

## CURRICULUM VITAE

**Peter K. Machamer**

### PERSONAL INFORMATION

Citizenship: USA

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Date of Birth: October 20, 1942

### ACADEMIC BACKGROUND

Columbia College, Columbia University, B.A. (1964)

Trinity College, Cambridge University, B.A. (1966), M.A. (1971)

University of Chicago, Ph.D. (1972) Thesis: *Points About Observation in Science*

### EMPLOYMENT

Instructor, 1967-1969, Illinois Institute of Technology

Visiting Instructor, Queens College, C.U.N.Y., Summer, 1968

Assistant Professor, Department of Philosophy, Ohio State University, 1969-1973

Associate Professor (with tenure), Department of Philosophy, Ohio State University, 1973-1976

Visiting Associate Professor, Department of History and Philosophy of Science, University of Pittsburgh, Fall term, 1975

Associate Professor, Department of History and Philosophy of Science, University of Pittsburgh, 1976-1978

Professor, Department of History and Philosophy of Science, 1978-present;

Chairman, 1978-1993

Associate Director, Center for Philosophy of Science, 1999-present

Resident Fellow, Center for the Philosophy of Science, University of Pittsburgh

Research Fellow, Learning and Development Research Center

Cultural Studies Program

Affiliated Faculty, Italian Studies

Rhetoric and Science Program, Department of Communication and Rhetoric

Center for Neural Basis of Cognition (CNBC)

Professore (a Contratto), Universita' degli Studi di Udine, Fall 1994

Visiting Professor (Fulbright Fellow), University of Athens and National Technical University of Athens, Spring 1996

Visiting Professor, National Technical University of Athens, Spring 1998

Visiting Professor, Bogazici University, Istanbul, Turkey, Summer 1998

Visiting Professor, University of Konstanz, Germany, Spring 2007

### FELLOWSHIPS AND GRANTS

Summer Research Grant, Ohio State University, Summer, 1970  
Grants-in-Aid, Center for Medieval and Renaissance Studies, Ohio State University, Fall, 1970  
NEH Curriculum Development Grant for Program in History of Scientific Theories/History of Philosophy, Ohio State University, 1972-1974, Assistant Director, (Robert G. Turnbull, Director)  
Grants-in-Aid, College of Humanities, Ohio State University, 1974-1975, 1975-1976  
U.S. Dept. of Education, Part of "Center for the Study of Learning" LRDC, "Children's Logic: Learning in the Syllogism" (with Merrilee Salmon and Lauren Resnick), 1987-present  
Mellon Foundation, Varieties of Reasoning in the Social and Natural Sciences, part on "Logical Reasoning and the Pragmatics of Conversation," LRDC, 1989-92  
Minor grants, University of Pittsburgh, personal and departmental  
GTE Lecture Series grant, Science and Technology, lecture series, 1989-90  
Pittsburgh Foundation, Vira Heinz Foundation, Henry Heinz Foundation, to the Laurel Initiative Workshop 1990, "Europe: Globalism, Nationalism, Ethnicity"  
R.K. Mellon Foundation, to the Laurel Initiative, 1991  
Fulbright Foundation, Senior Fellowship, lecture and research, Greece [University of Athens and National Technical University], Spring 1996  
NSF, "Values in Scientific Research", EVIST, Fall 1998  
Hewlett International Small Grant, UCIS, University of Pittsburgh (with J. E. McGuire), Fall, 2002  
NEH Summer Institute Grant, co-Director with Sandra Mitchell, "Science and Values", Summer 2003

### HONORS

Honorary Membership, Golden Key National Honor Society, initiated October 2000

### PUBLICATIONS

1. "Art and Morality" (with George W. Roberts), *Journal of Aesthetics and Art Criticism*, XXVI, 1968, pp. 515-519.
2. "Recent Work on Perception" *American Philosophical Quarterly*, 1969, 1-22.
3. "Personal Decisions and Universalizability," (with Ronald Laymon), *Mind*, 1970.
4. "A Theory of Critical Reasons" (with William Lycan), in B.R. Tilghman, ed., *Language and Aesthetics*, Kansas State University Press, 1971, 87-112.
5. "Observation," in R. Buck and R. S. Cohen, eds., PSA 1970 Boston Studies in the Philosophy of Science, Vol. 8, D. Reidel and Humanities Press, 1971, 187-201.
6. "A Recent Theory/Observation Drawing," *Philosophy of Science*, 38, September 1971.
7. *Aristotle*, A teaching module for Empire State University, S.U.N.Y., 1973.
8. "Feyerabend and Galileo: The Interaction of Theories and the Reinterpretation of Experience" *Studies in the History of Philosophy of Science*, 4, 1973, 1-46.

