



Manfred Dietrich Laubichler— Curriculum vitae

Address

School of Life Sciences
Arizona State University
PO Box 874501
Tempe, AZ 85287-4501
Phone: (480) 965 5481
Fax: (480) 965 8330
e-mail: Manfred.Laubichler@asu.edu

Education

University of Vienna, M. Sc. (Zoology), 1991. Thesis: Epistasis in two-locus two-allele systems: Gillespie-Turelli effects and epistatic dominance
Yale University, M. Phil. (Biology), 1993; Ph.D. (Biology), 1997. Thesis: Identifying Units of Selection: Conceptual and Methodological Issues
Princeton University, M.A. (History), 1998; ABD (Ph.D. Thesis: Between Philosophy and Experiment. A History of Theoretical Biology, 1900 to WWII

Area of Specialization and Interest

Theoretical Biology, Evolutionary Biology (Quantitative and Population Genetics), Evolutionary Developmental Biology, History of Biology, Cultural History of Science, Philosophy of Biology

Professional Employment

2001 - Arizona State University: Assistant Professor, School of Life Sciences and Center for Biology and Society; Affiliate: Department of Philosophy

Awards

2006 Dean's Distinguished Teaching Award, College of Liberal Arts and Sciences, Arizona State University
2000-2001 The Charlotte Elizabeth Proctor Honoric Fellowship, Princeton University
1991-1996 G. Evelyn Hutchinson Prize, Yale Institute for Biospheric Studies

Fellowships

1998-2001 Summer Research Grant, Princeton University
1998-2001 Post-Doctoral Fellowship, Max Planck Institute for the History of Science (Summer 1998, 2000, 2001, and Fall of 1999)
1996-2000 University Fellowship, Princeton University
1995-1996 Price Teaching Award Fellowship, Yale University
1991-1995 University Fellowship, Yale University
1991-1992 Dissertation Stipend, Fulbright Commission and Bundesministerium fur Wissenschaft and Forschung, Austria

Publications**Research Publications** (*all contracts, page proofs or acceptance letters are available on request)**Books:****Under contract:**

8. **M.D. Laubichler**, B.K. Hall, and G.B. Muller (eds.) Arriving at Theoretical Biology, MIT Press, 2 volumes-final version will be sent to press in March 2007
7. **M.D. Laubichler** and J. Maienschein (eds.) Form and Function in Evo Devo. Cambridge University Press-final version will be sent to press in January 2007
6. **M.D. Laubichler** Entwicklung und Evolution, Fischer Verlag, Frankfurt am Main-final revision will be sent to press in August 2006
5. **M.D. Laubichler**, P. Hammerstein, H.-J. Rheinberger (eds.). Regulation: Current and Historical Themes in Theoretical Biology. MIT Press-final version will be sent to press in September 2006

In Press or published

4. W. Aird (ed.), **M.D. Laubichler et al. (associate editors)**: Endothelial Biomedicine, Cambridge University Press, in press
3. **M.D. Laubichler** and G.B. Muller (eds.) Modeling Biology. MIT Press, in press, publication scheduled for January 2007
2. M.Hagner and **M.D. Laubichler** (eds.): Die Bedeutung des Allgemeinen in den Wissenschaften des 19. and 20. Jahrhunderts. Diaphanes Verlag, Zurich, in press, publication scheduled for September, 2006
1. **M.D. Laubichler** and J. Maienschein (eds.): From Embryology to Evo-Devo: A History of Embryology in the 20th Century. MIT Press, Dibner Series, in press, publication scheduled for December 2006

Refereed Articles and Chapters in Edited Volumes:**In preparation and under review:**

70. **M.D. Laubichler** and H.-J. Rheinberger *Alfred Kuhn and the Tradition of Developmental Physiological Genetics*, Nature Review Genetics, (due July 2006-invited peer reviewed submission)
69. **M.D. Laubichler** et al.): *Social Insects as a Model System for Evo Devo*, Journal of Experimental Zoology: Part B (due September 2006-invited peer reviewed Perspectives paper)
68. **M.D. Laubichler** and J. Gadau: *Social Insects as Models for Evo Devo*, in J. Gadau and J. Fewell (eds.): Organization of Insect Societies-From Genomes to Socio complexity. Harvard University Press (due August 2006-invited peer reviewed book chapter)
67. R. Gorelick and **M. D. Laubichler**: *Genetic does not equal DNA: amalgamating neo-Lamarckian and neo-Darwinian evolution*, Journal of Experimental Zoology: Part B, (— will be submitted in July)
66. P.Hammerstein and **M.D. Laubichler** *What is Theoretical Biology? Perspectives at the beginning of its 2nd Century*, Journal of Theoretical Biology, (-will be submitted in June)
65. **M.D. Laubichler**: *Character and Trait* in S. Sarkar and A. Plutynski (eds.). A Companion to the Philosophy of Biology, (-will be submitted in June)
64. **M.D. Laubichler**: *The Character Concept in Biology*, Stanford Encyclopedia of Philosophy, (-will be submitted in August)
63. **M.D. Laubichler**: *The Sea Urchin's Challenge. The Problem of Regulation in Entwicklungsmechanik and Theoretical Biology*, in M.D. Laubichler, P. Hammerstein, and H.J. Rheinberger (eds.) Regulation: Current and Historical Themes in Theoretical Biology. MIT Press, (under review)

62. **M.D. Laubichler** and P. Hammerstein: *Regulation in Current Biology*, in M.D. Laubichler, P. Hammerstein, and H.J. Rheinberger (eds.) Regulation: Current and Historical Themes in Theoretical Biology, MIT Press (under review)
61. **M.D. Laubichler** : *Universal Biology: Dream or Reality*, Stud. Hist. Phil. Biol. & Biomed. Sci., (under review)
60. **M.D. Laubichler** and M. Chew : *The role of the organism in modern ecology*, in K. Jax and A. Schwarz (eds.) Handbook of Ecological Concepts, Springer, **in press**

In press

59. **M.D. Laubichler**: *Tinkering: a historical evaluation*, in D. Lieberman (ed.), Tinkering: the microevolution of development. Novartis Foundation Symposium 284, Wiley, in press.
58. W. Aird and **M.D. Laubichler** . *Endothelium: Development and Evolution*, in W. Aird (ed.) Endothelial Biomedicine. Cambridge University Press, **in press**
57. **M.D. Laubichler**, W. Aird, and J. Maienschein . *Endothelium: A History*, in W. Aird (ed.) Endothelial Biomedicine. Cambridge University Press, **in press**
56. W. Aird, **M.D. Laubichler**, and J. **Maienschein** . *Endothelium: Future Perspectives*, in W. Aird (ed.) Endothelial Biomedicine. Cambridge University Press, **in press**
55. **M.D. Laubichler**: *Evolutionary Developmental Biology*, in David Hull and Michael Ruse (eds.) Cambridge Companion to the Philosophy of Biology, Cambridge University Press, **in press**
54. **M.D. Laubichler** and J. Maienschein: *Embryos, Cells, Genes, and Organisms: A Few Reflections on the History of Evolutionary Developmental Biology*, in Robert Brandon and Roger Sansom (eds.) Integrating Evolution and Development: From Theory to Practice, MIT Press, **in press**
53. **M.D. Laubichler**, G.B. Muller, and J. Collins and S. Gilbert: *How to integrate Development, Evolution, and Ecology: Modeling in Evo Devo*, in M.D. Laubichler and G.B. Muller (eds.), Modeling Biology: Structures, Behavior, Evolution. MIT Press, in press
52. **M.D. Laubichler** and G.B. Muller: *A model is a model is a model ...:Introduction*, in M.D. Laubichler and G.B. Muller (eds.), Modeling Biology: Structures, Behavior, Evolution. MIT Press, in press
51. **M.D. Laubichler** and J. Maienschein: *Evolution and Society*, in Companion to Evolution, Michael Ruse and Joseph Travis (eds.), Harvard University Press, in press.
50. **M.D. Laubichler** (2006): *Does History Recapitulate Itself? Reflections on the Origins of Evolutionary Developmental Biology*, in M.D. Laubichler and J. Maienschein (eds.) (2006): From Embryology to Evo-Devo: A History of Embryology in the 21st Century, MIT Press, **in press**, publication scheduled for December 2006
49. **M.D. Laubichler** and J. Maienschein (2006): *Introduction*, in M.D. Laubichler and J. Maienschein (eds.) (2006): From Embryology to Evo-Devo: A History of Embryology in the 21st Century, MIT Press, in press, publication scheduled for December 2006
48. **M.D. Laubichler** (2006): *The specter of the past. What the history of theoretical biology means today*, Biological Theory, in press, publication scheduled for December 2006

