

Curriculum Vitae

Robert J. Richards

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Married: Wife, Barbara

US Citizen, Nov. 14, 1950

Advanced Degrees:

Ph.D., History of Science (The University of Chicago)
M.A., Biological Psychology (The University of Nebraska)
Ph.D., Philosophy (St. Louis University)

Appointments at The University of Chicago:

Morris Fishbein Professor of the History of Science and Medicine, 2004

Professor, 1991-
(Associate Professor, 1984-91; Assistant Professor, 1981-84)
Department of History
Conceptual and Historical Studies of Science
Department of Psychology
Department of Philosophy

Director, Fishbein Center for the History of Science, 1992-
Chair, Conceptual and Historical Studies of Science, 1984-94, 1998-1999, 2002-2003,
2005-2006, 2008-2009.
Director, B.A. Program in History, Philosophy, and Social
Studies of Science and Medicine, 1982-

Visiting Teaching:

Department of History of Science, Harvard University, Spring, 1983

Grinnell College, Mellon Professor, fall, 2007.

Honors:

Simon Guggenheim Memorial Fellowship, 2004-2005
Ryerson Memorial Lecturer, University of Chicago, 2005
The Morris Fishbein Chair in the History of Science and Medicine, 2004
The University of Chicago Award for Excellence in Graduate Student Teaching, 1995
The Llewellyn John and Harriet Manchester Quantrell Award for Excellence in Undergraduate Teaching, 1982
The Laing Prize, University of Chicago Press, for *The Romantic Conception of Life*, 2003
Pfizer Prize of the History of Science Society for the best book in the previous three years in history of science, 1988; give for *Darwin and the Emergence of Evolutionary Theories of Mind and Behavior*
Award of the International BioPhilosophy Forum (Belgium) for *Darwin and the Emergence*, 1989.
Fidia Lecturer, Harvard University, 1989.

Research Fellowships and Grants:

Simon Guggenheim Memorial Fellowship, 2004-2005
National Science Foundation Senior Research Fellowship, 2004-2005
Senior Fellow, Max Planck Institut für Wissenschaftsgeschichte, Berlin (2000)
Dibner Research Fellow, at the Dibner Institute, M.I.T. (1995-1996)
Fellow, Stuttgart Seminar in Cultural Studies (1995)
National Endowment for the Humanities, Interpretative Research (1989-1993)
National Science Foundation (1989-1992)
IREX (International Research and Exchanges Board), 1988
Social Sciences Research Grants, University of Chicago, 1988
Center for Advanced Study in the Behavioral Sciences, Stanford California (1986)
Andrew Mellon Faculty Fellowship, Harvard University (1982-1983)
National Science Foundation (1981-1983)
American Philosophical Society (1981-1982)
National Institutes of Health (1980-1982)
Spencer Foundation Seed Grant (1979-1980)

Robert J. Richards

Current Research, Publications, and Papers

Current Research:

Darwin's Long Argument: A Historical and Philosophical Commentary on the Origin of Species, new project.

Books:

The Tragic Sense of Life: Ernst Haeckel and the Struggle over Evolutionary Thought (Chicago: University of Chicago Press, 2008); 571 pp.

The Romantic Conception of Life: Science and Philosophy in the Age of Goethe (Chicago: University of Chicago Press, 2002). 606 pp. (Winner of the University of Chicago Press Laing Prize, 2004). Paper back edition, 2004.

The Meaning of Evolution: the Morphological Construction and Ideological Reconstruction of Darwin's Theory (Chicago: University of Chicago Press, 1992; paperback, 1993). 203 pp. Spanish language edition, published by Alianza, 1998.

Darwin and the Emergence of Evolutionary Theories of Mind and Behavior (Chicago: University of Chicago Press, 1987; paperback, 1989), 700 pp. (Winner of the 1988 Pfizer Prize awarded by the History of Science Society for the best book in history of science; and the prize of the Biophilosophy Form, 1989)

Selections reprinted in:

Science and the Quest for Reality, ed. A. Tauber (New York: Macmillan, 1997)

Epistemologia Evolucionista, ed. S. Martinez (Mexico City: Paidos, 1997)

Darwinian Heretics, edited with Abigail Lustig and Michael Ruse (Cambridge: Cambridge University Press, 2004)

Cambridge Companion to Darwin's Origin of Species, edited with Michael Ruse (Cambridge: Cambridge University Press, 2008).