9. "Understanding Scientific Change," *Studies in History and Philosophy of Science*, 5, 1975, 373-381
10. "Causality and Explanation in Descartes' Natural Philosophy," in P. K. Machamer and R. G. Turnbull, eds., *Motion and Time, Space, and Matter*, Ohio State University, 1976, 168-199.
  11. Edited (with Robert G. Turnbull), *Motion and Time, Space, and Matter*, (Ohio State University Press), 1976.
  12. "Fictionalism and Realism in 16th Century Astronomy," in R.S. Westman, ed., *The Copernican Achievement*, University of California Press, 1976, pp. 346-353.
13. *Perception: An Annotated Bibliography* (with Kathleen Emmett), New York: Garland Press, 1976, x+177 pages.
14. Edited (with Robert G. Turnbull), *Perception: Historical and Philosophical Studies*, Ohio State University Press, 1978, ix+576 pages.
15. "Gibson and the Conditions for Perception," in (14) above. 435-466.
16. "Teleology and Selective Processes," in R. Colodny, ed., *Logic, Laws, and Life: Some Philosophical Complications*, Pittsburgh Series in Philosophy of Science, University of Pittsburgh Press, 1977, 129-142.
17. "Galileo and the Causes," in R. Butts and J. Pitt, eds., *New Perspectives on Galileo*, Reidel: University of Western Ontario Series in the Philosophy of Science, 1978, 161-180.
18. "Aristotle on Natural Place and Natural Motion," *Isis*, 69, 1978, 377-387.
19. "Improvement in Wine Discrimination" (with Dean Owen) *Perception* 8, 1979, 199-209.
20. "Theories of Perception and Theories of Art," in John Fisher, ed., *Perceiving Artworks*, Philadelphia: Temple University Press, 1980.
21. "The Harmonies of Descartes and Leibniz," *Midwestern Studies in Philosophy*, 1983.
22. Editor, *Naturalistic Epistemology*, a collection of original essays, *Synthese*, 1985.
23. Editor with Arthur Fine, *PSA 1986*, Vol. I (PSA Proceedings) 1986.
24. Editor with Arthur Fine *PSA 1986* Vol. II, 1988.
25. and Spyros Sakellariadis, "The Unity of Hobbes' Philosophy" *Hobbes and the World Order*, London: Gower, 1989.
26. "Nothing is Not Negligible" *Critical Quarterly*, June 1988.
27. "Crises and Cures in Contemporary Society," *Critical Quarterly*, 32, 2, 1990, 79-87.
  28. Edited, *The Information Society and Human Values*, The Laurel Initiative Reader I. 1989.
  29. "An Overview of Philosophy of Science: Its concepts and examples useful for teaching science," Volume published by BSCS & SSEC group, 1990; reprinted *Science and Education* 4, 1995, 147-59.
  30. "Ethics and News," (with Barbara Boylan) *Business & Professional Ethics Journal*, 1991, 53-64.
31. Edited, "Europe: Globalism, Nationalism and Ethnicity", The Laurel Initiative Workshop 1990.
32. "Person Centered Rhetoric of Seventeenth-Century Science", *Persuading Science*, ed. Marcello Pera and William Shea (Science History Publications, 1991, & in Italian in Pera e Shea *L'arte della persuasione scientifica* (Milano: Guerini, 1992).
33. "Philosophy of Psychology" chapter in *Philosophy of Science*, by the Department of History & Philosophy of Science, Merrilee Salmon, et al.