Published

47. M. Hagner and **M.D. Laubichler** (2006): *Vorläufige Überlegungen zum Allgemeinen*, in M. Hagner and **M.D. Laubichler** (eds.) (2006): Der Hochsitz des Wissens: Das Allgemeine als wissenschaftlicher Wert, Diaphanes Verlag, Zurich, pp. 7-21.
46. **M.D. Laubichler** (2006): *Biologie als selbstständige Grundwissenschaft and die allgemeinen Grundlagen des Lebens*, in M. Hagner and **M.D. Laubichler** (eds.) Der Hochsitz des Wissens Das Allgemeine als wissenschaftlicher Wert, Diaphanes Verlag, Zurich, pp. 185-205.
45. **M.D. Laubichler** (2006): *Die Virtuosität der Natur im Spiegel der Naturwissenschaft*, in N. Haas, R. Nagele, H.J. Rheinberger (eds.) Darstellung oder Manifestation - Virtuosität in den Wissenschaften and Künsten, Eggingen: Edition Isele, pp. 147-168.

44. P. Hammerstein, E. Hagen, and **M.D. Laubichler** (2006): *Strategies. A Central Concept in Biological and Economical Theory*, Biological Theory, 1: 198-201.
43. **M.D. Laubichler** and H.J. Rheinberger (2006): *August Weismann and Theoretical Biology*, Biological Theory, 1: 202-205.
42. J.S. Robert, J. Maienschein, and **M. D. Laubichler** (2006): *Systems Bioethics and Stem Cell Biology*, Journal of Bioethical Inquiry 3: 19-31.
41. **M.D. Laubichler**, P. Hammerstein, and E. Hagen (2005): *The Concept of Strategies and John Maynard Smith's Influence on Theoretical Biology*, Biology and Philosophy 20: 1041-1050.
40. **M.D. Laubichler** (2005): *Heredity and Heritability*, in Jessica Pfeiffer and Sahorta Sarkar (eds.) The Philosophy of Science: An Encyclopedia, Routledge, pp: 352-256.
39. **M.D. Laubichler** (2005): *Systemtheoretische Organismuskonzeptionen*, in Ulrich Krohs and Georg Toepfer (eds.) Einführung in die Philosophie der Biologie. Frankfurt/Main: Suhrkamp Verlag, pp: 109-124.
38. **M.D. Laubichler** (2005): *Evolutionäre Entwicklungsbiologie*, in Ulrich Krohs and Georg Toepfer (eds.) Einführung in die Philosophie der Biologie. Frankfurt/Main: Suhrkamp Verlag, pp: 322-337.
37. **M.D. Laubichler** and J. Maienschein (2004) *Ontogeny, Anatomy, and the Problem of Homology: Carl Gegenbaur and the American Tradition of Cell Lineage Studies*, in U. Hof3feld, L. Olsson, O. Breidbach G.S. Levit (eds.) Evolutionary Morphology: From Carl Gegenbaur to the Present, Fineday Press. pp: 132-142. [Russian Translation of 26]
36. **M.D. Laubichler** and H.-J. Rheinberger (2004): *Alfred Kuhn and Developmental Evolution*, Journal of Experimental Zoology: Part B, 302B: 103-110.
35. **M.D. Laubichler** and J. Maienschein (2004): *Development*, in Maryanne Cline Horowitz (ed.), The New Dictionary of the History of Ideas, New York, Charles Scribner's Sons, Vol 2: pp: 570-574.
34. **M.D. Laubichler** and G.P. Wagner (2004): *Introduction to the 2001 Kowalevsky Medal Winner Symposium*, Journal of Experimental Zoology: Part B, 302B: 1-4.
33. G.P. Wagner and **M.D. Laubichler** (2004): *Rupert Riedl and the Re-Synthesis of Evolutionary and Developmental Biology*, Journal of Experimental Zoology: Part B, 302B: 92-102.
32. **M.D. Laubichler** (2004): *Universelle Biologie. Traum and Wirklichkeit*, in T. Weber (ed.) Science & Fiction 11: Leben auf anderen Sternen, Fischer Verlag, pp: 163-180.
31. R. Gorelick and **M.D. Laubichler** (2004): *Decomposing Multi-locus Linkage Disequilibrium*. Genetics, 166: 1581-1583.
30. **M.D. Laubichler** (2003): *Carl Gegenbaur (1832-1903): Integrating Comparative Anatomy and Embryology*. Journal of Experimental Zoology: Part B Molecular and Developmental Evolution, 300B: 23-31.
29. **M.D. Laubichler** and G.P. Wagner (2003): *Editorial: A new series of vignettes on the history of evolutionary developmental biology*. Journal of Experimental Zoology: Part B Molecular and Developmental Evolution, 299: 1-2.
28. M.K.Chew and **M.D. Laubichler** (2003): *Natural Enemies: Metaphor or Misconception?*, Science, 301: 52-53.
27. **M.D. Laubichler** (2003): *Units and Levels of Selection in Developing Systems*, in Brian Hall and Wendy Olson (eds.) Keywords and Concepts in Evolutionary Developmental Biology. Cambridge, MA, Harvard University Press, pp:332-341.
26. **M.D. Laubichler** and Jane Maienschein (2003): *Ontogeny, Anatomy, and the Problem of Homology.- Carl Gegenbaur and the American Tradition of Cell Lineage Studies*, Theory in Biosciences, 112: 194-203.
25. **M.D. Laubichler** (2002): *Anatomy and Physiology in the 191" century*, The History of Modern Science and Mathematics. Brian Baigrie (ed.) Vol 1: 199--213. New York: Charles Scribners.

