

Jane Maienschein

July 2008

Title: Regents' Professor, President's Professor, and Parents Association Professor
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Education:

Massachusetts Institute of Technology 1968-1969
Yale University, B.A. 1972, History, the Arts, and Letters (with honors)
Indiana University, M.A. 1975; Ph.D. 1978, History and Philosophy of Science, Zoology Minor

Professional Positions:

Arizona State University in partnership with University of Arizona College of Medicine,
Phoenix, co-Director, Scholarly Concentration in Medical Humanities and Ethics, 2007-2008;
Biomedical Sciences Core Faculty
Arizona State University, Director, Center/Program for Biology and Society, 2003-present;
Chair of Philosophy Department 1991-1996; Professor, Philosophy and Zoology/Biology 1990-2003;
Associate Professor, Philosophy and Zoology, 1988-1990; Associate/Assistant Professor,
Philosophy, 1981-1988; Visiting Assistant Professor, Philosophy and Humanities, Spring 1981
Senior Fellow, Dibner Institute for the History of Science and Technology, Spring 2002
Congressional Fellow/Senior Science Advisor to Congressman Matt Salmon; Special Assistant to
ASU's President, January 1997-December 1998
Stanford University, Visiting Associate Professor, History of Science, Winter and Spring, 1987
Harvard University, Visiting Scholar, History of Science, 1983-1984
Dickinson College, Assistant Professor, History of Science, 1978-Fall 1980

Awards and Honors:

Charles W. Bodemer Lecture in Medical Humanities and Ethics, University of Washington, 2008
President's Professor, 2007
John Templeton Visiting Lecturer, "Regenerative Medicine in Historical Context," 2007
Gary S. Krahenbuhl Difference-Maker Award, 2006
Distinguished Teaching Academy, Founding Fellow, 2005
Academy of Arts, Sciences, and Technology of Arizona, Founding Fellow, 2005
ASU "Featured Faculty," January 2005
Fulton Lecturer, History of Medicine Society, Yale University 2004
Independent Publisher's Book Award, one of 2 finalists for Science Books, 2004
Association for Women in Science Fellow, 2004
Plymouth State University, Honorary D. Sci, 2003
Regents' Professorship, 2002
Honors College Outstanding Mentor Award, 2002 (first recipient)
ASU Alumni Association Faculty Achievement Award, 2001
History of Science Society Joseph H. Hazen Education Award, 2000
Parents' Association Outstanding Professor 2000 (named chair)
Alumni Association Outstanding Teaching Award, College of Liberal Arts and Sciences, 1999
Distinguished Faculty Award, College of Liberal Arts and Sciences, 1998
Certificate of Appreciation, Disability Resources for Students, various
American Association for the Advancement of Science Fellow, 1996
Sheila Counce Lecture, Duke University Medical School, 1996
Thomas S. Hall Lecture, Washington University, 1996
Sarton Lecturer, AAAS/History of Science Society, 1996

Dibner Visiting Historian of Science Lecturer, History of Science Society, 1994-1995
Golden Key Outstanding Professor Award, 1992
Zebulon Pearce Quality Teaching Award, 1983

Grants and Fellowships:

NSF, "Understanding Agents of Scientific Change: the case of Embryo Research" (2007-2009; PI with Manfred Laubichler, Gary Marchant, and Daniel Sarewitz as co-PIs)
Howard Hughes Medical Institute (with Ronald Rutowski, PI) for Undergraduate Biology Education and Research (2006-2010)
ASU grants (with Manfred Laubichler) from Vice President for Research, School of Life Sciences, College of Liberal Arts and Sciences, and Institute for Humanities to support the Embryo Project
National Science Foundation (with Kristin Johnson), Postdoctoral Fellow 2004-2006
Greenwall Foundation, "Gordon Conference in Science and Technology Policy," 2004
NSF, "Gordon Conference in Science and Technology Policy," 2004
NSF (with Joan McGregor), "History, Philosophy, and Social Studies of Science in the Public Realm," Workshop, 2003-2004
Dibner Institute for the History of Science and Technology, (with John Beatty and James Collins)
History of Biology Seminar at the Marine Biological Laboratory, Woods Hole, MA, 1987-2006
Howard Hughes Medical Institute (James Collins, PI) for Undergraduate Biology Education and Research (1998-2002)
NSF, "History and Philosophy of 20th Century Developmental Biology" (1995-2000)
NSF (with Garland Allen and John Beatty), "History of Biology Laboratory" for Dibner History of Biology Seminar (1996-1998)
History of Science Society, Dibner Postdoctoral position for ASU (1996-1998)
NSF, "Workshop on Biology and Law" (1994-1995); Supplement (1995-1997)
ASU, ASH Grant, 1990-1991
NSF, "The Coming of Age of American Biology," 1988
ASU, CLAS Summer Grant, 1985, 1986, 1989
ASU, Travel Mini-Grant, 1985, 1986, 1989, 1990
NSF, "Editing the *Biological Lectures*," 1985
NSF, "Developmental Biology in America, Circa 1900" 1983-1984
ASU, Faculty Grant-in-Aid 1982, 1983
NSF, "The Development of an American Program in Embryology" 1981-1983
NSF, "Emergence and Acceptance of American Experimental Embryology" 1979-1980
Dickinson College Faculty Research Grants 1978, 1979, 1980
NSF Pre-doctoral Fellowship 1976
Josiah Macy Jr. Foundation Fellowship 1974-1978
Smithsonian Institution Predoctoral Internship 1974
Indiana University Departmental Assistantship 1973-1974
Indiana University Fellowship 1972-1973
Yale University Fellowship for study of history of art and German, Germany 1971

Publications:

Books:

Whose View of Life? Embryos, Cloning, and Stem Cells (Harvard University Press, 2003; paperback 2005)
Transforming Traditions in American Developmental Biology (Johns Hopkins University Press, 1991)
100 Years Exploring Life. An Autobiography of the Marine Biological Laboratory (Jones and Bartlett Press, 1989)

Edited Volumes:

Form and Function in Evo-Devo, with Manfred Laubichler (Cambridge University Press, in press for publication 2008)
From Embryology to Evo-Devo: a History of Evolutionary Development, with Manfred Laubichler, (MIT Press, Dibner Institute series, 2007)

Embryology at The Carnegie Institution of Washington Department of Embryology, A History of Development, Reproduction, and Genetics, with Marie Glitz and Garland Allen (Cambridge University Press, 2005)

Biology and Epistemology, with Richard Creath (Cambridge University Press, 2000), with introduction