- University of Pittsburgh, (Prentice-Hall, 1991). [Reprinted by Hackett Publishing: 1999; Greek edition, 1999]
34. Edited, *The Free Press: Responsibilities and Realities* for the Laurel Initiative, 1993.
  35. "Freedom, and Privacy Information." (with Barbara Boylan) *Professional Ethics* 12: 1993, 47-68.
  36. "A Model of Intelligibility: Using the Balance as a Model for Understanding the Motion of Bodies" with Andrea Woody, *Science and Education* 3 (3) 1994, 215-244.
  37. "Selection, Systemics and Historiography" *Trends in the Historiography of Science*, Kostas Gavroglu, et al. Eds. Kluwer 1994, 149-160.
  38. "Models of Thought," *Iride* (Firenze), 10, 1992-93. 7-22.
  39. "New Light on Galileo: 'Comments on Rivka Feldhay'" in H. Krips, J.E. McGuire, T. Melia, eds. *Rhetoric and Science*, University of Pittsburgh Press, 1997.
  40. "Kitcher and the Achievement of Science," *Philosophy and Phenomenological Research*, LV, 1995, 629-636.
  41. "The Meaning of Metaphor" *Blick und Bild*, Schriften der Academie du Midi, Bd.III, eds.. Tilghman Borshe, Johann Kreuzer, & Christian Strub, Munchen: Wilhelm Fink Verlag 1998, 247-263.
  42. "Individual and Other Person Morality: A plea for emotional responses to ethical problems" in A. Wusterhube & M. Quante eds., *Pragmatic Idealism; Critical essays on Nicholas Rescher's System of Pragmatic Idealism*, Rodopi, 1998, 73-84.
  43. edited with Martin Carrier, *Mindscapes: Philosophy, Science and the Mind*, UVK.Universitätsverlag Konstanz/University of Pittsburgh Press, 1997
  44. "Colors and Cognitive systems: comments to Hardin" in (43) above, 113-117.
  45. Editor, *Cambridge Companion to Galileo*, Cambridge University Press, 1998.
  46. "Introduction" in (45) above, 1-26.
  47. "Galileo's machines, his mathematics, and his experiments" in (45) above, pp. 53-79
  48. and Heather Douglas, "How Values Are In Science", *Critical Quarterly*, 40:2, 1998, 29-43, Symposium with Alan Sokal and Stanley Aronowitz.
  49. and Heather Douglas, "Cognitive and Social Values" *Science and Education*, 8, 1999,45-54
  50. "Galileo's Rhetoric of Relativity" *Science and Education* 8:2, 1999, 111-120.  
Reprinted in Enrico Gianetto, Fabio Bevilacqua and Michael Matthews, eds. *Science Education and Culture: The Role of History and Philosophy of science*, Kluwer 2001.
  51. "Hobbes, Language, and the Kingdom of Darkness" in M. Mamiani ed. *Scienza e Sacra nel XVII secolo*, Istituto Italiano per gli Studio Filosofici, Napoli, Vivarium 2000, 157-173.
  52. Editor and Introduction (with A. Baltas and M. Pera) *Scientific Controversies*, Oxford UP, 2000.
  53. "Individualism and the Idea(1) of Method" in *Scientific Controversies* in (51) above, 81-99.
  54. and Lindley Darden and Carl Craver, "Thinking About Mechanisms", *Philosophy of Science*, 67, March 2000, 1-25. *MOST CITED article in Philosophy of Science, 2003-2010.*
  55. and Lisa Osbeck, "The New Science of Learning: Mechanisms, Models, and