24. **M.D. Laubichler** (2002): *An egg is and egg is an egg [Essay Review of Evelyn Fox Keller: Making Sense of Life]*, *Cell*, 111: 460-461.
23. **M.D. Laubichler** and S. Sarkar (2002): *Flies, Genes, and Brains: Oskar Vogt, Nicolai Timofeeff-Ressovsky, and the Origin of the Concepts of Penetrance and Expressivity in Classical genetics*, in L. Parker and R.A. Ankeny (eds.) Medical Genetics. Conceptual Foundations and Classic Questions, Dordrecht, Kluwer, pp: 63-85.
22. G. Geison and **M.D. Laubichler** (2001): *Reflections on the Role of Organismal and Cultural Variation in the History of the Biological Sciences*, Stud. Hist. Phil. Biol. & Biomed. Sci., 32: 1-29.
21. **M.D. Laubichler** and G.P. Wagner (2001): *How molecular is molecular developmental biology? A reply to Alex Rosenberg's Reductionism Redux: Computing the Embryo*, Biology and Philosophy, 16: 53-67.
20. **M.D. Laubichler** (2001): *Mit oder ohne Darwin? Die Bedeutung der Darwinschen Selektionstheorie in der Konzeption der Theoretischen Biologie von 1900 bis zum Zweiten Weltkrieg*, in R. Broemer & U. Ho3feld (eds.) Darwinismus and/als Ideologie, Berlin, Verlag fur Wissenschaft and Bildung, pp. 229-262.
19. **M.D. Laubichler** (2000): *The organism is dead. Long live the organism!* Perspectives on Science, 8: 286-315. [Essay Review]
18. **M.D. Laubichler** (2000): Homology in Development and the Development of the Homology Concept, American Zoologist, 40: 777-788.
17. G.P. Wagner, C. Chiu & **M.D. Laubichler** (2000): *Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes*, American Zoologist, 40: 819-831.
16. **M.D. Laubichler** (2000): Introduction to the Symposium "The Organism in Philosophical Focus," Philosophy of Science, Supplement, 67: S256-259.
15. **M.D. Laubichler** and G.P. Wagner (2000): *Organism and Character Decomposition: Steps towards an Integrative Theory of Biology*, Philosophy of Science, Supplement 67: S289-300.
14. G.P. Wagner and **M. D. Laubichler** (2000): *Character Identification in Evolutionary Biology: The Role of the Organism*, in G.P. Wagner (ed.) The Character Concept in Evolutionary Biology, San Diego, Academic Press, pp. 141-163. [Reprint of 13.]
13. G.P. Wagner and **M.D. Laubichler** (2000): *Character Identification in Evolutionary Biology: The Role of the Organism*, Theory in Biosciences, 119: 20-40.
12. **M.D. Laubichler** (2000): *Oskar and Cecile Vogt: From the Neo-Cortex to Bumble Bees, an episode in the history of the biological character concept*, in G.P. Wagner (ed.) The Character Concept in Evolutionary Biology, San Diego, Academic Press, pp. 37-56.
11. **M.D. Laubichler** (1999): *Frankenstein in the land of Dichter and Denker. Essay on Science and Society*. Science, 286: 1859-1860
10. **M.D. Laubichler** and A.N.H. Creager (1999): *How Constructive is Deconstruction?*, Stud. Hist. Phil. Biol. & Biomed. Sci. 30: 129-142. [Essay Review]
9. **M.D. Laubichler** (1999): *A semiotic perspective on biological objects and functions*, Semiotica, 127: 415-432
8. G.P. Wagner, **M.D. Laubichler**, H. Bagheri-Chaichian (1998), *Genetic Measurement Theory of Epistatic Effects*. Genetica, 102/103: 569-580.
7. **M.D. Laubichler** (1997): *The semiotics of biological functions* in I. Rauch and G.F. Carr eds. Semiotics around the World, Mouton de Gruyter, pp. 953-956
6. **M.D. Laubichler** (1997): *Wittgensteinian Biology* in I. Rauch and G.F. Carr eds. Semiotics around the World, Mouton de Gruyter, pp. 957-960
5. **M.D. Laubichler** (1997): Introduction to Semiotics in Biology, European Journal for Semiotic Studies, pp. 248-250.
4. **M.D. Laubichler** (1997): *The nature of biological concepts* European Journal for Semiotic Studies, 9: 251-276

3. **M.D. Laubichler** (1997): *Reflections on Wittgenstein and Biology* European Journal for Semiotic Studies, 9: 377-386
2. **M.D. Laubichler** & G.P. Wagner (1995): *Wider den Revolutionszwang!* Ethik and Sozialwissenschaften, 6 (3): 333-335.
1. G.P. Wagner & **M.D. Laubichler** (1994): *Kontext and Organization*. Ethik and Sozialwissenschaften. 5 (2): 261-263

Refereed Commentary, Letters, and Editorials

8. W. Callebaut, L. Carporeal, P. Hammerstein, **M.D. Laubichler**, G.B. Muller (2006): *Origin of Life: Editorial*, Biological Theory, in press
7. W. Callebaut, L. Carporeal, P. Hammerstein, **M.D. Laubichler**, G.B. Muller (2006): *Risking Deeper Integration. Editorial*, Biological Theory, pp: 1-3.
6. **M.D. Laubichler**, G.B. Muller, W. Fontana, G.P. Wagner (2005): *Sacrificing Dialogue for Politics?, Letters to the Editor*, Science, 309: 1324.
5. **M.D. Laubichler** (2005): *Glaube an Design. Ritt den Kardinal der Teufel?*, Frankfurter Allgemeine Zeitung,] 5.Juli 2005, p.33.
4. **M.D. Laubichler**, G.B. Muller, W. Fontana, G.P. Wagner (2005): *Schonborn gegen Darwin: Diskussionswürdige Kritik odor fundamentalistische Provokation? Kontra: Himmelschreiende Arroganz*. Der Standard, 13. Juli 2005, p.27.
3. M.K.Chew and **M.D. Laubichler** (2003): *Metaphors, Misuse, and Misconceptions, Letters to the Editor*, Science, 301: 1481-1482.
2. **M.D. Laubichler** (2000): *Science under the Nazis, Letters to the Editor*, Science, 287: 1931.
1. **M.D. Laubichler** & H.-J. Rheinberger (1999): *Unvermeidliche Kämpfe über Richtungen der Menschenzuchtung? - Eine Anmerkung zu Sloterdijk*, BioSpektrum, 5: 426

Translations

2. Seth, S. (2006): *Allgemeine Physik? Max Planck and die Gemeinschaft der theoretischen Physik, 1906-1914*, in M. Hagner and **M.D. Laubichler** (eds.) Der Hochsitz des Wissens: Das Allgemeine als wissenschaftlicher Wert, Diaphanes Verlag, Zurich, pp. 151-184 (together with Michael Hagner).
1. Nyhart, L.K. (2006): *Kundekunde, oder: Das Allgemeine im Museum*, in M. Hagner and **M.D. Laubichler** (eds.) Der Hochsitz des Wissens: Das Allgemeine als wissenschaftlicher Wert, Diaphanes Verlag, Zurich, pp. 206-237 (together with Michael Hagner).

