (School of Medicine)

Associate Professor of Pediatrics and by courtesy, Medicine (2003-)

PRIOR ACADEMIC APPOINTMENTS

The University of Pennsylvania

Department of Medical Ethics (School of Medicine)

Assistant Professor of Medical Ethics (Standing Faculty, 1997-2003)

University of Puget Sound

Philip M. Phibbs Professor of Ethics & Science (1994-1997)

Asst. Professor of Philosophy (promoted to Associate 1997, 1994-1997)

Grinnell College

Department of Philosophy

Assistant Professor (1989-1994)

ADMINISTRATIVE APPOINTMENTS

Stanford University

Director (Stanford Center for Biomedical Ethics, 2003-)

Co-Chair (Stanford Hospital and Clinics Ethics Committee, 2003-)

Co-Director (Scholarly Concentration in Biomedical Ethics and Medical Humanities, 2003-)

Chair (Program in Regenerative Medicine Sub-Committee on Bioethics and Conflict of Interest)

The University of Pennsylvania

Graduate Studies Director (School of Medicine, Master of Bioethics program, 1997-2003)

Coordinator (Center for Bioethics, program on genetically modified organisms, 1999-2003)

Director (NEH and NSF Summer Institute for College and University
Faculty, 1995-1996)

Grinnell College

Chair (Technology Studies, 1993-1994)

EDUCATION

B.A., **University of California at Riverside** (Philosophy)

Ph.D., **Stanford University** (Philosophy)

EDITORIAL POSITIONS

Associate Editor, *American Journal of Bioethics*, (2000-)

Editorial Advisor on Bioethics, *Nature Reviews Genetics*, 2000

Bioethics Editorial Advisor, *The Encyclopedia of the Life Sciences*,

Nature

REVIEWED MANUSCRIPTS

Publishing Group, MacMillan

MIT Press

Routledge Press

CONSULTING

Microsoft Corporation

National Conference of State Legislators (cloning)

World Bank (Food Security and Biotechnology)

Franklin Institute (Genetics)

Koshland Science Museum of the National Research Council (Genetic
Engineering)

Pew Foundation (Genetic Engineering)

Participant in Boston University workshop on Intellectual Property Rights,
2001.

BIBLIOGRAPHY

Books

David Magnus, Art Caplan, Glenn McGee, Eds., *Who Owns Life?*, Prometheus. 2002.

Research Publications, peer reviewed

Caplan, **D. Magnus**, "New Life Forms: New Threats, New Possibilities", In Brief, *Hastings Center Report*, Nov/Dec., 2003, p. 7.

Magnus, D., "The Meaning of Graduate Bioethics Education", *The American Journal of Bioethics*, v.2, #4, 2002.

Merz, J., **Magnus, D.**, Cho, M., and Caplan, A., "Protecting Subjects interests in Genetics Research", *American Journal of Human Genetics*, 70:965-971, 2002.

Magnus, D., Caplan, A., "NAS Cloning Hearing Disappoints Participants", *Science*, v. 294, #5547, Nov. 23, 2001, p. 1651.

Magnus, D., "Bioethics Programs Evolve as they Grow", *Nature Biotechnology*, Oct. 2001 v.19, p. 991-992.

Magnus, D. and McGee, G., "Eugenics and Ethics" in MJ Mehlman and TH Murray, eds, *The Encyclopedia of Ethical, Legal, and Policy Issues in Biotechnology*, New York: John Wiley and Sons, 2000.

Cho, M., **Magnus, D.**, Caplan, A., McGee, D., and the Ethics of Genomics Group: "Ethical Considerations in Synthesizing a Minimal Genome, *Science*, Dec. 10, 1999.

Caplan, A., McGee, G., and **Magnus, D.**, "What is Immoral about Eugenics? *BMJ*, 319, Nov. 1999.

Magnus, D., Disease Gene Patenting: A Clinician's Dilemma. *Cambridge Quarterly of Healthcare Ethics*, v.7, 1998

Magnus, D., Evolution Without Change in Gene Frequencies. *Biology and Philosophy*, v.13, 1998

Magnus, D., Theory, Practice, and Epistemology in the Development of Species Concepts, *Studies in the History and Philosophy of Science*, v. 27. n. 4, 1997

Magnus, D., Heuristics and Biases in Early Evolutionary Biology. *Biology and Philosophy*, v.12, n.1, 1997

Magnus, D., and Thiel, P., Hidden Adaptationism. *Behavioral and Brain Sciences*, v.13, no.1,1990.