Biology and the Foundations of Ethics, with Michael Ruse, (Cambridge University Press, 1999), with introduction

Crossing the Borderlands: Biology at Chicago, special issue of Perspectives on Science, with Gregg Mitman and Adele E. Clarke (Chicago: University of Chicago Press, 1993), with introduction

The Expansion of American Biology, with Keith Benson and Ronald Rainger, (Rutgers University Press, 1991)

The American Development of Biology, with Ronald Rainger and Keith Benson, (University of Pennsylvania Press, 1988); republished in paperback (Rutgers University Press, 1991)

Defining Biology. Lectures From the 1890s, (Harvard University Press, 1986), with introduction

Journal of the History of Biology, special issue, "Reflections on Ecology and Evolutionary Biology," with James Collins and John Beatty, (1986) v. 19 #2, with introduction

L. J. Blyakher's *History of Embryology in Russia* (Smithsonian Institution, 1982), with introduction

Articles:

"Regenerative Medicine in Historical Context," *Medicine Studies* (forthcoming 2008)

With Manfred Laubichler, "The Embryo Project: An integrated approach to history, practices, and social contexts of embryo research," *Annals of History and Philosophy of Biology* (forthcoming)

With Jason Robert, "What is a Healthy Embryo and How do We Know?," in Jeff Nisker, et al., editors, *The Healthy Embryo* (forthcoming)

"Research and Responsibility in Historical Context," in Susan Owen and Brian Sorrells, editors, *The Research Cloning Debate: Hope and Hype* (forthcoming)

With Mary Sunderland, Rachel Ankeny, and Jason Robert, "The Ethos and Ethics of Translation," *American Journal of Bioethics* (2008, with response to commentaries)

With Manfred Laubichler, "Evolution and Society," in Michael Ruse and John Travis, editors, *Companion to Evolution* (Harvard University Press, 2008)

Untangling Debates about Science and Religion," in Nathaniel Comfort, editor, *The Panda's Black Box: Opening up the Intelligent Design Controversy* (Johns Hopkins University Press, 2007), pp. 83-108.

With Manfred Laubichler, "Embryos, Cells, Genes, and Organisms. Reflections on the History of Evolutionary Developmental Biology," in Roger Sansom and Robert N. Brandon, editors, *Integrating Evolution and Development, From Theory to Practice* (MIT Press, 2007), pp. 1-24

"What is an Embryo, and How do we Know?," in Michael Ruse and David Hull, editors, *Cambridge Companion to Philosophy of Biology* (Cambridge: Cambridge University Press, 2007), pp. 324-341.

With Manfred Laubichler and William C. Aird, "The Endothelium in History," in William C. Aird, *The Endothelium: A Comprehensive Reference* (Cambridge University Press, 2007), pp. 5-21. And "Conclusion," pp. 1815-1816

"To Evo-Devo through Cells, Embryos, and Morphogenesis," in Laubichler and Maienschein, editors, *From Embryology to Evo-Devo: a History of Evolutionary Development* (MIT Press, 2007)

With Jason Robert and Manfred Laubichler, "Systems Biology and Stem Cell Biology," *Journal of Bioethical Inquiry* (2006): 19-31

"Introduction," in Jane Maienschein, Marie Glitz, and Garland Allen, editors, *Embryology at The Carnegie Institution of Washington Department of Embryology, A History of Development, Reproduction, and Genetics* (Cambridge University Press, 2005): 1-20

"Preformation and Epigenesis," *Stanford Encyclopedia of Philosophy* (refereed online encyclopedia, <http://plato.stanford.edu/>, 2005)

"The Path to Experimental Embryology" as "Dall'embriologia sperimentale alla biologia della sviluppo," *storia della scienza (Istituto Della Enciclopedia Italiana, 2004)*, VIII: 733-743

"Laboratories in Science Education: Understanding the History and Nature of Science," report prepared for the National Research Council Committee on High School Science Labs posted to: http://www7.nationalacademies.org/bose/HS_Labs_Resources.html (2004)

- “Embryology, Evolution, and Ernst [Mayr],” *Ludus Vitalis* (2004) 12: 237-245
- “Confidence Building: In What, for Whom, and Why?,” *Jurimetrics* (2003) 44: 153-160
- “Ontogeny, Anatomy, and the Problem of Homology: Carl Gegenbaur and the American Tradition of Cell Lineage Studies,” with Manfred Laubichler, *Theory in Biosciences* (2003) 122: 194-203. (translated into Russian by I. Y. Popov, for U. Hossfeld, et al., editors, *Evolutionary Morphology: From Carl Gegenbaur to Present* (Elsevier, 2004)
- “Biology and Society: Educating for the Future,” with Allison Whitmer and Ronald Rutowski, *Journal for the Art of Teaching* (2002) 9: 22-36
- “Innocent Reflections on Science and Technology Policy.” *Technology in Society* (2002) 24: 133-143
- “Advocating the History for Science,” in Garland Allen and Roy MacLeod, editors, *Science, History, and Social Activism* (Kluwer Academic Publishers, 2002), pp. 23-36
- “What’s in a Name: Embryos, Clones, and Stem Cells,” *American Journal of Bioethics* (2002) 2:11-18; on-line “target” article (2001), with responses
- “On Cloning: Advocating History of Biology in the Public Interest,” *Journal of the History of Biology* (2001) 34: 423-432
- “Darwinismus und Entwicklung,” in Uwe Hossfeld and Rainer Bromer, editors, *Darwinismus und/als Ideologie* (Verlag für Wissenschaft und Bildung, 2001): 93-107. Translated from English
- “Why Study History for Science?,” *Biology and Philosophy* (2000) 15: 339-348
- “Competing Epistemologies and Developmental Biology,” in *Biology and Epistemology*, Richard Creath and Jane Maienschein, editors, (Cambridge University Press, 2000), pp. 122-137
- “Diversity in American Biology,” *History and Philosophy of the Life Sciences* (1999) 21: 35-52
- “Libbie Hyman at the University of Chicago,” *American Museum Novitate* (1999): 25-32
- With James Collins and Daniel Strouse, “Biology and Law: Challenges of Adjudicating Competing Claims in a Democracy,” report for National Science Foundation, 1997. Revised version in *Jurimetrics* (1998): 151-181
- “The One and the Many: Epistemological Reflections on the Modern Human Origins Debate” in G. A. Clark and C. W. Willermet, eds, *Conceptual Issues in Modern Human Origins Research*, (Aldine de Gruyter Publishers, 1997), pp. 413-422
- “Pattern and Process in Early Studies of Arizona’s San Francisco Peaks,” *Bioscience* (1994): 479-485
- “It’s a Long Way from *Amphioxus*” Anton Dohrn and Late Nineteenth Century Debates about Vertebrate Origins” *History & Philosophy of the Life Sciences* (1994) 16: 465-478
- “Cutting Edges Cut Both Ways,” *Biology and Philosophy* (1994) 9: 1-24
- “Why Collaborate?,” *Journal of the History of Biology* (1993) 26: 167-183
- “The Gene,” in Evelyn Fox Keller and Elisabeth A. Lloyd, editors, *Keywords in Evolutionary Biology* (Harvard University Press, 1992), pp. 122-127
- “Epistemic Styles in German and American Embryology,” *Science and Context* (1991) 4:407-427.
- “The Origins of Entwicklungsmechanik,” in Scott Gilbert, editor, *A Conceptual History of Modern Developmental Biology* (Plenum Press, 1991), pp. 43-61
- “T. H. Morgan’s Regeneration, Epigenesis, and (W)holism,” in Charles Dinsmore, editor, *History of Regeneration Research* (Cambridge University Press, 1991), pp. 133-149
- “From Presentation to Representation in E. B. Wilson’s *The Cell*” *Biology and Philosophy* (1991) 6: 227-254
- “Cytology in 1924: Expansion and Collaboration,” in Keith Benson, et al., editors, *The American Expansion of Biology* (Rutgers University Press, 1991), pp. 23-51
- “Cell Theory and Development,” in G. N. Cantor, et al., eds., *Companion to the History of Modern Science* (Routledge, 1990), pp. 357-373
- “T. H. Morgan as Invertebrate Embryologist,” *International Journal of Invertebrate Reproduction and Development* (1989) 15: 1-6
- “Whitman at Chicago: Establishing a Chicago Style of Biology?,” in Rainger, Benson, and Maienschein, editors, *The American Development of Biology* (1988), pp. 151-182
- “Why Do Research at the Seashore?,” *American Zoologist* (1988) 28: 15-25
- “Arguments for Experimentation in Biology,” *PSA* 86 (1987): 180-195
- “H. N. Martin and W. K. Brooks: Exemplars for American Biology?” *American Zoologist* (1987)