- Muddles", *Themes in Education* (Greece), 1, 1, March 2000, 39-54.
56. P. Machamer, P. McLaughlin and R. Grush, eds. and introduction, *Theory and Method in the Neurosciences*, University of Pittsburgh Press, 2001.
57. "The Nature of Metaphor and Scientific Descriptions" in Fernand Hallyn, ed., *Metaphor and Analogy in the Sciences*, Kluwer, 2000, 35-52.
58. "Die philosophische und wissenschaftliche Revolution und das Zeitalter Barock" in *Barock: Neue Sichtweisen Einer Epochee*, Peter Burgard, ed., Bohlau: Wien 2001, 189-202.
59. and Lisa Osbeck "Perception, Conception, and the Limits of the Direct Theory" *The Philosophy of Marjorie Grene*, The Library of Living Philosophers XXIX, edited by Randall E. Auxier and Lewis Edwin Hahn, Open Court 2002, 129-146.
60. "17<sup>th</sup> Century Demonstrations" in Wolfgang Dettel, & Claus Zittel (eds.) *Wissensideale und Wissenskulturen in fruhen Neuzeit. [Ideals and Cultures of Knowledge in Early Modern Europe. Concepts, Methods]*, 2002, *Historical Conditions, and Social Impact*, Akademie-Verlag Berlin, Berlin 2002.
61. and Francesca Di Poppa "Rational Reconstructions Revised", *Theoria*, 16 (2001), 461-480.
62. Editor with Michael Silberstein, *Blackwell's Guide to Philosophy of Science*, Basil Blackwell, 2002.
63. "Brief Historical Introduction to Contemporary Philosophy of Science" in (62) above
64. "Memory Experience and Action In Aristotle" *Aristotle Today International Conference*, Noussa 2002, 361-386 (English, and Greek Translation by Renia Gasparatou)
65. and Brian Hepburn, "Galileo and the Pendulum; Latching onto Time", *Science and Education*, 2004; also in Michael R. Matthews (ed.), *Proceedings of the International Pendulum Project*. Volume 2, Sydney, Australia: The University of South Wales, (2002), 75-83.
66. and Lisa Osbeck, "Scientific Normativity as Non-Epistemic: A Hidden Kuhnian Legacy" *Social Epistemology*, 2003. 3-12.
67. "Humanities and Natural Science" *Avalon, Revista de Humanidades*, (Humanidades campus de Ferrol), 2003, 26-28.
68. "Activities and Causation: The Metaphysics and Epistemology of Mechanisms", *International Studies in the Philosophy of Science*, 2004, 187, 1, 27-39.
69. and Zvi Biener, "Physics and Mechanics" in *Europe 1450-1789: Encyclopedia of the Early Modern World*. New York: Charles Scribner's Sons, 2004.
70. "El éxito de Kuhn, 40 años después", in Gonzalez, W. J. (ed.), *Análisis de Thomas Kuhn: Las revoluciones científicas*, Madrid, Trotta, 2005.
71. "Las revoluciones de Kuhn y la Historia 'real' de la Ciencia: El caso de la revolución galileana", in Gonzalez, W. J. (ed), *Análisis de Thomas Kuhn: Las revoluciones científicas*, Madrid, Trotta 2005.
72. and Francesca Di Poppa, "Monism", *Dictionary of the History of Ideas*, Charles Scribner's Sons, 2005.

73. and Francesca Di Poppa "Dualism", *Dictionary of the History of Ideas*, Charles Scribner's Sons, 2005.
74. and Lisa Osbeck, "The Social in the Epistemic" in Peter Machamer and Gereon Wolters, eds. *Science, Values and Objectivity*, University of Pittsburgh Press, 2004. Pp. 78-89.
75. and Gereon Wolters, editors and "Introduction: Science, Values and Objectivity" in Peter Machamer and Gereon Wolters, eds. *Science, Values and Objectivity*, University of Pittsburgh Press, 2004.
76. and Francesca Di Poppa, "18<sup>th</sup> Century Materialism" *Dictionary of the History of Ideas*, Charles Scribner's Sons, 2005.
77. "The Rhetoric of 17<sup>th</sup> Century Mechanisms" in Fernand Hallyn, ed., *Archives Internationales d'Histoire des Sciences*, 154, 2005, 25-34.
78. "Galileo Galilei", *The Stanford Encyclopedia of Philosophy* (Revised May 2009; original Spring 2005 Edition), Edward N. Zalta (ed.). URL = <<http://plato.stanford.edu/archives/spr2005/entries/galileo/>>.
79. "Kuhn's Philosophical Successes?" in S. Vosniadou, A. Baltas, and Xenia Vamvakoussi, eds. *Re-framing the Conceptual Change Approach in Learning and Instruction*, Elsevier - Series on Advances in Learning and Instruction, in press.
80. and Justin Sytsma, "Neuroscienze e natura della filosofia" *Iride* (in Italian, translated by Alessandro Pagnini), 46, 2005, 495-514.
81. and J.E. McGuire, and Justin Sytsma, "Descartes on Causation in the World of Matter" *Philosophica*, 76, 2005, 11-44.
82. "Philosophy and Neuroscience: The Problems" in Gonzalez, W. and J. y Alcolea, J. (eds.), *Contemporary Perspectives in Philosophy and Methodology of Science*, A Coruña (Spain), Netbiblo, 2006, 183-198.
83. and J.E. McGuire "Descartes Changing Mind" *Studies in History and Philosophy of Science*, 37, 2006, 398-418.
84. and Justin Sytsma, "Neuroscience and Theoretical Psychology: What's to worry about?" *Theory & Psychology* 17 (2), 2007, 199-216. Reprinted in Henderikus Stam, ed. *Theoretical Psychology – Contemporary Readings*, SAGE Publications Ltd., December, 2011.
85. "Good Beer, or How Properly Dispute Taste" in Steven Hales, ed., *Blackwell Guide to Beer and Philosophy*, Oxford: Basil Blackwell, 2007, 52-63.
86. Editor with Gereon Wolters, *Studies in Causality: Historical and Contemporary*, University of Pittsburgh Press, 21, 2007.
87. "Daniela Bailer-Jones, 1969-2006" *International Studies in the Philosophy of Science* 2007, 211-212.
89. "Descartes' Dispositions" in Gregor Damschen, Robert Schnepf, and Katsten Stüber eds., *Debating Dispositions: Issues in Metaphysics, Epistemology and Philosophy of Mind* DeGruyter. 2009, pp. 71-78.
90. "Neuroscience, Learning, and the Return to Behaviorism" John Bickle, ed., *Philosophy of Neuroscience*, Oxford University Press, 2009, 166-176.
91. Michael Ford and Peter Machamer, Critical Review of Nola and Irzik, *Science Education* newsletter, May 2008.
92. and J.E. McGuire, *Descartes' Changing Mind*, Princeton University Press, August