Magnus, D., Causal Stories. *Behavioral and Brain Sciences*, v.13, no.4, 1990.

Research Publications, non-peer reviewed

Magnus, D., *Genetically Modified Organisms Lahey Clinic Medical Ethics Newsletter* Spring, 2001.

Magnus, D., “Response to Callahan”, *Lahey Clinic Medical Ethics Newsletter*, Summer, 2001.

EDITORIALS, REVIEWS, CHAPTERS

Book Chapters

Magnus, D. Deverka, P., “From Genome to Drug: Ethical Issues,” in J. Handen, ed. *Industrialization of Drug Discovery*, Marcel Dekker, Taylor and Francis, 2005.

Magnus, D.: “The Concept of Genetic Disease,” in Arthur Caplan, James McCartney, and Dominic Sisti (eds), *Health, Disease, and Illness*, Georgetown University Press, 2004.

Magnus, D.: “Health and Environmental Concerns about Genetically Modified Organisms”, in Sol Katz., ed. *The Encyclopedia of Food*, 2003.

Magnus, D.: “The Philosophy of Biology”, for the *Encyclopedia of Bioethics*, 3rd edition, Ed. By Stephen Post, 2004.

Magnus, D.: “The Primacy of the Moral in the GMO Debates” (with Art Caplan) in Ruse, M. and Castle, D. (eds). *Genetically Modified Foods: Science, Religion, Morality*. Prometheus Press, 2002.

Magnus, D.: Introduction in Magnus, D., Caplan, A., and McGee, G. (eds). *Who Owns Life?* Prometheus Press, 2002.

Magnus, D.: “Intellectual Property and Agricultural Biotechnology: Bioprospecting or Biopiracy”, in Magnus, D., Caplan, A., and McGee, G. (eds). *Who Owns Life?* Prometheus Press, 2002.

Magnus, D. : “Cloning and the Regulative Dilemma”, in Klotzko, A. (ed). *The Cloning Source Book*. Oxford University Press, 2001.

Magnus, D.: “Ethical Issues in the Move from Genome to Therapy”, in Goode, J. (ed). *From Genome to Therapy: Integrating New Technologies with Drug Development*. Wiley and Co, 2000

Magnus, D.: “Down the Primrose Path: Competing Epistemologies in Early Twentieth Century Biology” in Maienschein and Creath (eds). *Epistemology and*

Biology Cambridge. University Press, 2000.

Magnus, D., “Vernon Lyman Kellogg”. American National Biography. Oxford University Press, 1999.

Magnus, D., “David Starr Jordan”. History of Science in the United States: An Encyclopedia, Marc Rothenberg (ed). Garland Publishing Inc. 1999.

Magnus, D., “Hull and Hubbard: Commentary” in Susan Lawrence, Evan Fales, and Robert Weir, ed. *Genes and Human Self-Knowledge*, University of Iowa Press, 1994.

Editorials

Magnus, D., “Politics and Peer Review”, The American Journal of Bioethics, v. 4, no.1, 2004.

Magnus, D., “Is there a bioethicist at your company? Should there be?”, *Drug Discovery Today*, April 2002, vol. 7, no. 7.

Magnus, D., McGee, G., “The AJOB Experiment,” The American Journal of Bioethics, 1;1, 2001.

Magnus, D., and Dagostino, L., “The Impact of Genetic Testing on the Family”, The American Journal of Bioethics, 1:3, 2001.

Book Reviews

Review of Peter Beurton, R. Falk, H-J Rheinberger, “The Concept of the Gene in Development and Evolution”, for the Journal of the History of Biology, v. 34, p. 406-407, 2001.

Review of David Smith’s, “The Measure of a Gene : A Modest Proposal on the Meaning of Life”, in History and Philosophy of the Life Sciences, v. 20, 1998.

(With Monique Bourque) Review of William Wallace’s, “The Modeling of Nature: Philosophy of Science and Philosophy of Nature in Synthesis”, *ISIS*, v.89, no.2, June 1998.