27: 773-783

- “Heredity/Development in the United States, Circa 1900,” *History and Philosophy of the Life Sciences* (January 1987) 9: 77-91
- “Physiology, Biology, and the Advent of Physiological Morphology,” in *Physiology in the American Context, 1850-1940*, ed. Gerald L. Geison (Bethesda, Maryland: American Physiological Society, 1987), pp. 177-207
- “Preformation or New Formation -- or Neither or Both?” in *A History of Embryology*, T. J. Horder, et al., editors, (Cambridge University Press, 1985), pp. 73-108
- “History of Biology,” *Osiris*, special volume on “Historical Writing on American Science” (2nd Series, 1985) 1: 147-162
- “Agassiz, Hyatt, Whitman and the Birth of the M.B.L.,” *Biological Bulletin*, (June 1985) 168 Suppl: 26-34
- “First Impressions: American Students At Naples,” *Biological Bulletin*, (June 1985) 168 Suppl: 187-191
- “Early Struggles Over the M.B.L.'s Mission and Money,” *Biological Bulletin* (June 1985) 168 Suppl: 192-196
- “What Determines Sex?: A Study of Converging Approaches,” *Isis* (1984) 75: 457-480
- “Experimental Biology in Transition: Harrison's Embryology, 1895-1910,” *Studies in History of Biology* (1983) 6: 107-127
- “Don't Stop in Carlisle: Reactions to Philadelphia's 1793 Yellow Fever Epidemic,” *John and Mary's Journal* (1982): 3-16
- “Shifting Assumptions in American Biology: Embryology, 1890-1910,” *Journal of the History of Biology* (Spring 1981) 14: 89-113
- “Morphology and Modern Biology: Were the Americans in Revolt?” with Ronald Rainger and Keith Benson, *Journal of History of Biology* (Spring 1981) 14: 83-87
- “Cell Lineage, Ancestral Reminiscence, and the Biogenetic Law,” *Journal of the History of Biology* (1978) 11: 129-158

Essays, Editorials, and Reference Articles:

- With George Smith, “What Difference does History of Science Make Anyway?,” *Isis* (forthcoming 2008)
- With Manfred Laubichler and Andrea Loettgers, “How Can History of Science Matter to Scientists?,” *Isis* (forthcoming 2008)
- With Jason Robert, “Stem Cell Research,” *Dictionary of American History, Dynamic Reference* (forthcoming 2008)
- “Thomas Hunt Morgan,” *New Dictionary of Scientific Biography* (2008)
- With Richard Creath, “BODYWORLDS as Education and Humanism,” *American Journal of Bioethics* (2007) 7: 26-27
- With Manfred Laubichler, “Development,” *New Dictionary of History of Ideas* (Charles Scribners Sons, 2004)
- “Human Embryos and the Language of Scientific Research,” *American Journal of Bioethics* (2003) 4: 6-7
- “Understanding Science and its Implications ,” *Kansas Law Review* (2003) 51: 303-306
- “Thomas Hunt Morgan,” *Encyclopedia of Evolution* (2002)
- “Staffing Science Policy-Making,” *Science* (2000) 290:1501 (read into Congressional Record, Senate of the 106th Congress, December 15, 2000)
- “Old Wine in New Bottles,” *Nature* (2000) 407:21
- “Marine Biological Laboratory” and “Edmund Beecher Wilson” in *The History of Science in the United States: An Encyclopedia* (2000): pp. 1241-1245 and 2146-2151
- “Who's in Charge of the Gene Genie?,” *The World and I* (2000): 180-187
- “Toward Neuroetho-evo-devo-ecology: one View of the Mountain,” *International Society for Neuroethology Newsletter* (November 1999)
- With Keith Benson, Introduction, *The Establishment of Science in America*, Rutgers University Press (1999), pp. 1-6

With Undergraduate Students, "Commentary: To the Future -- Arguments for Scientific Literacy," *Science Communication* (1999) 21: 75-87

"The Value of Practicing Practical History," *Endeavour* (1999) 23: 3-4

"Science, Political Literacy and the 105th Congress," *AWIS Newsletter* (1999): 26-27

"Edwin Grant Conklin," (3:330-332); "Ross Granville Harrison," (10: 219-221); "Clarence Edwin McClung," (14:883-884); "Henry von Peters Wilson" (23:582-583); and "Charles Otis Whitman" (23:273-275), *American National Biography* (1999)