Refereed Encyclopedia Contributions

- 25-13. **M.D. Laubichler** (2006): *Dobzhansky/Genetics and the Origin of Species, Theodosius Dobzhansky-Biogramm, Schrodinger/What is Life?, Erwin Schrodinger-Biogramm, Konrad Lorenz-Biogramm, Lorenz/Die Ruckseite des Spiegels, Uexkull/Theoretische Biologie, Jacob von Uexkull-Biogramm, Thompson/On Growth and Form, D'Arcy Thompson-Biogramm, Holldobler/Wilson: The Ants, Bertold Holldobler-Biogramm, E. O. Wilson-Biogramm*, in Ludwig Arnold et al., Kindlers Literatur Lexikon 3., vollstandig neu bearbeitete Auflage, in press
- 12-7. **M.D. Laubichler** (2006): *Homology, Ivan Schmalhausen, August Weismann, Hugo de Vries, Richard Goldschmidt, Bernhard Rensch* in Companion to Evolution, Michael Ruse and Joseph Travis (eds.), Harvard University Press, in press
6. **M.D. Laubichler** (2003): *Ludwig von Bertalanffy*, in Lexikon bedeutender Naturwissenschaftler. Spektrum Akademischer Verlag, pp: 151-152
5. **M.D. Laubichler** (2001): *Oscar Hertwig*, in Encyclopedia of the Life Sciences, London: Nature Publishing Group, Vol 8: 617-618; www.els.net
4. **M.D. Laubichler** (1998): *Organism*, in Norton Dictionary of Modern Thought, 3rd edition, New York: W. W. Norton

3. **M.D. Laubichler** (1998): *Unit of Selection*, in Norton Dictionary of Modern Thought, 3rd edition, New York: W. W. Norton
2. **M.D. Laubichler** (1998): *Walter Gilbert*, in Biographical Encyclopedia of Scientists, edited by Richard Olson, New York: Marshall Cavendish Corp. pp: 509-511.
1. **M.D. Laubichler** (1998): *Sidney Altman*, in Biographical Encyclopedia of Scientists, edited by Richard Olson, New York: Marshall Cavendish Corp. pp: 15-17.

Book Reviews

32. "The Borges challenge in biology," Kenneth M. Weiss and Anne V. Buchanan, *Genetics and the Logic of Evolution*, (with L. Pyne), *BioEssays*, 28: 768-69 (2006).
31. Matthias Dorries (ed.), *Michael Frayn's Copenhagen in Debate*, *ISIS*, in press (2006)
30. Hans-Jorg Rheinberger, *Epistemologie des Konkreten: Studien zur Geschichte der modernen Biologie*, Journal of the History of Biology, 39: 415-17 (2006).
29. "Does Evo Devo Equal Regulatory Evolution?," Sean Carroll, *Endless Forms Most Beautiful: The New Science of Evo Devo and the Making of the Animal Kingdom* and Sean Carroll, Jennifer Grenier, and Scott Weatherbee, *From DNA to Diversity: Molecular Genetics and the Evolution of Animal Design (2nd edition)*, Biological Theory, pp: 102-103 (2006).
28. "A Constrained View of Evo-Devo's Roots," Ron Amundson, *The Changing Role of the Embryo in Evolutionary Thought*, Science, 309: 1020-1021 (2005).
27. "Art Forms in Nature," David Lebrun, *Proteus: A Nineteenth Century Vision*, Science, 308: 1746 (2005).
26. Marcel Weber, *Philosophy of Experimental Biology*, Quarterly Review of Biology, 80: 343-344 (2005).
25. Soraya de Chadarevian and Nick Hopwood (eds.), *Models: The Third Dimension of Science*, British Journal for the History of Science, in press
24. Oren Harman, *The Man who invented the Chromosome: A Life of Cyril Darlington*, Journal of the History of Medicine and Allied Sciences, 60: 520-522 (2005).
23. Thomas Junker, *Die zweite Darwinsche Revolution: Geschichte des Synthetischen Darwinismus in Deutschland 1924 bis 1950*, *ISIS*, 97: 172 (2006).
22. Thomas Junker, *Geschichte der Biologie*, History and Philosophy of the Life Sciences, in press
21. Christian Muller, *"Sie müssen an Heilung glauben! " Paul Dubois (1848-1918). Ein Vergessener Pionier der Psychotherapie*, History and Philosophy of the Life Sciences, in press
20. *Weltratsel and Lebenswunder. Ernst Haeckel - Werk, Wirkung and Folgen*, in History and Philosophy of the Life Sciences, in press
19. Heike Menz, *Martin Heinrich Ratlike (1793-1860): Ein Embryologe des 19. Jahrhunderts*, in History and Philosophy of the Life Sciences, in press
18. Donald R. Forsdyke, *The Origin of Species Revisited*, in Perspectives in Biology and Medicine, in press
17. Reinhard Mocek, *Biologie and soziale Befreiung*, Journal of the History of Biology, in press
16. Klaus Taschwer and Benedikt Foger, *Konrad Lorenz*, Journal of the History of Biology, in press
15. "Tragedy Averted" Theodore Porter, *Karl Pearson: The Scientific Life in a Statistical Age*, Science, 304: 1747-1748 (2004).
14. Ernst Peter Fischer / Klaus Wiegandt (Hg.): *Evolution. Geschichte and Zukunft des Lebens*, Frankfurt/Main: Fischer Taschenbuch Verlag 2003 , **in: sehepunkte** 4 (2004), Nr. 4 [15.04.2004], URL: <<http://www.sehepunkte.historicum.net/2004/04/334I.html>>
13. "A Premodern Synthesis," Robert J. Richards, *The Romantic Conception of Life*, Science, 299: 516-517 (2003).

12. Ulrich Sucker, *Das Kaiser Wilhelm Institut fur Biologie* , Journal of the History of Biology , 36: 620-622 (2003).
11. Sean B. Carroll, Jennifer Greenier, Scott Weatherbee, *From DNA to Diversity.- Molecular Genetics and the Evolution of Animal Design*, in Perspectives in Biology and Medicine , 46: 148-153 (2003).
10. Frederick B. Churchill and Helmut Risler (eds.), *August Weismann: Ausgewahlte Briefe and Dokumente/ Selected Letters and Documents with and essay by Frederick Churchill (2 vols.)*, in Journal of the History of Biology, 35: 196-198. (2002)
9. Laura Otis, *Membranes: Metaphors of Invasion in Nineteenth-Century Literature, Science, and Politics*, in The Journal of Interdisciplinary History, 32: 287-288 (2001)
8. Brigitte Hoppe (ed.), *Biology Integrating Scientific Fundamentals. Contributions to the History of Interrelations between Biology, Chemistry, and Physics from the 18th to the 20th Centuries*, in ISIS, 92: 761-762 (2001)
7. Michael Hagner, *Homo Cerebralis. Vom Seelenorgan zum Gehirn*, in ISIS, 91: 140-141 (2000)
6. Robert Proctor, *The Nazi War on Cancer*, in Journal of the History of Biology, 32: 561-563 (1999)
5. "Seeing is believing, but what do we see?," Henry Harris, *The Birth of the Cell*, in Science, 284:58(1999)
4. Ilse Jahn (ed.), *Geschichte der Biologie: Theorien, Methoden, Institutionen, Kurzbiographien*, in Journal of the History of Biology , 32: 407-410 (1999)
3. Knut Schmidt-Nielsen, *The Camel's Nose*, in ISIS, 90: 622-624 (1999)
2. Helga Satzinger, *Die Geschichte der genetisch orientierten Hirnforschung von Cecile and Oskar Vogt*, in ISIS, 90: 394-395 (1999)
1. Thomas Junker & Eve-Marie Engels (eds.), *Die Entstehung der Synthetischen Theorie: Beitrage zur Geschichte der Evolutionsbiologie in Deutschland 1930-1950*, in Archives Internationales D'Histoire des Sciences , 49: 431-432 (1999).