Forthcoming Articles:

"Darwin's Place in the History of Biology—a Re-evaluation," *Proceedings of the National Academy of Science*, forthcoming in 2009.

"The Tragic Sense of Ernst Haeckel: His Scientific and Artistic Struggles," Forthcoming (2009) in catalogue of the exhibition "Darwin – Art and the Search for Origins," Shirn Kunsthalle, Frankfurt, Germany

.

Published Articles:

"Myth: That Darwin and Haeckel were Complicit in Nazi Biology," in *Galileo Goes to Jail and Other Myths about Science and Religion*, ed. Ronald L. Numbers (Cambridge: Harvard University Press, 2009).

"Haeckel's Embryos: Fraud Not Proven," *Biology and Philosophy*, 24 (2009): 147-154.

"Karl Ernst von Baer," in *Evolution, the First Four Billion Years*, ed. Michael Ruse (Cambridge: Harvard University Press, 2008).

"Ernst Haeckel," in *Evolution, the First Four Billion Years*, ed. Michael Ruse (Cambridge: Harvard University Press, 2008).

"Darwin's Theory of Natural Selection and Its Moral Purpose," *Cambridge Companion to Darwin's Origin of Species*, eds. Robert J. Richards and Michael Ruse (Cambridge: Cambridge University Press, 2008).

"The Moral Grammar of Narratives in History of Biology—the Case of Haeckel and Nazi Biology," *Cambridge Companion to the History and Philosophy of Biology* (Cambridge: Cambridge University Press, 2007).

"Ernst Haeckel's Alleged Anti-Semitism and Contributions to Nazi Biology," *Biological Theory* 2 (Winter, 2007): 97-103.

"Ernst Haeckel and the Struggles over Evolution and Religion," *Annals of the History and Philosophy of Biology* 2 (2007).

"Nature is the Poetry of Mind, or How Schelling Solved Goethe's Kantian Problems," in Michael Friedman and Alfred Nordman (eds.), *Kant and the Sciences* (Boston: MIT Press, 2006).

"The Aesthetic and Morphological Foundations of Ernst Haeckel's Evolutionary Project," in Mary Kemperink and Patrick Dassen (eds.), *The Many Faces of Evolution in Europe, 1860-1914* (Amsterdam: Peeters, 2005), pp. 1-16.

"Darwin's Metaphysics of Mind," in *Darwin and Metaphysics*, ed. Vittorio Hoesle (Notre Dame: Notre Dame University Press, 2005), pp. 166-180.

"The Relation of Spencer's Evolutionary Theory to Darwin's," in Greta Jones and Robert Peel (eds.), *Herbert Spencer: The Intellectual Legacy* (London: The Galton Institute, 2004), pp. 17-36.

"Did Friedrich Schelling Kill Auguste Böhmer and Does it Matter? Or, the Role of Biography in Intellectual History," in *Biography and Historical Analysis*, ed. Lloyd Ambrosius (Lincoln: University of Nebraska Press, 2004)

"Michael Ruse's Design for Living," *Biology and Philosophy*, 37 (2004): 25-38.

"If This be Heresy: Haeckel's Conversion to Darwinism," in Abigail Lusting, Robert J. Richards, and Michael Ruse (eds.), *Darwinian Heretics* (Cambridge: Cambridge University Press, 2004).

"The Evolution of Mind, Behavior, and Emotions," in Jonathan Hodge and Gregory Radick (eds.), *Cambridge Companion to Darwin* (Cambridge: Cambridge University Press, 2003), pp. 92-115.

"The Erotic Authority of Nature: Nature, Science, and the Female during Goethe's Italian Journey," in *The Moral Authority of Nature*, eds. Lorraine Daston and Fernando Vidal (Chicago: University of Chicago Press, 2003), pp. 127-54.