Review of Carl Cranor, ed. “Are Genes Us?” in History and Philosophy of the Life Sciences, v. 18 (1996).

Review of Maynard Smith and Szathmary's “The Major Transitions in Evolution”, Journal of the History of Biology, v.29, 1996.

Review of Schaffner's "Discovery and Explanation in Biology and Medicine", Journal of the History of Biology, v. 28, no.1, Spring '95

GRANT SUPPORT

- **NHGRI.** Center For Integrating Research On Genetics And Ethics 2004-2009, P50, CO-PI. \$3,953,865
- **DuPont, Dow, Monsanto.** Genetically Modified Foods: Values and Principles. 2001- 2002. PI. \$430,000.
- **Rockefeller Foundation.** Genetically Modified Foods: Values and Principles. 2000-2002. Co-PI and Program Director. \$447,000.
- **Geraldine R. Dodge Foundation.** Who Owns Life? 1998-2000. PI. \$60,000.
- **Scott Charitable Trust.** Who Owns Life? 1998-2000. PI. \$18,700.
- **NEH and NSF.** Scientific, Ethical and Social Challenges of Contemporary Genetic Technology. 1995-1996 PI. \$143,500.
- **GTE Program on Technology and Ethics.** The Human Genome Project: Technological Innovation and its moral consequences. 1993-1994. PI. \$5,000.
- **Harris Fellowship.** Heuristics and Biases in Evolution. 1992-1993. PI. (100% salary, plus \$5,000.
- **GTE Program on Technology and Ethics.** The New Assisted Reproductive Technologies. 1991-1992. Co-PI. \$5,000.

SELECTED PRESENTATIONS

"Biomedical Ethics", for Avenidas, Palo Alto, CA June 15, 2005

"End-of-Life Issues," for Our Lady of the Rosary Church Hall, Palo Alto, CA, May 26, 2005

"Ethical Issues in Stem Cell Research," for Stanford University, The Stanford Center on Ethics, Stanford, CA, May 25, 2005

“The Death of Terry Schiavo: Ethical and Policy Considerations for the Future,” invited talk for the Newsmakers Committee, National Press Club, Washington DC, May 13, 2005

“Moral and Social Consequences of Genetics,” for University of Georgia, Humanities Center, Atlanta, GA, January 31, 2002

“Ethical issues in relation to the new life sciences,” for the Biotechnology & Sustainable Development Conference, Government of Egypt, Alexandria, March, 2002

“Thinking About Bioethics,” for the Biotechnology & Sustainable Development Conference, Government of Egypt, Alexandria, March, 2002

Resident Education Day program, for Obstetrical Society of Philadelphia, PA, May 9, 2002

“Moral Implications of Genetics,” Gordon Conference, Connecticut, July 30, 2002

“Who Owns Life?” Convocation, Woodrow Willson Fellow, Clarkson University, August 29, 2002

“Who Owns Life?” endowed lecture for East Stroudsburch University, October 17, 2002

“The Fictions of Autonomy,” talk for the Poconos medical Center, October 17, 2002

Invited Commentary on Ecological Issues, for “Forestry and Biotechnology”, sponsored by the Pew Initiative on Biotechnology, the Society of American Forestry, and the American Ecological Society, Dec. 4, 2001

“Informed Consent,” invited talk for Pfizer, N.Y., Dec. 3, 2001

“The Human Genome Project and Compliance”, invited talk for the Health Care Compliance Association meeting, Anaheim, CA, Nov. 30, 2001

“Cloning and Genetics”, invited talk for Penn State, Beaver, Nov. 27, 2001

“Cloning and Stem Cell Research: Ethical Issues”, invited talk Missouri Southern University, Springfield, MO, Nov. 8, 2001

“Graduate Education and the Future of Bioethics: the role of masters programs”, ASBH, Nashville, TN, Oct. 26, 2001