2009.

- Library Journal*. Com says this was 17<sup>th</sup> best selling philosophy book in 2009.  
<http://www.libraryjournal.com/article/CA6710206.html?q=Machamer>
93. Peter K. Machamer & Drozdostoy Stoyanov, "The Scientification Project in Psychiatry-a Pittsburgh perspective" *International Annual of History and Philosophy of Medicine "ASKLEPIOS"* (Bulgaria), Vol. III (XXII), 2009.
94. "Philosophy of Science and the Study of Religion" *Religion*, 4:39, 356-360.
95. edited (with Jochen Apel, Monika Dullstein, and Pavel Radchenko) *Phenomena, Theories, and Data*, a special issue of *Synthese*. 182 (2011). Also in this volume my introduction "A Brief Prolegomena to Phenomena", pp. 1-5.
96. "Galileo Galilei", *The Stanford Encyclopedia of Philosophy* (Revised May 2009; original 78, above, (2005). Edward N. Zalta, (ed.).  
URL = <<http://plato.stanford.edu/archives/spr2005/entries/galileo/>>.
97. Co-editor with Gereon Wolters, *Interpretation*, University of Pittsburgh Press, forthcoming.
98. "Some Cogitations on Interpretation" in 97 above.
99. Forward to Athanassios Raftopoulos, *Cognition and Perception: How Do Psychology and Neural Science Inform Philosophy?* MIT Press: A Bradford Book 2009, ix-xi.
100. and Justin Sytsma "Philosophy and the Brain Sciences" *Iris* (Italy), January 2010.
101. Jim Bogen and Peter Machamer, "Mechanistic Information and Causal Continuity" in Phyllis McKay Illari, Federica Russo, and Jon Williamson, eds., *Causality in the Sciences*, Oxford University Press, 2010, pps. 845-864.
102. and Lisa Osbeck, "Action, Perception, and Reference" in A. Raftopoulos and P. Machamer, eds. *Perception, Realism, and Reference*, Cambridge University Press, 2012, pp.142-160..
103. A. Raftopoulos and P. Machamer, eds. "Introduction", *Perception, Realism, and Reference*, Cambridge University Press, 2012.
104. "Reception and Influence of Galileo's *Sidereus Nuncius* (and the fate of Galileo's Spyglass)" *Galileo's Sidereus Nuncius*, Daniel DeSimone, ed., Library of Congress Publications and Levenger, 2013.
105. "Animals and Human Thoughts" *Animals*, Edited by Andreas Blank  
Series: Basic Philosophical Concepts, Munich: Philosophia.
106. Drozdostoj St. Stoyanov, Peter K. Machamer and Kenneth Schaffner, "Rendering clinical psychology as evidence-based scientific discipline" *Journal of Evaluation in Clinical Practice* 17: 6, December 2011. Commentaries by P. Zachar & M. Aragona.
107. "The Philosophy of Thomas Hobbes: Monist, Materialist and Mechanist" *HYBRIS* (Polish on line philosophy journal), October 2012, <http://www.filozof.uni.lodz.pl/hybris/periodyk.htm>
108. and J.E. McGuire, and Hylarie Kochiras, "Newton and the Mechanical Philosophy: Gravitation as the Balance of the Heavens" *Southern Journal of Philosophy*, 50:3, Special Issue, September 2012, 370-388.