With Undergraduate Students, "Scientific Literacy," *Science* (1998): 917

"History and Philosophy of Science in Action," *History of Science Society Newsletter #4* (1998): 3

"Program Essay/AAAS 150th Anniversary Meeting, 1998

"Introduction to the MBL's Second Century: Jacques Loeb," in Robert Barlow, et al., editors, *Centennial Lectures* (Harvard University Press, 1993), pp. 1-4

"Oscar Riddle," and "Nettie Stevens," *Dictionary of Scientific Biography Supplement II* (1990): 736-738 and 867-869

"Neurobiology a Century Ago at the Marine Biological Laboratory, Woods Hole," *Trends in Neurosciences* (1990) 13: 399-401

"Evaluating Science Through History," *Columbia History of Science Newsletter* (1988): 2-4

"Alfred Huettnner," *Collecting Net* (August 1987): 4

"Pigeons, Visions, and An Ideal Station," *M.B.L. Science* (Summer 1985): 11-12

"Resources at the Marine Biological Laboratory," *Mendel Newsletter* (1984) 24: 4

"Crucial Experiment," "Development," "Developmental Mechanics," "Encapsulation," "Entelechy," "Epigenesis/Preformation," "Germ Layer Theory," "Induction," "Mosaic Theory of Development," "Metamorphosis," "Organizer," "Ovism/Animaculism," "Recombination," *Oxford Dictionary of the History of Science* (1981)

"C.O. Whitman at the M.B.L.," *Mendel Newsletter* (1976) 13:1-3

150+ Book Reviews in:

Annals of Science, Bioscience, British Journal for the History of Science, Choice, History and Philosophy of the Life Sciences, Isis, Journal of the History of Biology, Journal of the History of Medicine and Allied Sciences, Jurimetrics, Nature, Nature Cell Biology, Publishing Research Quarterly, Quarterly Review of Biology, Science, SHARP, Trends in Ecology and Evolutionary Biology, Victorian Studies

Professional Activities:

Unpublished Professional Presentations

"From Transplantation to Translational Stem Cell Research: Why History Matters for Knowing What Works," Duke University Philosophy Department Colloquium, 2008

"Embryology in History," University of Washington Medical Humanities and Ethics Series, 2008

"Embryos in Context," Washington University, 2008

"What is an Embryo and How do we Know?," Conference on the Healthy Embryo, University of Western Ontario, 2007

"What are Embryos: Why History Matters," University of Oklahoma, 2007

"Embryology in History," University of Vienna and the Konrad Lorenz Institute, 2007

"In the Beginning: Cloning as Transplantation," Max Planck Institute for the History of Science, Conference in the "Times of Cloning," 2007

"Where Biology Meets Society," all-day presentation with Jason Robert to Louisiana State University Law School and state judges, 2007

"From Transplantation to Translation: Stem Cells in History," Berkeley History of Science and Technology Colloquium Series, 2006

"The Development of the Model-Animal Paradigm in Experimental Biology," Sackler Symposium on "Neurosciences and the new Comparative Study of Human Nature," National Academy of Sciences, Irvine, 2006

- “Why Galen didn’t discover the Endothelium, but History Matters Anyway,” Harvard University Medical School, Vascular Biology Seminar Series, 2006
- “From Transplantation to Translation: Stem Cells in History,” Friday Evening Lecture, Marine Biological Laboratory, 2006
- “The Embryo Project: A Virtual Laboratory for Understanding Developmental Science and its Context,” Distinguished Women Scientists Lecture, University of Minnesota, 2006
- “From Transplantation to Translation: Stem Cells in History,” University of Minnesota, 2006
- “Embryos, Stem Cells, and Epistemology: how do we know what we know?,” Cal State Northridge Philosophy of Biology Conference Invited Lecture, 2006
- “Stem Cells in History,” AAAS Annual Meeting, 2006
- “Stem Cells, Values, and Society,” University of Denver, Bridges to the Future Distinguished Lecture Series, 2006
- “Embryos, Cloning, and Stem Cells in Context,” University of Wyoming Distinguished Lecture Series, 2005
- “Whose View of Life? Embryos, Cloning, and Stem Cells,” University Lecture Series, Carnegie Mellon University, 2005
- “Form and Function Start in the Egg,” Werkmeister Conference on Form and Function, Florida State University, 2005
- “Whose View of Life?,” The Social and Cultural Implications of New Biomedical Technologies Conference, University of Missouri-Columbia, 2005
- “Embryos, Stem Cells, and History: Oh My!,” University of Chicago Conceptual Foundations of Science Lecture Series, 2005
- “Publishing” and “Future Directions of Bioethics” panels at Future Directions in the History, Philosophy and Social Studies of Biology, San Francisco, 2004
- “Do the History of Science and Medicine Really Matter?” Beaumont Medical History Club, Yale University Medical School
- “Stem Cells at Yale before they were ‘stem cells’: Ross Harrison and the Embryological Tradition,” Yale University Fulton Lecture, 2004
- “The Social Life of Embryos,” University of British Columbia, 2004
- “Embryos at the United Nations: Competing Science, Competing Values,” International Science Workshop, Georgetown University, 2004
- “Embryos Through Times: Historical and Philosophical Reflections,” University of Helsinki, 2004
- “Embryos, Cloning, and Stem Cells in Perspective,” Georgia Tech Science and Technology Seminar, 2004
- “History of the Human Genome Project: How Many Helices do we need?,” Genome Canada Ethics, Law, and Society Conference, 2004
- “The Perils and Promise of Progress: DNA and the Human Genome,” Flathead Valley Community College Distinguished Lecturer Series, 2004
- “Understanding Life; Regulating Life,” Georgetown University, 2004
- “Embryos and Cloning in Perspective: The History of the Controversy,” Fred Hutchinson Cancer Research Center and University of Washington Forum on Science, Ethic, and Policy, 2004
- “Embryos Now and Then: Does the History Matter?,” UCSD Science and Technology Studies Colloquium Series, 2004
- “Jewish Biologists’ Views on Evolution,” response to session, Jewish Tradition and the Challenge of Evolution Conference, ASU, 2004
- “History of Biology Today,” Dibner Institute for the History of Science and Technology at MIT, 10th Anniversary Reunion, invited speaker, 2004
- “Re?defining Life: Reflections on Cloning, Stem Cells, and Genomics,” New York Academy of Sciences, 2003
- “Benchside Consultation: Developing a New Paradigm for Integrative Ethics and Biomedical Research?,” American Society for Bioethics and Humanities, 2003
- “Stem Cell History,” Plurally Potent – Conference on Stem Cell Terminology, Stanford Center for Bioethics, 2003