“IVF and the Regulative Dilemma”, ASBH, Nashville, TN, Oct. 26, 2001

- “Everything You Wanted to Know About Genetics but Were Afraid to Ask”,
preconference workshop, American Society for Bioethics and Humanities (ASBH),
Nashville, TN, Oct. 25, 2001
- “GMO’: Ethical Issues”, program in the History of Science, Oregon State University,
Oct. 19, 2001
- “Moral and Social Consequences of the Human Genome Project”, Thomas Hart and
Mary Jones Horning Endowment in the Humanities lecture, Oregon State University,
Oct. 18, 2001
- “What is the Value of Research? Protecting Human Subjects at the Frontiers of
Medicine”, invited talk for University of Minnesota, Center for Philosophy of
Science, Center for Bioethics, Center for History of Science, Oct. 12, 2001
- “Cloning: A debate” (with John Robertson), Florida Atlantic University, Oct. 11, 2001
- “Reductionism and Genomics’ Answer to ‘what is life?’”, for the International Society
for History, Philosophy, and Social Studies of Biology, Quinnipiac College, CT, July
20, 2001
- Invited roundtable discussion of GMO’s and Religion for the Pew Foundation,
Washington Press Club, July 10, 2001
- “The Value of Research on Human Subjects on the Frontiers of Medicine”, invited talk
for “Ethics Oversight at the Frontiers of Medicine”, Chicago, Ill., June 2, 2001,
- “ER ethics and the ethics of ER”, invited symposium on “Extraclinical topics in
Emergency Medicine”, Columbus, Ohio, June 1, 2001
- “Ethical Implications of Genetic Testing” Grand Rounds for Grand View Hospital Ethics
Committee, April 24, 2001
- “Ethical Issues in DNA Banking”, invited talk for “Ethical Issues in the Information
Age” held at Cal Poly Pomona, April 19, 2001
- “Ethical Issues in the Move from Genome to Therapy”, invited talk for Marcom IV,
Occupational Medicine, Philadelphia, March 16, 2001
- “Genome Synthesis and Scientific Definitions of Life”, American Association for the
Advancement of Science, San Francisco, CA, Feb. 20, 2001
- Ethics Rounds for Orthopedic Residents, Jan 2001
- “Moral and Social Consequences of the Genetic Revolution” and “The Ethics of
Genetically Modified Foods”, the E.G. Young seminar for the Chemical Institute of

Canada, each talk presented in Ottawa, Canada and Montreal, Canada, Nov. 9 and 10, 2000

“The Concept of the Gene: A double Ambiguity”, for the Philosophy of Science Association, Vancouver, British Columbia, Nov. 3-4, 2000

“The Real Ethics of GMO’s: The legacy of Prometheus” at the American Society for Bioethics and Humanities, Salt Lake City, Utah, Oct. 26-29, 2000

“From Bioethics to the Boardroom”, American Society for Bioethics and Humanities, Salt Lake City, Utah, Oct. 26-29, 2000

“Lessons from the Gelsinger Case”, invited talk for Hastings Center Fellows meeting, Oct. 13-14, 2000

“Moral and Social Consequences of the Genetic Revolution”, invited talk for the Special Libraries Association, Philadelphia, June 12, 2000.

“Can Research on Human Subjects be Justified? The Ethical Foundations of Biomedical Research” invited testimony to the National Bioethics Advisory Commission, San Francisco, June 6, 2000

“Ethical Implications of the New Genetics”, invited talk for Templeton Conference, Haverford, June 4, 2000

Discussion of ethical issues for panel on “Designer Babies” at the alumni-faculty exchange, sponsored by the University of Pennsylvania School of Nursing and School of Arts and Sciences, May 2000

“Genetics and Ethics in the new Millenium”, Washington and Lee University, Virginia, May, 2000

Invited talks for UPHS ethics committees, May 5, 2000

“Tribute to Arthur Caplan”, keynote for Catholic University of America’s Journal of Law and Medicine annual meeting, April 14, 2000

"After Death Issues: Posthumous Reproduction, Cloning and Associated Problems", invited talk for the meeting of the American College of Trust and Estate Counsel, Scottsdale, Arizona, March 4,5 2000

"Gene Therapy and Genetic Exceptionalism", invited talk for the Asilomar III meeting, Asilomar, California, Feb. 15-16, 2000

“Ethical Issues at the Millenium" invited talk for Beebe Medical Center, Rehovoth, Delaware, Feb.9, 2000

"Bioethical Implications of Propertization of Biotechnology", invited talk for the American Intellectual Property Law Association, La Quinta, CA, Jan. 26-29, 2000