"Historiography and Cultural Studies of Nineteenth-Century Biology," in David Cahan (ed.), *From Natural Philosophy to the Sciences: Historiography of Nineteenth-Century Science* (Chicago: University of Chicago Press, 2003)

"Race," *Oxford Companion to the History of Modern Science*, ed. John Heilbron (Oxford: University of Oxford Press, 2002)

"The Linguistic Creation of Man: Charles Darwin, August Schleicher, Ernst Haeckel, and the Missing Link in 19th-Century Evolutionary Theory," in *Experimenting in Tongues: Studies in Science and Language*, ed. Matthias Doerres (Stanford: Stanford University Press, 2002)

"Psychology as a Humanism," *Journal of the History of the Behavioral Sciences*, 37 (2001): 61-66.

"Kant and Blumenbach on the Bildungstrieb: A Historical Misunderstanding," *Studies in the History and Philosophy of Biology and Biomedical Sciences*, 31(2000): 11-32

"The Epistemology of Historical Interpretation: Progressivity and Recapitulation in Darwin's Theory in *Epistemology and Biology*, eds. Richard Creath and Jane Maienschein (Cambridge: Cambridge University Press, 1999), pp.64-90.

"The Nature and Necessity of Cultural History of Science, *The Modern Schoolman* 76 (1999).

"Darwin's Romantic Biology, the Foundation of his Evolutionary Ethics," in *Biology and the Foundation of Ethics*, ed. Jane Maienschein and Michael Ruse (Cambridge: Cambridge University Press, 1999), pp. 113-53. (A briefer version of this article has been distributed as the Stiernotte Lecture for 1997).

"Charles Darwin *The MIT Encyclopedia of the Cognitive Sciences* (Cambridge: MIT Press, 1999)

"Rhapsodies on a Cat and Piano, or Johann Christian Reil and the Foundations of Romantic Psychiatry," *Critical Inquiry* 24, no. 3 (spring, 1998): 700-736.

"The Darwinian Justification of Altruism, *Acta Universitatis Upsaliensis (Studies in Bioethics and Research Ethics)* 3 (1998): 37-50.

"Theological Foundations of Darwin's Theory of Evolution," in *Science in Context*, eds. Karen Parshall and Paul Theerman, (Rutgers University Press, 1996).

"Arguments in a Sartorial Mode, or the Asymmetries of History and Philosophy of Science," in *Proceedings of the Philosophy of Science Association 1992*, vol. 2, eds. M. Forbes and D. Hull (1994)

"Resistance to Constructed Belief," in *Questions of Evidence*, eds. J. Chandler, A. Davidson, and H. Harootunian (Chicago: University of Chicago Press, 1994)

"Ideology and the History of Science," in *Biology and Philosophy*, 8 (1993): 103-108

"Birth, Death, and Resurrection of Evolutionary Ethics," in *Evolutionary Ethics*, ed. Matthew Nitecki (New York: SUNY, 1993). reprinted as "Evolutionäre Ethik revidiert und gerechtfertigt," in *Evolution und Ethik*, ed. Kurt Bayertz (Stuttgart: Reclam Verlag, 1993), pp. 168-98.

"Evolution," in *Keywords in Evolutionary Biology*, edited by Evelyn Fox Keller and Elisabeth Lloyd. (Cambridge Mass.: Harvard University Press, 1992), pp. 95-105. "The Structure of Narrative Explanation in History and Science," in *History and Evolution*, ed. M. Nitecki and D. Nitecki (New York: State University of New York Press, 1992), pp. 19-54.

"Dutch Objections to Evolutionary Ethics," *Biology and Philosophy*, 4 (1989): 331-43.

"The Moral Foundations of the Idea of Evolutionary Progress: Darwin, Spencer, and the Neo-Darwinians," in *Evolutionary Progress*, ed. Matthew Nitecki (Chicago: University of Chicago Press, 1988); reprinted in *Oxford Readings in Philosophy: The Philosophy of Biology*, ed. D. Hull and M. Ruse (Oxford: Oxford University Press, 1998).