“History of Biology Today and for Tomorrow,” International Society for History, Philosophy, and Social Studies of Biology,” 2003
 “A Century of Stem Cells, Cloning, and Embryos,” North Carolina State University, 2003
 “Ethics, Policy, and Biosciences,” Susan T. and Charles E. Harris Visiting Lectureship, Cold Spring Harbor Laboratory, 2002
 “Stem Cells and Cloning: What’s the Fuss?,” Washington University, 2003
 “Form and Function Starts in the Egg,” Conference on Form and Function, Barcelona, 2003
 “Stem Cells, Cloning, and Embryos in the Public Eye,” Georgetown University, 2003
 “Defending Cells in Developmental Biology,” Dibner Institute Workshop, 2002
 “Re-defining Life: Historical and Philosophical Reflections on Cloning, Stem Cells, and Genomics,” New York Academy of Sciences, 2002
 “Defining Life,” Dibner Institute for the History of Science and Technology, 2002
 “Cells, Genes, Organisms, and Epistemology: Competing Strategies for Studying Life,” Reichenbach Conference, Washington University, 2001
 “How Should we Tell the Stories of Science?: Who Knows, Who Says, and Who Cares?,” Friends of Oak Ridge National Laboratory, 2001
 “From Embryology to Evo-Devo: Whatever Happened to Organisms?,” Philosophy and Biology: Yesterday, Today, and Tomorrow Conference, Florida State University, 2001
 “Promoting Interdisciplinary Thinking through Biology and Society,” Society for Integrative and Comparative Biology, 2001
 “On the Organism in Development and Heredity,” History of Science Society meeting, 2000
 “Embryology, Evolution, and Who Cares?: History of Science in the Public Interest,” University of Minnesota, 2000
 “History of Biology in the Public Interest: Embryology, Epistemology, and Every (Wo)man,” Notre Dame, Indiana University, Cornell, 2000
 “Working With Congress: Why Bother?,” AAAS Meeting, 2000
 “Reflecting on the University of the Future,” Society for Integrative and Comparative Biology, 2000
 “Background to Neuroethology: Who, What, When, Where, Why, and So What?,” Gordon Conference on Neuroethology, Oxford, 1999
 “Why Study History?,” Philosophical Problems in the Historiography of Science, Pittsburgh, 1998
 “Practical History: Beyond Social Context,” History of Science Society, 1998
 “Who’s Doing Good Science? -- Who Knows and Who Cares?,” George Washington University, and ASU Geology Department, 1998
 “Science in Congress, A Case of Competing Values,” National Research Council, 1998
 “Confessions of a Congressional Science Advisor: A Case of Competing Values,” ASU AWIS, 1998
 “Competing Epistemologies in Developmental Biology: HPS Visits Congress,” University of Maryland, 1998
 “To the Future: Arguments for Scientific Literacy,” with 15 undergraduate students, AAAS, 1998
 “In Defense of Organisms,” International Society for the History, Philosophy, and Social Studies of Biology, 1997
 “Why Molecules Aren’t Everything: Competing Views of Good Science,” keynote lecture for Molecular Biology Week, University of Missouri, Columbia, 1997
 “A Century of Embryological Debates: Who’s Doing Good Science?,” UCSD Science Studies, Colloquium Series, 1997
 “A Century of Debates About Development: Who’s Doing Good Science?,” Johns Hopkins University Philosophy Department Colloquium, 1997
 “A Century of Debates about Development: Who’s Doing Good Science?,” Harvard University, 1997
 “Making Choices in Embryology: Who’s Doing Good Science?” UCLA, 1997
 “A Century of Embryological Debates: What Should We Believe?,” Hall Lecture, Washington University, 1996
 “Diversity in American Biology, 1900-1940,” Russian Academy of Sciences and University of St. Petersburg, 1996

“Changing Concepts of Development: A History of Competing Epistemologies,” Cold Spring Harbor, 1996
 Sheila Counce Lecture in History of Cell and Developmental Biology, Duke University, 1996
 “Life on the Cutting Edge: Experimental Biology’s Century of Progress?,” Sarton Lecture, AAAS meeting, 1996
 “From Field to Lab: Who’s Doing Good Science?,” keynote address, Columbia History of Science Group, 1996
 “Competing Styles in Science: What Counts and Why in Developmental Biology,” and “Out of the Field and Into the Lab,” Texas Tech University, 1996
 “Revisiting American Biology Revisited,” comment on session, History of Science Society meeting, 1995
 “Changing Notions of Good Science (or what do History and Philosophy have to do with ‘real’ science?),” Botany Department Colloquium, Arizona State University, 1994
 “Embryology and Epistemology,” University of Chicago, Conceptual Foundations of Science Program, 1994
 “Reflections on the Development of Developmental Biology,” MIT-Mellon Conference, 1994
 “Cutting Edges Cut Both Ways: Why Biology Embraced Cutting Edges and at What Cost?” New York Academy of Sciences, 1994
 “Out of the Woods and Into the Laboratory,” University of Florida, Frontiers of Science Series, 1994
 “Styles of Biology,” International Society for History, Philosophy, and Social Studies of Biology, Brandeis, 1993
 “Beyond Theory and Experiment: Why Epistemology has Driven Development Biology,” Philosophy Colloquium on Evolutionary Patterns, University of Cincinnati, 1993
 “What Really Happened When T.H. Morgan Changed His Mind About Mendelism?,” workshop on “Biology in Action,” Radford University, 1993
 “The Marine Biological Laboratory: A Century of Challenges,” American Association for the Advancement of Science meeting, 1993
 “Which Came First: The Microscope or the Egg?,” Grinnell College, 1992
 “Libbie Hyman at Chicago,” American Society of Zoologists meeting, Atlanta, Georgia, 1991
 “Was There a Chicago Style of Biology?,” University of Chicago Centennial Conference, 1991
 “Cutting Edges Cut Both Ways: A Look at Biology at the Turn of the Century,” Minnesota Seminar in the History of Science and Technology, University of Minnesota, 1991
 “Cell and Developmental Biology at the Cutting Edge, circa 1900,” Mellon Workshop, MIT, 1991
 “Constructing Biological Knowledge through Collaboration,” introductory paper and comment, History of Science Society, 1991
 “On Constructing Biological Knowledge,” comment on session at University of Oklahoma Centennial Conference, “Representing and Understanding the Natural World,” 1991
 “The Professionalization of Botany and the Emergence of Modern Biology,” comments on History of Science Society session, 1988
 “Experimentation in Biology: A Revolutionary Advance?” and “Heredity/Development circa 1900: The Roots of Specialization,” University of California, Davis, History and Philosophy of Science Colloquium Series, 1987
 “The Coming of Age of Biology in America,” Stanford University History of Science Colloquium Series, 1987
 “Testing Theories of Scientific Change: Developmental Biology,” Conference on Testing Theories of Scientific Change, Blacksburg, Virginia, 1986
 “Heredity, Development, and the Emergence of American Biology,” Washington University Biology Seminar Series, 1986
 Columbia History of Science Group, comment on Frederick Churchill, “Transformation of Heredity,” 1986
 “Methods in History of Modern Biology,” Tremont Research Institute, San Francisco, 1985
 “From Francis Bacon to Francis Crick: The Rise of Experimental Science,” and “Heredity and Development: Unnatural American Divorce?” University of Colorado, Boulder, History and