109. D. Stoyanov, P. K. Machamer, K. S. Schaffner, and R. Rivera-Hernandez, "The challenge of psychiatric nosology and diagnosis", *Journal of Evaluation in Clinical Practice*, 2012, pp. 1-6. On line.
110. D. Stoyanov, P. K. Machamer, K. S. Schaffner, and R. Rivera-Hernandez, "The meta-language of psychiatry as cross-disciplinary effort: In response to Zachar (2012)" *Journal of Evaluation in Clinical Practice*, 2012, 11 pp. On line.
111. and Thomas Cunningham, "Mechanism", in *Encyclopedia of Science Education*, ed. Richard Gunstone, Monash, Springer, forthcoming.
112. "Galileo" in *Descartes Lexicon*, Larry Nolan, ed., Oxford, forthcoming.
113. and Mary Domski, "Descartes's Physics" in *Descartes Lexicon*, Larry Nola, ed., Oxford. Forthcoming.
114. and Marcus Adams, "Descartes on Intuition and Ideas" in Barbara Held and Lisa Osbeck, eds., *Rational Intuition*, Oxford. Forthcoming
113. "In Quest for Scientific Psychiatry: Bridging the Explanatory Gap" D. Stoyanov, P. Machamer and K. Schaffner, *Philosophy, Psychiatry & Psychology* 20, Sept. 2013, pp. 261-173.

Also by Peter Machamer, *Eating, Drinking and Living Well in Pittsburgh; An idiosyncratic guide to city spots* (privately printed, August 2004—out of print) and over 700 popular newspaper and magazine articles on wine, food, and culture topics.

## REVIEWS

About six dozen book reviews in *Science*, *Isis*, *Philosophy of Science*, *Ohio Journal of Science*, *American Physicist*, *British Journal of the Philosophy of Science*, *Journal of the History of Philosophy*, *Endeavor*, *Review of Metaphysics*, *Science and Education*, *Journal of Wine Research*, etc.

## CURRENT PROJECTS (selected)

- The Many mechanisms that might explain MDD.
- The Validity of Diagnoses of Depression (MDD).
- “ “Explaining Mechanisms” (Draft posted on PhilSci Archives)
- “The Many Manners of Explaining Persons”
- “Models as Models of Mechanisms”
- “On interpretation: Evaluations and values in art and science” (70 pp. Mss completed in draft; another 100 pp. Or so to come.)
- "Leveling Reduction" with Jacqueline Sullivan, paper in draft.
- A History and theory of the Emotions and Identity.
- Metaphor and Descriptions.
- The Legacy of Claudio Monteverdi
- Book on Freud
- Cooking, Eating, and Drinking Philosophically: a cookbook and guide*, with Jim Bogen.

## DISSERTATIONS DIRECTED:



Henry Frankel (1974, OSU) "Scientific Explanation: Mechanisms"

Patrice Loose (1978, OSU) "Roger Bacon's Theory of Science"

Spyros Sakellariadis (1980, Pitt) "Descartes' Empirical Philosophy"

Warren Schmaus (1980, Pitt) "August Comte"

Sandra Mitchell (1988, Pitt) "'Why' Questions: Functional Explanations in Biology and Anthropology"

Martha Harty Scheines (1988, Pitt) "Freud and Malinowski and the Origins of Modern Anthropology"

Marta Spranzi Zuber (1997, Pitt) "Galileo's Dialectic"

Carl Craver, (1998, Pitt) "Mechanisms and Explanations in Neuroscience"

Heather Douglas, (1998, Pitt) "The Use of Science in Policy-Making: A Study of Values in Dioxin Science"

Tom Seppalainen (1999, Pitt) "Reductionism and the Scientific Theory of Colors"

Gualtiero Piccinini, (2003, Pitt) "Computation and Computers in the Sciences of the Mind and Brain"

Uljana Feest, (2003, Pitt) "Operationism, Experimentation and Concept Formation"

Melis Erdur, co-director with Gurol Irzik, (May 2004) MA Thesis, Bogazici University, Istanbul Turkey, "The Relativistic *Apriori*"

Erik Angner, (2005, Pitt) "Conceptions of well being in philosophy, psychology and economics."