"A Defense of Evolutionary Ethics," with replies by Cela-Conde, Gewirth, Hughes, Thomas, and Trigg, and rejoinder "Justification through Biological Faith," *Biology and Philosophy* 1, no. 3 (1986). Reprinted in *Issues in Evolutionary Ethics*, ed. Paul Thompson (Albany, N.Y.: State University of New York Press, 1995).

"William James's Theory of Mental Evolution," *Contributions to a History of Developmental Psychology*, eds. G. Eckardt and W. Bringmann (Berlin: Mouton, 1985).

"Why Darwin Delayed, or Interesting Problems and Models in the History of Science," *Journal of the History of Behavioral Sciences* 19 (1983): 45-53; reprinted in *A History of Psychology: Original Sources and Contemporary Research*, ed. L. Benjamin, 2nd ed. (New York: McGraw-Hill, 1998).

"The Personal Equation in Science: William James's Psychological and Moral Uses of Darwinian Theory," *A William James Renaissance*, ed. M. Schwehn, *Harvard Library Bulletin* (special issue), 30 (1982): 387-425.

"Darwin and the Biologizing of Moral Behavior," *The Problematic Science: Psychology in Nineteenth-Century Thought*, eds W. Woodward and M. Ash (New York: Praeger, 1982), pp. 43-64.

"Emergence of Evolutionary Biology of Behavior in the Early Nineteenth Century," *British Journal for the History of Science* 15 (1982): 241-280.

"Instinct and Intelligence in British Natural Theology: Some Contributions to Darwin's Theory of the Evolution of Behavior," *Journal of the History of Biology* 14 (1981): 193-230.

"Habit," "Imitation," "Instinct," "Rational Soul" --articles for the *Dictionary of the History of Science*, eds. W. Bynum, R. Porter, E.J. Browne (London: Macmillan; Princeton: Princeton University Press, 1981).

"Natural Selection and Other Models in the Historiography of Science," *Scientific Inquiry and the Social Sciences: a Volume in Honor of Donald T. Campbell*, eds. M. Brewer and B. Collins (San Francisco: Jossey-Bass, 1981), pp. 37-76. Reprinted in *Science and the Quest for Reality*, ed. Alfred Tauber (London: Macmillan Press, 1997), pp. 203-30.

"Christian Wolff's Prolegomena to Empirical and Rational Psychology: Translation and Commentary," *Proceedings of the American Philosophical Society* 124 (1980): 227-239.

"Wundt's Early Theories of Cognitive Evolution and their Relation to Darwinian Biopsychology," *Wundt Studies*, eds. W. Bringmann and R. Tweney (Toronto, Goettingen, Zurich: Hogrefe, 1980): 42-70.

"Influence of Sensationalist Tradition on Early Theories of the Evolution of Behavior," *Journal of the History of Ideas* 40 (1979): 85-105.

"The Natural Selection Model of Conceptual Evolution," *Philosophy of Science* 44 (1977): 494-501.

"Lloyd Morgan's Theory of Instinct: from Darwinism to Neo-Darwinism," *Journal of the History of the Behavioral Sciences* 13 (1977): 12-32.

"James Gibson's Passive Theory of Perception: a Rejection of the Doctrine of Specific Nerve Energies," *Philosophy and Phenomenological Research* 37 (1976): 218-233.

"The Innate and the Learned: the Evolution of Konrad Lorenz's Theory of Instinct," *Philosophy of the Social Sciences* 4 (1974): 111-133.

"Sellars' Kantian Perspective on the Compatibility of Freedom and Determinism," *Southern Journal of Philosophy* 11 (1973): 228-236.

"Substantive and Methodological Teleology in Aristotle and Some Logical Empiricists," *Thomist* 37 (1973): 702-733.

"Materialism and Natural Events in Dewey's Developing Thought," *Journal of the History of Philosophy* 10 (1972): 55-69.

Reviews:

General Journals:

"Recovering the Past: Review of Daniel Lord Smail's *On Deep History and the Brain*," *American Scientist*, 96, no. 5 (September-October, 2008)

"Bad Seeds: Review of Barbara Oakley's *Evil Genes: Why Rome Fell, Hitler Rose, Enron Failed, and My Sister Stole My Mother's Boyfriend*," *American Scientist*, 96, no. 2 (March-April, 2008).