Talks, Panels, and Lectures

2006

- "Metaphors in science: can 't live with them , can't live without them ," Invited Talk at the European Science Forum in Munich, July 2006
- "'Tinkering' ; an historical evaluation ," Invited paper at the Novartis Foundation Symposium 284: "Tinkering: the microevolution of development," London , July 2006
- "Organisms, Gradients, Fields and Networks : Towards an Epistemology of Modeling Development," Invited paper at the Symposium "The making up of organisms: Mapping the future of biological models and theories," Paris, Ecole Normale Superieure, June 2006
- "Philosophy between Theoretical Biology and Anthropology : Ernst Cassirer as a Model Interdisciplinary Thinker," Talk at the Department of History-History of Science Colloquium, UCLA, April 2006
- "Overcoming a Gene-centered View: Epigenetics , Development and their Implications," Talk at the Center for Genetics and Society , UCLA, April 2006
- "Social Insects as a Model System for Evo Devo ," Talk at the Konrad Lorenz Institute for Evolution and Cognition Research , Altenberg, Austria, February 2006
- "Ernst Cassirer and Theoretical Biology: Closer than you think ." Departmental Seminar, Department of the History and Philosophy of Science, Indiana University, January 2006

2005

- "Hans Jonas and Ernst Cassirer. Theoretical Biology, Philosophical Anthropology, and the Search for and Integrated Theory of Life," Paper, Judaism and the Phenomenon of Life: The Legacy of Hans Jonas, November 2005

- "Die Virtuosität der Natur im Spiegel der Naturwissenschaften," Invited Lecture, Liechtensteiner Exkurse VI, September 2005
 - "Research Agendas in Theoretical Biology," Paper at the 13th Altenberg Workshop in Theoretical Biology, Altenberg, Austria, September 2005
 - "Biological Databases and Information Networks," Invited Lecture, 9th Ischia Summer School in the History of Biology, Stazione Zoologica Napoli, June 2005
 - "Goethe vivat! The Morphological Tradition in 20th Century Theoretical Biology," Invited talk, Werkmeister Conference in History and Philosophy of Science, March 2005
 - "Heredity and Development as Related Problems - August Weisman and the Origin of Theoretical Biology," Invited Talk at the Conference "The Cultural History of Heredity," Max Planck Institute for the History of Science, Berlin, January 2005
- 2004
- "Universal Biology: Dream or Reality," Talk at the History of Science Meeting, Austin, TX, November 2004.
 - "*The Sea Urchin's Challenge. The Problem of Regulation in Entwicklungsmechanik and Theoretical Biology*," Talk at the Interdisciplinary Conference "Regulation: Historical and Current Themes in Theoretical Biology," Berlin-Brandenburg Academy of Sciences, June 2004.
 - "Ideas about Regulation in Developmental Mechanics, Developmental Physiology, and 4tology," Talk at the Interdisciplinary Conference "Regulation: Historical and Current Themes in Theoretical Biology," Berlin-Brandenburg Academy of Sciences, June 2004.
 - "Ernst Cassirer: Theoretical Biology, Philosophical Anthropology and the Search for an Integrated Theory of Life and Culture," Talk at the University of Tartu, Estonia, May 2004.
 - "Exotic Invasive Species as a Model System for Ecology," Talk at the 2nd Southwest Colloquium in the History and Philosophy of the Life Sciences, University of Texas at Austin, March 2004.
 - "Ernst Cassirer and Theoretical Biology," Institute Colloquium, Max Planck Institute for the History of Science, Berlin, February 2004.
 - "The Machinery of the Genes and Alfred Kuhn's Physiological Developmental Genetics," Departmental Colloquium, Max Planck Institute for the History of Science, Berlin, January 2004.
- 2003
- "Goethe vivat! The morphological tradition in theoretical biology during the first decades of the 20th century," Paper at the International symposium Form and Function and the Museo la Ciencia, Barcelona, Spain, March 2003
 - "A look back at Watson and Crick: Their discovery and how it changed science," University of Arizona Phoenix Campus, April 2003
 - "Lessons from the Past, A Brief History of the Gene," Lecture presented in a Lecture Series to Arizona State University Donors, April 2003
 - "The Role of History of Biology in a Biology and Society Program," Lecture at the Education Workshop at the Meeting of the International Society for the History, Philosophy, and Social Studies of Biology, Vienna, Austria, July 2003
 - "Between Philosophy and Experiment: Styles of Research in Theoretical Biology," Talk at the Meeting of the International Society for the History, Philosophy, and Social Studies of Biology, Vienna, Austria, July 2003
 - "The Integrated Virtual Laboratory: Digital History of Biology," Panel and Presentation at the Meeting of the International Society for the History, Philosophy, and Social Studies of Biology, Vienna, Austria, July 2003
 - "The Future and Past of Theoretical Biology," Keynote Lecture, Sonderforschungsbereich Theoretische Biologie, Humboldt University, Berlin, October 2003

- 2002
- "Das Wirkgetriebe der Gene: Alfred Kuhn's Physiological Genetics," Talk at the Annual meeting of the History of Science Society, Cambridge, MA, November 2003
 - "Regulation from Driesch to Davidson," Paper at the Dibner Workshop "From Embryology to Evo-Devo," MIT Dibner Institute, October 2002
 - "The Viennese Roots of Theoretical Biology," Paper at the Altenberg Workshop, Austrian Academy of Sciences, September 2002
 - "Theoretical Biology in the 21st Century," Panel at the Sonderforschungsbereich Theoretische Biologie, Humboldt University, Berlin, July 2002
 - "Theoretische Biologie and die allgemeinen Grundlagen des Lebens," Paper at the workshop "Die Bedeutung des Allgemeinen in den Wissenschaften des 19. and 20. Jahrhunderts," Max Planck Institute for the History of Science, Berlin, June 2002
 - "A rose is but a rose is but a rose but how do we know what a rose is? The problem of character identification in developmental biology," Paper at the 3rd meeting of the International Philosophy of Development Group, University of Texas at Austin, April 2002
- 2001
- "Fin-de-Siecle Origins of Theoretical Biology," Paper presented at the Annual Meeting of the History of Science Society, Denver, November 2001
 - "Science on the Stage" paper presented at the Princeton Workshop on Science and Theater, Princeton University, October 2001
 - "Gerry Geison, in memoriam" Princeton University, October 2001
 - "Symbolic Forms, Excentricity, and 'Mangelwesen': The Role of Biology in the Philosophical Anthropology of Cassirer, Plessner, and Gehlen," Paper, University of Chicago, May 2001
 - "Between Philosophy and Experiment: Fin-de Siecle Origins of Theoretical Biology and the Problem of Development," Lecture, Department of Biology, Arizona State University, March 2001
 - "Context Matters: Reflections on the Unit of Selection and Other Biological Concepts," Lecture, Altenberg Seminar in Theoretical Biology, University of Vienna, March 2001
 - "Between Philosophy and Experiment, the Emergence of Theoretical Biology during the Early Decades of the 21st Century," Lecture, Konrad Lorenz Institute für Evolutions- und Kognitionsforschung, Altenberg, March 2001
- 2000
- "Allgemeine Biologie: Between Conceptual Unification and Popular Synthesis of the Life Sciences," Lecture, Department for the History of Science, Harvard University, December 2000
 - "From a Developmental Point of View: Theories of Development in the Conception of Theoretical Biology," Paper presented at the Annual Meeting of the History of Science Society in Vancouver, November 2000
 - "The 'General' and the 'Theoretical': Reflections on the Origin of Theoretical Biology," Lecture, Department of Ecology and Evolutionary Biology, Yale University, September 2000
 - "Der Organismusbegriff in der modernen Biologie," Lecture, Department of Philosophy, Humboldt University, Berlin, July 2000
 - "Cassirer and Uexküll: Symbolic Forms, Theoretical Biology, and Politics," Paper delivered at the Symposium on Biology and Philosophy at the 3rd International Conference on the History of Philosophy of Science (HOPOS) in Vienna, Austria, July 2000
 - "Homology in Development and the Development of the Homology Concept," Paper delivered at the *Symposium on Evolutionary Developmental Biology: Paradigms, Problems and Prospects* at the Meeting of the Society of Integrative and Comparative Biology, Atlanta, January 2000