Philosophy of Science Colloquium Series, 1985
 “Experimentation in American Biology,” Columbia History of Science Group, Seattle, 1985
 “Was Experimentation the Obvious Choice for American Biology?” AAAS Southwest Division meeting, 1985
 “20th Century Embryology and Genetics,” History of Science Society meeting, session chair, 1984
 “Archives for the Science Historian,” Marine Science Librarians' annual meeting, 1984
 “A Marine Laboratory for America: Early History of the M.B.L.,” Marine Biological Laboratory, 1984
 “The Search for a Science of Biology,” Harvard University, 1984; Virginia Polytechnic Institute and State University, 1984
 “The Changing Focus of Biology in America,” History of Science Society meeting, 1983
 “Problems of Sexual Development: Conflicting Approaches, 1891-1910,” AAAS national meeting, 1982
 “Shifting Assumptions in American Biology,” Princeton University History of Science Colloquium Series, 1981
 “American Biology Comes of Age,” Johns Hopkins University; Arizona State University Zoology Colloquium Series, 1981
 “American Embryology at the Turn of the Century: Evolution or Revolution?” Woods Hole History of Science Series, 1980
 “Problem-Solving and Theory Construction in Twentieth Century Science,” Philosophy of Science Association meeting, commenter 1980
 “Problems of Individual Development: Experimental Embryological Morphology,” History of Science Society meeting, 1979
 “Ross Harrison's Crucial Experiment,” Joint Atlantic Seminar for the History for Biology, 1978
 “Ross Harrison and the Origins of American Experimental Embryology,” History of Science Society meeting, 1976

Seminars, Conferences, and Meetings:

MBL-ASU History of Biology Seminar, (see Dibner) co-organizer 2007-present
 Integrated History and Philosophy of Science Conferences, Steering Committee, 2006-present
 “The Embryo Project,” ASU Library and IT Colloquium, 2008
 “Can Scientists do History,” Institute for Humanities Research Seminar, 2008
 ISHPSSB session organizer/speaker on cyberinfrastructure for biology and society, Exeter, UK, 2007
 Dibner Institute program of seminars and workshops at the Marine Biological Laboratory, 1989-2006, co-organizer
 James S. McDonnell Foundation Annual Meeting, Opening Session Moderator and Commentator, 2006
 Southwest Colloquium for the History and Philosophy of Science, Panelist, 2006
 Gordon Conference on New Frontiers in Science and Technology Policy, session chair 2000, Vice Chair 2002, Chair 2004, Nominating Committee Chair 2006
 “Forbidding Science?,” ASU Conference Co-Organizer and Opening Session Moderator, 2006
 “Darwinian Revolution Revisited: Whether, Whose, and So What?,” ISHPSSB special sessions, 2005
 “Biology and Society Program Development,” ISHPSSB meeting panel, 2005
 “Stem Cells, Embryos, and Cloning,” for “Genome Justice: Implications of New Genetics,” National Association of Women Judges, 2005
 Panel assessing Union of Concerned Scientists Reports on “Scientific Integrity in Policymaking” Philosophy of Science Association Meeting, 2004
 Federal Judicial Center In-Court Seminar for Federal Judges, “Where Biology Meets Society,” New Orleans, 2001; St. Louis, 2003; Oklahoma City, 2003; Minneapolis, 2003; Detroit 2004; Los Angeles 2005; Sacramento 2005; Harrisburg 2005.
 “Research Policy as an Agent of Change,” NSF workshop defining the Human and Social Dynamics Initiative, 2004
 “The Nature of Science,” Workshop on Committee on Secondary Laboratory Science, 2004
 Joint Atlantic Seminar in the History of Biology, roundtable discussion of the profession today, Yale, 2004.

“Hypes and Hopes of the Biomedical Revolution,” 9th Circuit Courts Meeting, 2003
 “Biology and Society Program,” International Society for History, Philosophy, and Social Studies of Biology Education Workshop, 2003
 “On Law and Science,” 10th Circuit Courts Meeting, 2002
 “Courage and Constraint in the Brave New World,” panelist, Complete Appellate Judge Workshop, 2002
 “Who Should Write the Story of Science?,” AAAS session co-organizer and chair, 2001
 “Women in Bioscience V: Taking the Lead,” Association for Women in Science Conference, panelist, San Diego, 2001
 Session Chair, Gordon Conference on “New Frontiers in Science and Technology Policy,” 2000
 Commenter, Judaism and Science Dialogue, ASU, 1999; panelist, 2000
 Panelist, “Ancient Remains and the Dispute over ‘Cultural Affiliation’: The Controversy over Kennewick Man,” in Symposium on Land, Culture, and Community, ASU Law School, 1999
 Presenter, “From Darwin to Dolly: Developments in the Biological Sciences in the 20th Century,” Federal Judiciary Center seminar on “The Basic Issues of Science,” 1998 and 1999
 Participant, “Consultation on Science and Religion,” National Cathedral College of Preachers, organized by AAAS and National Research Council, 1998
 Organizer, “Advocating Scientific Literacy: A History of the Future,” AAAS annual meeting, 1998
 Organizer, “Biology and Law: What Should We Believe?,” AAAS, 1997
 Chair, Summary Session, Marshall Peace Conference, 1996
 Keynote address at Columbia History of Science Society meeting, Friday Harbor Laboratory, 1996
 Commenter at Popper Conference and co-coordinator of workshop on using history to teach biology, Oregon State University, 1995
 “History of Biology,” summer course at the Marine Biological Laboratory, 1987, 1989, co-director M.B.L. Lecture Series, funded by Massachusetts Foundation for the Humanities and Public Policy, co-director, 1986, 1987
 “Evolution and Ecology,” Arizona State University, conference co-organizer, 1985
 History and Philosophy of Science Colloquium Series, Arizona State University, co-coordinator, 1981-1983, 1984-1986
 History and Philosophy of Biology Conference, Denison, Ohio, co-organizer, workshop and plenary session leader, 1984-1986
 Seminar on Jonathan Schell's Fate of the Earth, sponsored by Arizona Humanities Council; public presentation, Tucson Public Library, 1983
 “Culture, Science, and Values,” faculty seminar, freshman seminar, and summer intercollegiate workshop, sponsored by National Endowment for the Humanities, consultant, 1980
 “Science, Society, and Self,” freshman seminar sponsored by the American Association of Colleges, Dickinson College, co-organizer, 1979
 “Growth of Science in Society”: faculty workshop and freshman seminar sponsored by National Endowment for the Humanities, Dickinson College, co-organizer, 1979