"Reason and Reverence: Review of Francis Collins's *The Language of God: A Scientist Presents Evidence for Belief*," *American Scientist* 95, no. 2 (March-April, 2007).

"And Gladly Wolde He Lerne and Gladly Teche: Review of Richard Dawkins' *Ancestor's Tale*," *American Scientist*, 92, no. 2 (March-April, 2005).

"'Why We Do It': Sex and the Single Cell," review of Niles Eldredge's "Why We Do It: Rethinking Sex and the Selfish Gene," *New York Times Book Review* (Sunday, June 20, 2004).

"The Evolutionary War: Review of Steven Pinker's *Blank Slate: The Modern Denial of Human Nature*," *New York Times Book Review* (Sunday, October 13, 2002), p. 9.

"Pulp Nonfiction: Commotion over Evolution Before Darwin: Review of James Secord's *Victorian Sensation*," *American Scientist* 89 (September-October, 2001), pp. 454-56.

"You Can't Get There From Here: Review of Henry Gee's *In Search of Deep Time*." *New York Times Book Review* (Sunday, February 27, 2000), p. 32.

"Designing Man: Review of Ian Tattersall's *Becoming Human: Evolution and Human Uniqueness*, *New York Times Book Review* (Sunday, April 26, 1998), p. 30.

"Neanderthals Need Not Apply: Review of C. Stringer and R. McKie's *African Exodus: the Origins of Modern Humanity*, *New York Times Book Review* (Sunday, August 17, 1997), p. 10.

"Origins of Darwin: Review of John Bowlby's *Charles Darwin: A Biography*," *Chicago Tribune, Tribune Books*, (Sunday, June 23, 1991), pp. 6-7.

B. Professional Journals

"Review of Marc Hauser's *Moral Minds: How Nature Designed Our Universal Sense of Right and Wrong*," *Quarterly Review of Biology* 38 (2008): 396-98.

"Review of Charles Darwin's *Descent of Man*, with introduction by Adrian Desmond and James Moore," *British Journal for the History of Science* 39 (2006): 615-17.

"Review of Donald Broom's *The Evolution of Morality and Religion*," *Quarterly Review of Biology* 80 (2005): 228-29.

"Review of Lewis Petrinovich's *Human Evolution, Reproduction, and Morality*, *Quarterly Review of Biology* 71 (1996): 559-60.

"Review of Paul Farber's *The Temptations of Evolutionary Ethics*, *Isis* (1995).

"Review of Ilse Bulhof's *The Language of Science, a Study of the Relationship between Literature and Science in the Perspective of a Hermeneutical Ontology*," *Isis* (1993).

"Review of Donald Polkinghorne's *Narrative Knowing and the Human Sciences*," *American Journal of Sociology*, 1989.

"Review of Robert Boakes' *From Darwin to Behaviourism*, *Science* 228 (1985): 862-863.

"Review of Michael Ruse's *Is Science Sexist: Essays in the Bio-Medical Sciences*," *Isis* 74 (1983): 421.

"Review of Charles Darwin's *Descent of Man* (New Edition) and Gene Bylinsky's *Life in Darwin's Universe*, *BioScience* (1982).

"Review of D. King-Hele (ed.), *The Letters of Erasmus Darwin*," *Science* 216 (1982): 1101-1102.

"Review of Jutta Schmidt's *Die Umweltlehre Jakob von Uexkuells*," *Isis* 73 (1982): 474-475.

"Review of Thomas Leahey's *A History of Psychology: Main Currents in Psychological Thought*," *Isis* 73 (1982): 125-127.

"Review of D. Robinson's *An Intellectual History of Psychology and The Mind Unfolded*," *Isis* 71 (1980): 325-326.

"Critical Review of D. Lindberg's *Theories of Vision from Alkindi to Kepler*," *Journal of the History of the Behavioral Sciences* 15 (1979): 378-382.

"Review of Hecaen and Albert's *Human Neurophysiology*," *Journal of the American Medical Association* 240 (Dec. 1978): 2777.