- 1999
- "Zur Friingeschichte der Theoretischen Biologie" Lecture at the Innovationskolleg Theoretische Biologie, Humboldt University, Berlin, November 1999
 - "Of Frogs, Flies, Dogs, Mice and Man: Reflections on the Role of Organismal Variation in the History of Biology," Abteilungskolloquium, Max Planck Institute for the History of Science, Berlin, November 1999
 - "Allgemeine **Biologie**: Between Conceptual Unification and Popular Synthesis of the Life Sciences" Lecture, Max Planck Institute for the History of Science, **Berlin**, October 1999
 - "Allgemeine Biologie: Between Conceptual Unification and Popular Synthesis of the Life Sciences," Paper at the Joint Atlantic Seminar in the History of Biology, Philadelphia, April 1999
- 1998
- "Organism and Character Decomposition: Steps towards an Integrative Theory of Biology," Paper with Gunter Wagner, **Biennial** Meeting of the Philosophy of Science Association, Kansas City, November 1998
 - "Oskar and Cecile Vogt: From the Neo-Cortex to Bumble **Bees**, an episode in the history of the biological character concept," Paper at the Joint Atlantic Seminar in the History of Biology, Baltimore, April 1998
- 1997
- "Is there an Organism in this Room?," Paper, Meeting of the International Society for the History, Philosophy and Social Studies of Biology, Seattle, with Gunter Wagner, July 1997
 - "Organisms in Context," Paper, Meeting of the International Society for the History, Philosophy and Social Studies of Biology, Seattle, with Gerry Geison, July 1997
- 1995
- "The Riddle of Context Dependency," Paper, Meeting of the International Society for the History, Philosophy and Social Studies of Biology, Leuven, July 1995
 - "Crossing Boundaries: Oskar And Cecile Vogt, **Brain** Research and Genetics," Paper, Meeting of the International Society for the History, Philosophy and Social Studies of Biology, Leuven, July 1995
- 1994
- "Wittgensteinian Biology" Paper, 5th Congress of the International Association for Semiotic Studies, Berkeley, June 1994
 - "The Semiotics of Biological Functions," Paper, 5th Congress of the International Association for Semiotic Studies, Berkeley, June 1994.
- 1993
- "**Biosemiotics**: A new way of **looking at biological Phenomena** ?," Paper, **Meeting of the International** Society for the History, Philosophy **and Social** Studies of Biology, **Brandeis** University, July 1993

Grants Awarded

Extramural:

- NSF: HSD *The Embryo Project: Agents of Scientific Change* (748K, co-PI, 1/2007 to 12/2009)
- Fellowship Grant, Max Planck Institute for the History of Science- Awarded for the following periods: May to July 2006, \$10,000; May to July 2005, \$10,000; January to July 2004, -\$25,000; May to July 2003, \$10,000; May to July 2002, \$10,000.
- NSF: IGERT: An Arts, Sciences and Engineering Research and Education Initiative for Experiential Media, \$3M, supporting faculty, (2005)
- 2005 NSF: Center for Nanotechnology in Society (CNS_ASU), \$6,2M, participating faculty, (2005)
- Konrad Lorenz Institute: Grant for the Symposium "The Waddington Centennial and the Legacy of Theoretical Biology"(Co-PI with Brian Hall) \$30,000, (2005)

- Max Planck Institute for the History of Science and Sonderforschungsbereich Theoretische Biologie, Grant for the Conference "Regulation: Historical and Current Themes in Theoretical Biology" June 10 to June 15 (Co-PI with Peter Hammerstein and Hans-Jorg Rheinberger), \$30,000, (2004).
- Dibner Institute: Grant for the Dibner Seminar, the Dibner Workshop, and a Volume in the MIT Press Dibner Series "From Embryology to Evo Devo," (Co-PI with Jane Maienschein) \$50,000, (2002)
- Konrad Lorenz Institute: Grant for the Symposium "The Vivarium Centennial," at the Austrian Academy of Sciences and the KLI (Co-PI with Gerd Muller) \$30,000, (2002)
- Max Planck Institute for the History of Science, Grant for the Workshop "Die Bedeutung des Allgemeinen in den Wissenschaften des 19. and 20. Jahrhunderts (Co-PI with Michael Hagner), \$10,000, (2002)

Arizona State University:

- Institute for Humanities Research, Research Incentive Award for the Embryo Project, Fall 2005, \$9,137
- OVPR Research Incentive for the Embryo Project Computing Equipment, Fall 2005, \$7004.
- SOLS Initiatives Grant for the Embryo Project Computing Equipment, Fall 2005, \$4,000
- SOLS Initiatives Grant for a planning workshop for the Embryo Project, Spring 2005, \$5,000.
- Grant from the College of Liberal Arts and Sciences for the Southwest Colloquium in the History and Philosophy of the Life Sciences, Spring 2002, \$10,000
- Multi-Investigator Proposal Development Grant "Visualization of morphological and gene expression patterns during tetrapod limb development and the creation of a dynamic database for limb development in the context of the GIS system" with Alan Rawls, \$20,000
- RIA for Creation of a dynamic database of morphological and gene expression patterns for tetrapod limb development, \$16,000
- Research Incentive for the Creation of a dynamic modeling platform and database for morphological and gene expression patterns, \$35,000.
- In addition, I receive research and conference travel support from the Center for Biology and Society at Arizona State University

Grants Pending

- NSF: IGERT: Computational Social Science, Proposal Invited (participating faculty)
- NSF: CAREER: Twentieth Century Theories of Development in Context. submitted

Editorial Boards and Professional Appointments

- Founding Associate Editor of the new journal *Biological Theory* (2004-present)
- Associate Editor, *Journal of Experimental Zoology: Part B (Molecular and Developmental Evolution)* (2006-present)
- Editorial Board, *Journal of Experimental Zoology: Part B (Molecular and Developmental Evolution)* (2004-2006)
- Subject Editor for the Series "Vignettes in the History of Evolutionary Developmental Biology," *Journal of Experimental Zoology: Part B (Molecular and Developmental Evolution)* (2004-present)
- Editorial Board, *Journal of the History of Biology* (2002-2008)
- Advisory Board, *History & Philosophy of the Life Sciences* (2003-present)
- Scientific Member and Counseling Scientist, Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria (2002-present)

Ad hoc Reviewer

Journals (Biology-30+) for: Nature Review Genetics, Evolution and Development, Journal of Experimental Zoology Part B: Molecular Developmental Evolution, Trends in Ecology &

Evolution, Ecosystems, Journal of Theoretical Biology, Acta Biotheoretica, Biological Theory, BioScience

Journals (History and Philosophy of Science – 15+) for: Journal of the History of Biology, Biology and Philosophy, Philosophy of Science, Studies in the History and Philosophy of Science, History and Philosophy of the Life Sciences, International Journal for the Philosophy of Science

University Presses and Publishers (10+) for: Cambridge University Press, MIT Press, Harvard University Press, Yale University Press, Princeton University Press, Springer Verlag/Kluwer Academic Publishers, W.W. Norton, Sinauer, Enslow Publishers