Public Outreach:

“On Stem Cells and Regenerative Medicine,” Achievement Rewards for College Students lunch meeting, 2008
 “Stem Cells and the Promises of Regenerative Medicine,” Jewish Federation of Phoenix, 2007
 With Jason Robert, “Cloning, Stem Cells, and Society,” Rio Verde Lecture Series, 2007
 “Prelude to BODYWORLDS. A History of Anatomical Representation,” Arizona Science Center, 2007
 “Rachelle Hollander,” Retirement Session, AAAS, 2006
 “Stem Cells, Society, and Law,” panel presentation at Arizona Science Center, 2005
 “Embryos and Society,” Sun City Engineers, 2005
 ASU President’s Community Enrichment Program, 4-6 week Courses, Seminars, Lectures, 1998-present
 “Careers in Science Policy,” Panel, AAAS meeting, 2003
 “History of Science and Science Policy,” Workshop, History of Science Society, 2002
 “Genes, Cloning, and Stem Cells: Why Science is such Fun,” ASU Parents Weekend Lecture, 2001

“Cloning, Stem Cells and Such: Who Knows What We’re Talking About?,” Law and Science Student Association, 2001; Phoenix Phi Beta Kappa Lecture, 2000
 “Evidence For and Against,” in “Teaching Evolution Effectively in a Creationist World,” public forum Society for Integrative and Comparative Biology meeting, 2001
 “Science and Scientists, Policy and Politics: Who Knows, Who Says, and Who Cares?,” Arizona Department of Agriculture, 2001
 Interview with US News and World Report about evolution and creation issues in education, 1999
 “Building Bridges From the Desert to the Hill: An Interview with Dr. Jane Maienschein,” *Research!America* Newsletter (January, 1999): 4, 6
 “Science Friday” NPR discussion of “Unanswered Questions in Science,” 1999
 Discussion with Congressman Matt Salmon’s High Tech Advisory Committee, 1998
 With Ken Goldstein, Dean’s Council, on Washington Program, 1998
 With James Collins, Saturday Scholars Session, 1997
 Southwest Center for Environmental Education, exhibit consultant, 1996-1997
 History of Cold Spring Harbor Science project, Cold Spring Harbor Press, 1996
 History of Cell Biology, with William Bechtel, 1995-1996
 Science and Context Curriculum Project, University of Puget Sound, 1995
 “Exploring the Nuclear Age through the Arts and Humanities,” chair for panel, Scottsdale Center for the Arts, 1995
 “Visits with 2-3 lectures as Dibner Visiting Historian to: Mesa University, 1994; University of Western Florida, 1994; Maryville College, 1995; St. Michael’s College, 1995
 Biology in Action Workshop, Radford University, 1993
 “Animal Rights, Human Experimentation, and Other Problems in the History of Biology,” GTE Lecture, Dickinson College, 1987
 “The Incorporation of American Medicine,” A.E.D. (pre-medical honorary society) lecture, Arizona State University, 1985
 “The Rise of Experimental Science,” discussion for Arizona State University Library Associates, 1985
 History of Genetics Project, Virginia Technological Institute and State University, 1984
 “Technology and Society,” Salt River Project Executive Board Colloquium, 1982
 “Humanistic Perspectives on Biogenetic Engineering,” Tucson Public Library, 1982

Editorial:

American National Biography, Associate Editor, 1989-2000
Annals of the History and Philosophy of Biology, Editorial Board, 2006-present
Biology and Philosophy, Associate Editor, 1993-present
Biomedical Discovery and Collaboration, Editorial Board, 2006-present
 Cambridge University Press Studies in the Philosophy of Biology, Advisory Board, 1993-present
History of Scientific Thought (Gale Publishers), Editorial Advisory Committee, 2005-2007
History and Philosophy of the Life Sciences, Editorial Board, 1989-2006
Journal of Experimental Zoology, Part B, Editorial Board, 2006-present
Journal of Biomedical Discovery and Collaboration, Editorial Board, 2006-present
Journal of the History of Biology, co-editor with Garland Allen, 1998-2006; Editorial Board 1991-1998; Book Review Board, 1985-1998
Mendel Newsletter, Editorial Board, 1990-2004
New Dictionary of Scientific Biography, Editorial Committee, 2004-2008
Science Communication, Editorial Board, 2007-present

Referee:

American Journal of Bioethics, *American Journal of Medical Genetics*, *American Scientist*, *Biological Bulletin*, *Biology and Philosophy*, *Bioscience*, *Book Research Quarterly*, *Cell Stem Cell*, *Evolution and Development*, *The Historian*, *Isis*, *Journal of Experimental Zoology*, *Journal of the History of Biology*, *Jurimetrics*, *Nature*, *Nature Reviews Molecular & Cell Biology*, *Philosophy of Science*, *Quarterly*

Review of Biology, Science, Science Communication, Science & Engineering Ethics, Social Studies of Science, Synthese, Victorian Studies, Cambridge University Press, Harvard University Press, The Johns Hopkins University Press, Kluwer Publishing Company, Macmillan Publishing Company, North Carolina University Press, Oxford University Press, Princeton University Press, Rice University Press, Stanford University Press, State University of New York Press, University of California Press, University of Chicago Press, University of Washington Press, Yale University Press, Alaska Epscor, Austrian Science Foundation, Fulbright Committee, Hong Kong Research Foundation, Konrad Lorenz Institute, South Africa Research Council, National Endowment for the Humanities, National Science Foundation, University of Oslo Research Committee, Wellcome Foundation

Professional Affiliations:

American Association for the Advancement of Science (History Committee 1996-1998; Program Committee 1996-200; Section L: Nominating Committee, 1986-1989, Chair 1988/89; Council 1991-1994 and 1995-1996; Committee on Council Affairs 1992-1994; Section Chair Elect, 1993-1994; Section Chair 1994-1995; Section Member at Large, 2002-2006)