Ethics Rounds for Orthopedic Residents, Jan 2000

"Bioethics in the 21st Century: Technological Innovation and its Moral Consequences" invited talk for the Philadelphia Science Fiction Conference, Nov. 12, 1999

"Patenting and the "Eureka Moment", for the American Society for Bioethics and Humanities, Philadelphia, Oct. 28-31, 1999

"The 'Genetic Disease' Concept: Its History and Uses", for the American Society for Bioethics and Humanities, Philadelphia, Oct. 28-31, 1999

"Ethical Issues in Gene Therapy", for the University of Pennsylvania Institute for Human Gene Therapy Retreat, Oct. 2, 1999

"The Gene for 'x': a doubly ambiguous concept", for the International Society for History, Philosophy, and Social Studies of Biology, Oaxaca, Mexico, July 1999

"From Genome to Therapy: Ethical Issues", invited talk for *From Genome to Therapy: Integrating New Technologies with Drug Development*, Novartis Foundation, Basel, Switzerland, June, 1999

"Graduate Education in Bioethics", for the Bioethics Annual Summer Retreat, Homestead, VA, June 1999

"Current State of Genetics in Medicine: Ethical Issues" for the Legislative Office for Research Liaison, Harrisburg, April 20, 1999

"Whose Property is it Anyway?" for the American Society of Invest. Pathology meeting, Washington, D.C., April 19, 1999

Invited Panelist for the Future Forces Rountable of the Grocey Manufacturers of America, Oct. 20-21, 1999

"The Regulative Dilemma in Reproductive and Genetic Medicine" for the Institute. Of Medicine and UPHS meeting with Congressional Staffers, March 30, 1999

"Ethical Issues in Genetics" invited presentation for Harvard-MIT Hippocratic Societies meeting, Genetic Technology and Society, March 13, 1999

"Ethical Issues in Pharmaceutical Research: Informed Consent?" for Zeneca, Wilmington, DE, March 9, 1999

"Ethical Issues in Cloning" for the American Conference of State Legislators,
Washington, D.C., Feb 4, 1999

Ethics Rounds for Orthopedic Residents, Jan 1999

Discussion of ethics and genetics (with David Shenk) for the Foundry's "Conversation on Hope", hosted by Cornell West, Dec. 1998

"The Diagnosis: Bad Genes; The Cure: Better Babies?" and "Ethical Issues in Internal Medicine":, for the Southern California Society of Internists meeting in Los Angeles, California, Dec. 11,12, 1998

"Cloning and the Regulative Dilemma", for Concerned Citizens of Philadelphia, Nov. 23, 1998

"Theory and Practice in Bioethics", American Society for Bioethics and Humanities meeting, Houston, Texas, Nov. 21, 1998

"Ethical and Social Consequences of the Revolution in Genetic Technology," invited talk First Annual Biotechnology retreat, Carefree, Arizona, Nov.14, 1998

"Ethical Issues in Genetic Testing" for the Board of Women's Visitors of the Hospital of the University of Pennsylvania and the Women's Committee of the Penn Medical Faculty, Nov. 4, 1998

"The Historical Development of the Concept of Genetic Disease", for the History of Science Society meeting, Kansas City, Oct. 1998

"Cloning and the Regulative Dilemma" for the Texas Club of Internists, Oct. 9, 1998

"Introduction to Bioethical Thinking" Invited Grand Rounds for MCP/Hahnemann School of Medicine, Sept 24, 1998.

"Implications of Genetic Testing", for Philadelphia Area Society for Health Care Risk Managers meeting, Sept. 1998

"Ethical Implications of Mammalian Cloning", for Biotech 2001, Virginia Tech, June 1998

"Genetic Testing and the Law", invited panel at Harvard University Law School Symposium on "Genetics and the Family", May, 1998

"The Regulative Dilemma", invited round table discussion of cloning sponsored by the American Institute of Biological Sciences, National Press Club, April 1998