Papers:

2009

"Darwin's Biology of Intelligent Design," invited talk to the History Honors Society, Illinois Wesleyan, Bloomington, Illinois, April, 2009.

"Viability of Evolutionary Ethics," invited talk to the undergraduate forum, Notre Dame University, April, 2009.

"Nature and Morality in the Nineteenth Century," Plenary Session, Nineteenth-Century Studies Association, Milwaukee, March, 2009 .

"'All that is most beautiful': Darwin's Theory of Morality," American Association for the Advancement of Science, Chicago, February, 2009 .

"Darwin's Place in History--A Reevaluation," National Academy of Sciences' Sackler colloquium *In the Light of Evolution III: Two Centuries of Darwin* , Irvine, California, January, 2009.

2008

"Goethe's and Schelling's Evolutionary Theory," Key-Note address to the Goethe Society, Pittsburgh, November, 2008.

"Darwin's Accomplishment," Newberry Library Seminar, Chicago, October, 2008.

"The Moral Foundations of Darwin's Evolutionary Theory" and "What Kind of Politics Does Evolutionary Theory Support," Case-Western Reserve University, Cleveland, September, 2008.

"Darwinism, Natural Theology, and Moral Values," Butler University, Indianapolis, September, 2008.

"Comments on Historical Epistemology," Max Planck Institut fuer Wissenschaftsgeschichte, Berlin, Germany, July 2008.

"The Tragic Sense of Ernst Haeckel: His Scientific and Artistic Struggles," Schirn Kunsthalle, Frankfurt, Germany, June 2008.

"Haeckel's Darwinism: Charges of Fraud and Complicity in Nazi Biology." History, Philosophy, and Technology, Stanford University, May, 2008

"Beyond Biology: The Sources of Racial Categories in Evolutionary Thought," Humanities Center, Grinnell College, Grinnell, Iowa, April, 2008

"Darwin's Biology of Intelligent Design," Phi Beta Kappa Lecture, Rockford College, Rockford Illinois, April, 2008

"Objectivity in the Visualization of Life," workshop of the History of Science Program, Princeton University, February, 2008.

"Darwin's Natural Theology," Gleacher Center, University of Chicago, March, 2008.

2007

"Werther Electrified: Science and Romanticism in *Frankenstein*, Midwest Faculty Seminar, University of Chicago, November, 2007.

"Darwin's Place in the History of Biology," Darwin Celebration, Field Museum of Natural History, Chicago, November, 2007.

"Darwin's Evolutionary Theology," Grinnell College, Grinnell Iowa, September, 2007.

"The Myth that Darwin and Haeckel Were Complicit in Nazi Biology," Conference on Myths in the History of Science, University of British Columbia, Vancouver, Canada, August, 2007.

"Darwin's Theory of Natural Selection and Its Moral Purpose," presented at the Cambridge Companion Conference, Florida State University, March, 2007

"How Schelling Solved Goethe's Kantian Problems," Weissbourd Conference, University of Chicago, April, 2007

"Religion, Evolution, and the Charges Against Haeckel," Rice University, April, 2007

2006

"Responsibility in Evolutionary Theory," conference on "Responsibility in the Human Sciences, The Chicago-Max Planck Conference in the History of the Human Sciences, October, 2006.

"Did Ernst Haeckel Fraudulently Misrepresent Embryos and Why are Intelligent Designers Interested," Department of History of Science, University of Minnesota, September, 2006.

"Darwin's Biology of Intelligent Design," Phi Beta Kappa Lecture, Eastern Illinois University, September, 2006

"Religion in the Evolution Debate of the 19th Century," Institut für Wissenschaftsgeschichte, Georg-August-Universität Göttingen, Göttingen, Germany, June, 2006.

"Romanticism," and "Darwin Studies," Academia Sinica and Institute of History & Center for Science, Technology and Society, Taiwan, Republic of China, May 2006.

"Biology and Medicine: the Haeckel-Virchow Dispute over Evolution," American Association for the History of Medicine, Halifax Nova Scotia, May, 2006.