Funding Agencies and Research Institutes (5+) for: Wiener Wissenschafts-, Forschungs-, and Technologiefonds, Austria, Canadian Institute for Health Research, Konrad Lorenz Institute for Evolution and Cognition Research, Max Planck Institute for the History of Science

Teaching At Arizona State University

Semester	Course Number	Course Title	Hours	Students	
Fall 2001	Bio 311/HPS 340	Biology and Society	3		
Spring 2002	Bio 316/HPS 330	History of Biology	3		
	Bio 394BC/HPS 394	Lab History of			
	Bio 494/591/HPS 494	Seminar: History of Ecology	2		
	Bio 590	Reading and Conference	2	1	
	Bio 790	Reading and Conference	1	1	
	Bio 792	Research	4	1	
Fall 2002	Bio 311 /HPS 340	Biology and Society	3	90	
	Bio 310A	Special Problems and Techniques	3	10	
	Bio 591 /Phi 591	Seminar: Biology and Philosophy	2	14	
	Bio 499A	Individualized Instruction	3	1	
	Bio 590A	Reading and Conference	3	2	
	Bio 590A	Reading and Conference	2	1	
	Bio 590B	Reading and Conference	3	1	
	Bio 591K	Evolutionary Economics	2	1	
	Phi 590A	Reading and Conference	1	1	
	Bio 792A	Research	5	1	
	Bio 799A	Dissertation	6		
	Spring 2003	Bio 316/HPS 330	History of Biology	3	
		Bio 394B,C/HPS 394	Lab History of Biology	1	117
		Bio 492A	Honors Directed Study	3	
Bio 493A		Honors Thesis	4		
Bio 495A		Undergrad Thesis	3	1	
Bio 499A		Individualized Instruction	2	7	
Bio 499A		Individualized Instruction	3	4	
Bio 499A		Individualized Instruction	1	3	
Bio 590A		Reading and Conference	6	1	
Bio 591U		Seminar: Advances in Evolutionary Biology	1-2	13	
	Bio 792A	Research	11	1	
	Bio 799A	Dissertation	6	1	

Fall 2003	Bio 311 /HPS 340	Biology and Society	3	91
	Bio 494/Bio 591	Seminar: Global Change	2	15

Biology ** with Jason Kaye

Phi 790B				
Spring 2004	Bio 599	Thesis		
	Bio 799	Dissertation	11	1
Fall 2004	Bio 311/HPS 340	Biology and Society ** with Marty Anderies	3	100
	Bio 3	Special Problems and Techniques	1	1
	Bio 345	Organic Evolution ** with Thomas Dowling	3	111
	Bio 499A	Individualized Instruction	1	
	Bio 799A	Dissertation	4	
	Mas590 WXB	Biology and Society	3	1
Spring 2005	Bio 316/HPS 330	History of Biology	3	91
	Bio 394D	Lab History of Biology	1	14
	Bio 314	Bio and Soc Research Colloquium I ** with Jane Maienschein	2	18
	Bio 414	Bio and Soc Research Colloquium II ** with JM	1	15
	Bio 493A	Honors Thesis	3	1
	Bio 499A	Individualized Instruction	1	
	Bio 799A	Dissertation	6	
Fall 2005	Bio 311/HPS 340	Biology and Society ** with Marty Anderies	3	140
	Bio 394E	Genes, Development, and Evolution	3	28
	Bio 492A	Honors Directed Study	3	1
	Bio 590A	Reading and Conference	3	1
	Bio 595A	Cont. Registration	1	1
Spring 2006	Bio 792A	Research	6	2
	Bio 591A	Seminar: History of Biology	1	1
	Bio 591 A	Seminar: Topics in the Hist., Phil, and Theory of Biology	1	5
	Bio 591 A	Seminar: Trends Hist Bio	2	5
	HPS 494/Hon 494	Staging of Science	3	6

At Humboldt University

Spring 2004 Oberserninar Theoretische Biologie (with Peter Hammerstein)

At Yale and Princeton

Spring 2001 Freshman Seminar FRS 124 "Life as we know it: a History of Biology," seminar and laboratory in the history of biology, with Prof. Angela Creager.

Spring 2000 Preceptor and Lab Instructor HIS 396 "History of Biology" Prof. Angela Creager, duties included lecturing, designing and running labs, leading discussions and grading

Spring 1999 Preceptor MOL/WWS 320 "Human Genetics, Reproduction, and Public Policy" Prof. Lee Silver, duties included leading discussions and grading

Fall 1998 Preceptor HIS 394 "Doctors and Diseases in the Modern West" Prof. Gerald Geison; duties included lecturing, leading discussions, running the AV equipment, and grading

- Spring 1998 Preceptor HIS 396 "History of Biology" Prof. Angela Creager; duties included short presentations and demonstrations, leading discussion groups, and grading
- Spring 1997 Preceptor EEB/WOM 301 "Sociobiology, Sex Roles, and Human Development" Prof. Alison Jolly; duties included lecturing, leading discussions, and grading
- 1992-1996 Head Teaching Assistant in the two-term course "Evolution, Ecology and Behavior (EEB I & EEB II)" in the Department of Biology, Yale University. Duties included occasional lectures, leading seminars, grading, and supervision of other TAs.

Students

Ph.D. Students Advisor, current students

- Matt Chew, (SOLS, 2001- present, will defend in Fall 06)
- Brock Heathcotte (SOLS, 2003-present)
- Lydia Pyne (SOLS, 2005-present, co-advisor with Jane Maienschein)
- Stephen Dilley (Philosophy, 2005-present, co-advisor with Michael White)
- Marea Bagetta, (2004-present, currently leave of absence)

Completed Theses

- Root Gorelick, (2001-2004, Ph.D. awarded 2004. Held a AAAS Fellowship in Washington, D.C., now Assistant Professor of Biology at Carleton University, Ontario, Canada)

Ph.D Students Committee, current

- Mary Sunderland (SOLS, 2005-present)
- Jamie Jensen (SOLS, 2005-present)
- Matthew Laubacher (History, 2006-present)

Master's Students Advisor, current

- Heidi Ernst, (2003-; currently leave of absence and enrolled in the Ph.D. Program in History of Science at the University of Chicago)

Completed Theses

- Matt Shindell, (2001-2004, co-advisor with Jane Maienschein, currently in the Ph.D. program in History of Science at UC San Diego)
- Marea Bagetta, (2002-2004, currently on leave from the Ph.D. program in SOLS)
- Jessica Underwood (2003-2006, currently attending the Law School at DePaul University)

Master's Students Committee

- Natalia Bateman Vargas (MS, University of Sydney, Australia - 2002)
- Jennifer Minneci (2006-present)
- Brenda Flores (2005-present)

Honors Student Thesis Advisor

- Tara Retson (BS/Honors Biology 2006)
- Kiki Harbster (BS/Honors Biology - Biology and Society 2005)
- Angela Herro (BS. Honors Biology -Biology and Society 2003)

Honors Student Thesis Committees

- Gregg Helland (BS/ Honors Biology - Biology and Society 2003)
- Jessica Underwood (BS/Honors Biology -Biology and Society - 2003)
- Julie Story (BS/Honors Biology -Biology and Society - 2003)
- Ruben Rabassa (BS/Honors Biology -Biology and Society - 2003)
- North Noelck (BS/Honors Biology -Biology and Society - 2003)
- Kori Wallace (BS/Honors Biology - Biology & Society - 2002)