- “Genetic Disease and Genetic Testing: Conceptual Ambiguity and its Implications”, invited speaker at Princeton University, March, 1998
- “Genes and Genetic Programs”, invited speaker at SLOAN workshop, Oxnard, CA, Dec., 1997
- “The Concept of Genetic Disease”, American Association of Bioethics, Baltimore, Nov., 1997
- “BRCA 1 and 2: Eugenics and Public Health”, American Association of Bioethics, Baltimore, Nov., 1997
- “Genetics and Public Health”, American Association of Public Health, Indianapolis, Nov., 1997
- “The Concept of Genetic Disease”, International Society for the History, Philosophy, and Social Studies of Biology, Seattle, July, 1997
- “Reductionism and the Concept of Genetic Disease”, Haverford College, Biology Dept., March, 1997
- "Genetics and Ethics", talk given to the Downtown Tacoma Kiwanis club, Sept., 1996
- "Scientific, Ethical, and Social Challenges of Contemporary Genetic Technology," talk given to the American Institute of Biological Sciences meeting, Seattle, August, 1996.
- "Gene Therapy and the Concept of Genetic Disease" talk given at Texas Tech University, Howard Hughes Medical Institute, 1996.
- "Gene Therapy and the Concept of Genetic Disease", talk given at the University of Washington, 1995.
- "Gene Therapy and the Concept of Genetic Disease" given at the ISHPSSB meeting in Belgium, 1995.
- "Gene Therapy and the Concept of Genetic Disease", talk given at the University of British Columbia, Philosophy Dept. 1995.
- "Ethical Reflections on Technology", talk given to the honors colloquy, Nov. 1994, Highline Community College
- "The role of species concepts in twentieth century biology," talk given at the University of Washington, colloquium, 1994

"Ethical Reflections on Technology", talk given to the honors colloquy, Nov. 1994, Highline Community College.

"Species and the Synthesis", paper given at the *International Society for History, Philosophy, and Social Studies of Biology*, Brandeis University, July, 1993.

"Down the Primrose Path: Competing Epistemologies in Early Twentieth Century Biology", talk given to the Philosophy Department and the Reily Center for Science and Technology Studies, Notre Dame, March, 1993.

Commentator and panelist for session, "Species, Gender and Races: How Similar? How Different?" at the Iowa Humanities Conference, "Genetics and Human Self-Understanding: Historical and Philosophical Implications of Genetics," Iowa City, April, 1992.

"The Role of Values in Science: Feminism, Social Constructivism, and Rationality", talk given to the Philosophy Dept. and the History of Science program at Iowa State University, 1991.

CONFERENCES & SESSIONS ORGANIZED

Conferences

April 2002, "**Food for Thought**", Philadelphia, PA

February 2000; "**Who Owns Life?**", Philadelphia, PA.

June 1999; Co-organizer, **Bioethics Summer Retreat**, Homestead, VA.

July 1999; **Executive Committee**, International Society for History, Philosophy, and Social Studies of Biology, Oaxaca, Mexico.

Sessions

2001, Organizer of session on "Graduate Education and the Future of Bioethics" of the **American Society for Bioethics and Humanities**

2000, Organizer of session on "Ethics & GMOs" of the **American Society for Bioethics and Humanities**.

1999, Organizer of session on "The Ethics of Gene Patenting" of the **American Society for Bioethics and Humanities**

1999, Organizer of session on “The Concept of Gene” of the **International Society for History, Philosophy and Social Studies of Biology**

1999, Organizer of session on “Graduate Education in Bioethics” of the **Bioethics Annual Summer Retreat**

1998, Organizer of session on “Pragmatism and the new Bioethics” of the **American Society for Bioethics and Humanities**

1998, Organizer of session on “The History of the Concept of Genetic Disease” of the **History of Science Society meeting**

1997, Organizer of session on “Genetics and Ethics” of the **International Society for History, Philosophy and Social Studies of Biology**

1997, Organizer of sessions on "Normative Issues in Genetics", for the 1997 meeting of the **International Society for History, Philosophy, and Social Studies of Biology meeting.**

1995, Organizer of session on “Ethics and Gene Therapy” of the **International Society for History, Philosophy and Social Studies of Biology**

1995, Organizer of session, "The Social Nature of Genetic Disease," at the 1995 meeting of the **International Society for the History, Philosophy, and Social Studies of Science meeting**, Leuvan, Belgium.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- American Philosophical Association
- Philosophy of Science Association
- History of Science Society
- American Society for Bioethics and Humanities
- International Society for the History, Philosophy, and Social Studies of Biology (Treasurer and Chief Operating Officer, 1997-1999)