American Institute for Biological Sciences (Awards Committee, 2005-2008)

American Society for Bioethics and Humanities

Arizona Arts, Science, and Technology Academy, Founding Fellow (Treasurer, 2005-2006, Board 2006-2008)

Association for Women in Science (Councilor, 1999-2000; 2006-2008)

History of Science Society (Finance Committee, 1985-1993, Budget Subcommittee Chair; Committee on the National Lecture Series, 1985-1987; Council, 1987-1989 and 1997-1999; Watson Davis Prize Committee, 1987-1988, Chair 1988; Committee on Research and the Professions, 1987-1989; and 1998-2000; Planning Committee, 1988-1989; Nominating Committee 1988; Vice President (2006-2007), President (2008-2009)

History of Science in America (Steering Committee, 1985-1986)

International Centre for Environmental and Bioethics (2007-present)

International Society for the History, Philosophy, and Social Studies of Biology (President, 1989-1991, Nominating Committee (chair), 1991-1993; Council 2001-2003; Operations Committee 2003-2005)

Philosophy of Science Association (Governing Board 1995-1998)

Marine Biological Laboratory Corporation

Sigma Xi

Society of Integrative and Comparative Biology (Nominating Committee, History and Philosophy of Biology Division, 1986, 1989, Division Chair and Executive Council 1995-1998)

Society for Developmental Biology

Service:

National:

National Science Foundation panel, 2007

National Research Council Committee, Conceptual Basis of Biological Sciences for the 21st Century, 2006-2007

National Science Foundation panel, 2005-2008

National Science Foundation, Workshop on Social Organization of Science and Technology Policy, 2006

National Science Foundation, Graduate Fellowships Panel, 2006

Vice-chair, then chair, for Gordon Conference, "New Frontiers in Science and Technology Policy," (2000-2004)

National Science Foundation Directorate Advisory Committee, Social, Behavioral, and Economic Sciences, (1994-1997; chair 1997-1999)

Fulbright Scholar Program (selection committee, 1993-1997)

National Science Foundation (postdoctoral fellowship panel; 1988, research training grant panel; 1990, fellowship panel; 1991-1994; IGERT panel; 1998; advisory panel for Science and Engineering Indicators program)

MIT-Mellon Project on the History and Social Study of the Life Sciences (1990-1995)
National Endowment for the Humanities (panel; 1989 and 1998)
National Academy of Sciences (member, study committee on History and Philosophy of Science, 1986)

State of Arizona:

Department of Education, Science Standards Review Committee (designated spokesman) and ongoing review of Evolution Standards

University:

Regents' Professor Nomination Committee, 2007-2008
Provost's Award Selection Committee, 2007
Honors Council, 1996-present; chair 1999-2002
Parents Association Professor of the Year Selection Committee, 2001 (chair) – 2006
University Accreditation Team, 2001-2002
CLAS Dean Search Committee, 2001
Lincoln Center for Ethics, Chair Search Committee, 1999-2000
Intellectual Property Committee, 1996-1999
Science, Mathematics, Engineering, and Technology Education Planning Committee, 1996-1999
Strategic Planning Committee, 1997-1998
University Club Board, 1995-1998
Faculty Development Review Committee, 1995-1996
Research and Scholarship Task Force, President's University of the Next Century Project, 1995-1996
Southwest Center for Education and the Natural Environment (for Natural History and education).
(Board Member 1993-2000; Executive Committee 1994-1995; Consultant on grants, 1995-1997)
Regents' Professor Nominating Committee, 1993-1996 (chair 1993-94)
Self-Study Committee on Quality and Diversity, 1992-1993
Quality and Diversity Assessment Committee, 1993
German Transition Committee, 1991-1993
Search Committee for Liberal Arts and Sciences Dean, 1989/1990
Graduate Humanities Committee, 1982-1986, 1988-1991 (grant review panel 1989, 1990)
Animal Use and Care Committee, 1986/87
Faculty Grant-in-Aid Review Subcommittee, 1985

College:

Reorganization of the Life Sciences Steering Committee, Chair, 2002-2003
Scholar-Citizen Small Grants Program, 1998-2004, chair, 1998-2002
CLAS Associate Dean Search Committee, 2001
Co-organizer, ASU-in-Washington Program, 1997-1999
Interdisciplinary Programs Committee, 1996-1997
Planning Committee, 1991, 1993-1995
College Research Awards Committee, 1989-1992
Quality of Instruction Committee, 1988-1991
Search Committee for Associate Dean of Research, 1985
Committee on Undergraduate Humanities, 1982/83
Arizona Center for Medieval and Renaissance Studies, Search Committee, 1983, 1985

School of Life Sciences:

Faculty Leader, Human Dimensions Faculty, 2003-2009
Director, Center for Biology and Society, 2003-present
Executive Committee, 2003-2009
Search Committee, Philosophy of Biology, 2004-2005; 2005-2006
Planning Committee, 2003-2004
Search Committee, Bioethics, 2003-2004

Department -- Philosophy:

Search Committee, 1982 (chair), 1985/86, 1988/89 (chair), 1989/90 (chair), 1990/91, 2000-2001 (chair)
Advisory Committee 1996-1997, 1999-2000
Chair, 1991-1996 (sabbatical Fall 1994)
Undergraduate Advisor, 1988-1991
Decennial Review Committee, 1988/89
Merit Evaluation Committee, Chair, 1986, 1989
Undergraduate Review Committee, Chair, 1986
Computer Representative, 1985-1990
Teaching Evaluation Committee, 1985
Ph.D. Committee, 1985
Undergraduate Committee, 1982-1985; 1996/97; 2001
Graduate Committee, 1981/82

Department -- Biology:

Undergraduate Programs Committee, 2001, 2003
Biology and Society Program Director, 1995-1997 and 1999-present
Hughes Program Advisory Committee, 1992-present
UBEP (Undergraduate Biology Education Program), Faculty Advisor, 1999
Biology & Society Search Committee, 1997-1998
Biology & Society Search Committee, chair, 1994-1995
Undergraduate Curriculum Committee, 1990-1994; 1996-1997
Search Committee, 1990-1991

Student Advising

Over 30 Honors Projects and Theses Directed to Completion (last 5 years)
3 Masters Theses Directed to Completion (3 in process)
2 Ph.D.s Directed to Completion (3 in process)
4 Postdoctoral Fellows, supported by NSF and the Dibner Foundation