"Darwin's Biology of Intelligent Design," Phi Beta Kappa Lecture, University of South Dakota, April, 2006.

_____. Midwest Faculty Seminar, The University of Chicago, April 2006.

_____. The Stanton Sharp Lecture, Southern Methodist University, Dallas, Texas, February, 2006.

_____. Lecture at the Humanist Society of Chicago, February, 2006

2005

“Haeckel’s Voyage to the Canary Islands: Empirical Justification for Darwin’s Theory,” delivered to the conference on “Naturalists Voyaging” —celebration for Richard Burkhardt— University of Illinois, November, 2005.

“Did Ernst Haeckel Fraudulently Illustrate His Biogenetic Law,” delivered to the seminar on history of science, Johns Hopkins University, September, 2005

_____, delivered at the Conference on “Evo-Devo,” University of Chicago, October, 2005.

“The Moral Grammar of Narrative History: Evolution and Nazi Biology,” Ryerson Lecture, University of Chicago, April, 2005.

_____, Depts. of History and Biology, Oberlin College, April, 2005.

“Darwin’s Romantic Biology,” Phi Beta Kappa Lecture, Grinnell College, April, 2005.

_____, Phi Beta Kappa Lecture, Alfred University, April, 2005.

2004

“The Tragic Sense of Life: Ernst Haeckel and the Struggle over Evolutionary Theory,” Museum national d’histoire naturelle, Centre Alexandre Koyré and the CNRS, Paris, December, 2004.

“Haeckel’s and Miklucho-Maclay’s Polymorphous Demonstration of Darwin’s Theory, or How to Deep-Six your Graduate Student,” Annual History of Science Society Meeting, Austin, Texas, November, 2004.

“The Nature of History,” Humanities Day, University of Chicago, October, 2004.

“Did Ernst Haeckel Fraudulently Depict the Human Embryo,” The Thomas Hall Lecture, Washington University in St. Louis, October, 2004.

“The Nature of Popular Science,” Dept. of Biology, Washington University in St. Louis, October, 2004.

“Darwin’s Romantic Biology,” Phi Beta Kappa Lecture, Truman State University, Kirksville, Missouri, May 2004.

The Politics and Epistemology of Evolutionary Theory: Yesterday and Today,” Conference on Biology and Values, Florida State University, April, 2004.

“The Erotic Foundations of Morphology,” The William Coleman Humanities Lecture, University of Wisconsin, Madison, March, 2004.

"Goethe's Use of Kant in the Erotics of Nature," Depts. of Philosophy and Liberal Studies, Notre Dame University, March, 2004.

"Response to Critics of *The Romantic Conception of Life*, American Philosophical Society, Pacific Division, March, 2004.

2003

"Ernst Haeckel: Darwinian or Lamarckian," Wellcome Institute and French Cultural Ministry, London, December 2003.

"Darwin's Romantic Biology," Phi Beta Kappa Lecture, Augustana College, Rock Island, IL, December 2003.

"The Politics and Epistemology of Evolutionary Theory: the Haeckel-Virchow Debate," delivered at the annual meeting of the History of Science Society, Boston, November, 2003.

"Spencer's Relations to Darwin," read at The Galton Institute, Linnean Society of London, London, England, September, 2003.

"Kant and Goethe," delivered at meeting of the Society for 18th Century Studies, UCLA, August, 2003

"The Science and Politics of Evolution 19th and 21st Century Controversies about the Teaching of Darwin," Case-Western Reserve University, September, 2003.

"Politics and Scientific Epistemology: The Haeckel-Virchow Dispute," presented at the biannual meeting of the International Society for History, Philosophy, and Sociology of Biology, Vienna, Austria, July, 2003.

"Defense of *The Romantic Conception of Life*, presented at ISHPSB, Vienna, Austria, July 2003.

"On Stephen Jay Gould's *Structure of Evolutionary Theory*," presented at ISHPSB, Vienna, Austria, July 2003.

"Aesthetic Foundations of Ernst Haeckel's Evolutionary Project," The Many Faces of Evolution in Europe, ca. 1860-1914, Groningen, The Netherlands, April, 2003.