- Matthew Forrester (BS/Honors Biology - Biology & Society - 2002)
- Pooja Simh (BS/Honors Biology - Biology and Society- 2002)
- * In addition to serving on Honors Thesis Committees I have also advised more than 40 FN 18 Honors projects as part of my regular courses

Undergraduate Students Advisor

- Kal Clark, Embryo Project (2005- co-advisor with Jane Maienschein)
- Trevor Pirtle, Embryo Project (2006- co-advisor with Jane Maienschein)
- Kristin Bolfert, Embryo Project (2006- co-advisor with Jane Maienschein)
- Laura Hoff, (BREU 2002-2003)
- Lindsey Kramer, (BREU 2002-2003)
- Heidi Ernst, (BREU 2002)
- Alan Fortuna (2003-2004)
- Mia McNulty, co-advisor with Jane Maienschein
- Shawn Williams, SOLUR (2003-2005)

Technicians

- Colleen Burgess, (2001-2003)

Service at Arizona State University

- Biology & Society Program Steering Committee (2001-)
- Steering Committee Center for Social Dynamics and Complexity (2004-)
- SOLS Graduate Programs Committee (2005-)
- SOLS Facilities Committee (2005-2006)
- SOLS Undergraduate Programs Committee (2004-2005)
- Ad-Hoc Committee Graduate Concentration in Theoretical Biology (2004-)
- Search Committee Philosophy of Biology (2004-2005)
- Search Committee Philosophy of Biology (2005-2006)
- Search Committee Bioinformatics (2004-2005)
- Graduate Admissions Committee (2003-2004)
- Ad-Hoc Undergraduate Programs Reorganization Committee, School of Life Sciences (2003)

Collaborators:

My main ongoing collaborators are: (1) *International*: Hans-Jorg Rheinberger, director of the Max Planck Institute (MPI) for the History of Science in Berlin (papers and books on the Conceptual History of Theoretical and Developmental Biology, the Embryo Project, the Encyclopedia in the History of the Life Sciences), Christina Brandt, MPI Berlin (Embryo Project), Henning Schmidgen, MPI Berlin (Encyclopedia in the History of the Life Sciences), Peter Hammerstein, Chair of the Institute for Theoretical Biology at the Humboldt University, Berlin (Conceptual Foundations of Theoretical Biology), Gerd Muller, University of Vienna and Konrad Lorenz Institute for Evolution and Cognition Research (Conceptual Problems in Theoretical and Evolutionary Developmental Biology), Werner Callebaut, Universiteit Hasselt, Belgium and KLI (Biological Theory), Rasmus Winther, UNAM, Mexico (Conceptual Problems of Evolutionary Developmental Biology), Brian Hall, Dalhousie University, Canada (History of Evolutionary Developmental Biology), Michael Hagner, ETH Zurich (Cultural History of Science), Peter Stadler, Bioinformatics, Leipzig (Theoretical Biology); (2) *National*: Gunter Wagner, Yale University (Theoretical Biology and Evolutionary Developmental Biology) and several members of the Embryo Project Network and the Social Insect as Model System for Evo Devo Project, (3) *local at ASU*: my collaborators are in the Centers for Social Dynamics and Complexity and Biology and Society, the Social Insect Study Group, the History and Philosophy of Science Program, the Center for Science Policy and Outcomes, the Arts, Media, and Engineering Program (IGERT), and the School of Theater and Film (Science and Theater initiatives).

Other Professional Activities

2006

- Co-Organized the Southwest Colloquium in the History and Philosophy of the Life Sciences at UC Davis (April 2006)
- Organized the opening workshop of the Center for Social Dynamics and Complexity "Social Insects as a Model System for Evo Devo" (April 2006)
- Organized the first workshop of the Embryo Project "From Entwicklungsmechanik to Developmental Genetics" (October 2006)

2005

- Co-Organized the Southwest Colloquium in the History and Philosophy of the Life Sciences at Arizona State University.
- Co-organized a one-day workshop "The Embryo Project" at Arizona State University.
- Co-organized the interdisciplinary Conference "Arriving at a Theoretical Biology" at the Konrad Lorenz Institute, in Altenberg, Austria

2004

- Co-Organized the Southwest Colloquium in the History and Philosophy of the Life Sciences at the University of Texas, Austin.
- Organized a one-day workshop "Social Systems and Socio-complexity Research" at Arizona State University.
- Co-organized the six-day interdisciplinary Conference "Regulation: Historical and Current Themes in Theoretical Biology" at the Berlin-Brandenburg Academy of Sciences

2003

- Organized the Southwest Colloquium in the History and Philosophy of the Life Sciences at Arizona State University.
- Organized two sessions at the Vienna Meeting of the International Society for the History, Philosophy, and Social Studies of Biology.
- Organized a session at the Meeting at the History of Science Society.
- Co-organized and participated in the Theater and Science Writing Project at Arizona State University.
- Acted in the staged reading of "The Lives of the Cell" at the History of Science Society meeting.

2002

- Co-organized the workshop "Die Bedeutung des Allgemeinen in den Wissenschaften des 19. and 20. Jahrhunderts" at the MPIWG in Berlin (with Michael Hagner)
- Co-organized the symposium "The Vivarium Centennial" at the Austrian Academy of Sciences and the Konrad Lorenz Institute in Altenberg (with Werner Callebaut and Gerd Muller)
- Co-organized the workshop on the history of evolutionary developmental biology at the Dibner Institute in October (with Jane Maienschein)

2001

- Co-organized the 2001 Dibner Seminar in the History of Biology, "From Embryology to the Evo-Devo." with Jane Maienschein
- Co-organized a workshop on "Science and Theater" at Princeton University, with Gitta Honegger and Anthony Grafton

2000

- Organized a symposium on the History of Philosophy of Biology at the 3rd International Conference on the History of Philosophy of Science (HOPOS) in Vienna, Austria, July 2000
- Organized a session on "Constructing Cells and Growing Organisms: Topics in the History of Cytology and Developmental Biology" at the Annual Meeting of the History of Science Society in Vancouver, November 2000

1999

- Seminar Leader in the Dibner Institute Seminar "Why Ernst Haeckel?" at the MBL in Woods Hole, June 1999;

1998

- Participant and Commentator at the Symposium "Postgenomics" at the Max Planck Institute for the History of Science, Berlin, July 1998
- Organizer of the Symposium "The Organism in Philosophical Focus" at the Biannual Meeting of the Philosophy of Science Society, Kansas City, November 1998

1997

- Organized a session on "The Organism in History, Philosophy and Biology" at the ISHPSSB meeting in Seattle, July 1998
- Guest Editor for a Special Issue on Biosemiotics for the *European Journal for Semiotic Studies*

1995

- Organized sessions on the *History of German Genetics* and *Biosemiotics* at the ISHPSSB meeting in Leuven, July 1995

1992

- Participant in Dibner Institute Seminar on Individuality

Membership in Scientific and Professional Organizations and Appointments Outside of Arizona State University

- Scientific Member and Counseling Scientist, Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria
- Visiting Scholar, Max Planck Institute for the History of Science, Berlin, Department Rheinberger
- History of Science Society
- Philosophy of Science Association
- Society for Integrative and Comparative Biology
- International Society for the History, Philosophy, and Social Studies of Biology
- Deutsche Gesellschaft für Geschichte und Theorie der Biologie
- AAAS
- AIBS