"Darwin's Romantic Biology," Phi Beta Kappa lecture, Gettysburg College, March, 2003

"The Erotic Sources of Goethe's Science of Morphology," Symposium on Form and Function, Fundació la Caixa, Barcelona, Spain, March, 2003

2002

“The Erotic Authority of Nature: Nature, Science, and the Female during Goethe’s Italian Journey,” University of Bologna, Bologna, Italy, December, 2002.

“The Logic and Rhetoric of Darwin’s *Origin of Species*,” Midwest Faculty Seminar, University of Chicago, October, 2002.

“The Vertebral Theory of the Skull: Goethe’s Dispute with Oken and the Truth of Memory,” in the symposium on “Oersted & the Romantic Legacy, Harvard University, Cambridge, MA, May, 2002.

“The Ethical Status of Reproductive Cloning,” delivered at the University of Chicago, President’s symposium, Chicago, April, 2002.

2001

“The Erotic Sources of Goethe’s Science,” in the symposium “Ulterior Motives,” History of Science Society Meeting, Denver, November, 2001

“German Romanticism,” Humanities Day, The University of Chicago, October, 2001.

“How Schelling Solved Goethe’s Kant Problem” and “Goethe and the Erotic Authority of Nature,” given at the NEH Institute on Romantic Philosophy and Literature, Colorado State University, July, 2001

“Did Ernst Haeckel Fake his Embryo Illustrations?” read at the International Meeting of the Morphological Society, Jena, Germany, July, 2001

“Darwin’s *Origin of Species*: Conclusive Evidence and Religious Assumption,” talk sponsored by the Department of Evolution and Ecology, University of Chicago, April, 2001

“Darwin’s Metaphysics of Mind,” given at the conference Darwinism and Metaphysics, Notre Dame University, March, 2001

“The Erotic Authority of Nature: Nature, Science, and the Female during Goethe’s Italian Journey,” read to the History and Philosophy of Science Colloquium, Northwestern University, January, 2001.

“Thomas Kuhn: ‘Science as Mob Rule,’” presented to the Social Science Series, The University of Chicago, February, 2001.

2000

“Ernst Haeckel’s Orthodox Darwinism and his Heterodox Defense,” presented to the conference “Darwinian Heretics,” Max-Planck-Institut fuer Wissenschaftsgeschichte, Berlin, December, 2000.

“Nature is the Poetry of Mind, or How Schelling Solved Goethe’s Kantian Problems,” Dibner Institute Symposium “Kant and the Exact Sciences,” MIT, Cambridge, November, 2000.

“The Erotic Authority of Nature: Nature, Science, and the Female during Goethe’s Italian Journey,” Humanities Division, Case-Western Reserve University, Cleveland, November, 2000

“Darwin’s Romantic Biology,” Department of Philosophy, Case Western Reserve University, Cleveland, November, 2000

“How Ernst Haeckel Became a Virulent Darwinist,” annual meeting of the History of Science Society, Vancouver, November, 2000.

“The Erotic Authority of Nature: Nature, Science, and the Female during Goethe’s Italian Journey,” annual meeting of the Society for Intellectual History, Chicago, September, 2000

_____, Franke Humanities Institute, University of Chicago, October, 2000

“Did Friedrich Schelling Kill Auguste Böhmer and Does it Matter? Or, the Role of Biography in Intellectual History,” symposium on biography, University of Nebraska, Lincoln, Nebraska, September, 2000

“Scientific Transcendence and Historical Reality: the Case of Darwin’s Romantic Biology,” Akademie der Wissenschaft, Berlin, May, 2000

“The Erotic Authority of Nature: Nature, Science, and the Female during Goethe’s Italian Journey,” symposium on the Moral Authority of Nature, Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, June, 2000

“The Linguistic Creation of Man: Darwinian Foundations of Romantic Biology,” delivered to the general colloquium, Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, February, 2000

“Darwinian Evolutionary Psychology,” delivered at the symposium “Promise and Limits of Reductionism in Biology and Medicine,” sponsored by INSERM, Paris, April, 2000

And many more...