Andrea Scarantino, co-director with Paul Griffiths, (2005, Pitt) "Explicating Emotions"

Francesca di Poppa, (2006, Pitt) "'*God acts from the laws of his nature alone*': From the *nihil ex nihilo* axiom to causation as expression"

David Miller, co-director with J.E. McGuire, (2006, Pitt) "Representations of Space in Seventeenth Century Physics"

Abel Franco, co-director with J.E. McGuire, (2006, Pitt). "Descartes' Theory of the Passions"

Jacqueline Anne Sullivan, (2007, Pitt) "Reliability and Validity of Experiment in the Neurobiology of Learning and Memory "

Brian Hepburn, (2007, Pitt) "Equilibrium in 18<sup>th</sup> Century Mechanics"

Zvi Biener, co-director with J.E. McGuire, (2008; Pitt) "Breaking the Middle (middle sciences in 16-17<sup>th</sup> century)",

Julie Zahle, co-director with Robert Brandom, (2009, Pitt) "Perceiving Practices".

Brett Caloia. Philosophy, co-director with Michael Thompson, "Emotions Intuition and Rationality: A Dual Process Theory" (Aug. 2011; Pitt).

Benjamin Goldberg, co-director with James Lennox, 17<sup>th</sup> Century Theories of matter and generation (July 2012; Pitt).

Catherine Stinson, co-director with Kenneth Schaffner, the concept of attention and control in psychology and neuroscience (2014).

Peter Distelzweig, co-director with James Lennox, "Harvey and the Mechanical Philosophy" (2012).

Thomas Cunningham, co-director with Ken Schaffner, "Shared Decision Making in Medicine" (2012).

Marcus Adams, "Hobbes' Mixed Science, Mechanisms, and the Unity of his Philosophy" (2013)

Katherine Tabb, co-director with Kenneth Schaffner, "The Association of Ideas as a Medical Explanation"(2014).

Joseph McCaffrey, co-director with Edouard Machery, "fMRI as a reach tool in Cognitive Neuroscience" (in progress).

Also numerous doctoral committees in Philosophy, History and Philosophy of Science, History, Psychology, Art History, French, Business School, Education, and Slavic (about 90, and doctoral and habilitation defense committees in Germany, Turkey, Greece, and Belgium).

Directed many Undergraduate Teaching and Research Fellowships and B.Phil. theses.  
Mentor for many First Experiences in research.

### REFEREE FOR

Philosophy of Science, Journal for the Theory of Social Behavior, British Journal of the Philosophy of Science, American Philosophical Quarterly, Erkenntnis, Journal of Aesthetics and Art Criticism, Philosophy and Phenomenological Research, British Journal for the History of Science, Studies in History and Philosophy of Science, Isis, Science, History of Philosophy Quarterly, Synthese, etc.

Many book publishers (Oxford, Cambridge, Chicago, MIT, Notre Dame, Pittsburgh, Springer, etc.)

National Science Foundation: History and Philosophy of Science and EVIST

National Endowment for the Humanities

CIVR Experts Board (Italy)

Research Council of Norway

Canadian Research Council

Agence Recherche (France)

FNRS, Belgium

Killiam Grant (Canada)

### PRESENTATIONS

"Feyerabend and the Critics of Positivism," Ohio State University Philosophy Colloquium,

May 1969.

"The Discovery of the Telescope," the National Museum of Science and Technology at the University of Ottawa, November 1969.

"A Theory of Critical Reasons," (with William Lycan), The American Society of Aesthetics Meeting. October 1969.

"Man's Place in the Concept of Nature," Faculties of Botany Genetics, and Entomology, The Ohio State University, February 1970.

"Theory and Observation," Ohio State University Philosophy Colloquium, Summer 1970.

"Observation," Philosophy of Science Association Meetings, October 1970.

Debate on "Can Machines Think?" Kenyon College, October 1970.

Reply to Raymond Martin's "Singular Causal Explanations," American Philosophical Association, Western Division Meetings, Chicago, May 1971.

"Perceptions," Ohio State University Philosophy Colloquium, Summer 1971.

"Feyerabend on the Role of Auxiliary Hypotheses in Science," Ohio State University Philosophy Colloquium, Fall 1971.

"Perception" Two-day lecture at Pitzer College and Claremont Graduate School, January 1972.

"Logical Positivism and its Recent Critics," Colloquium of Biophysics Department, Ohio State University, Spring 1972.

"The Function of Natural Place in Aristotle's Physics," The History of Science Society, Midwest Junto, Madison, Wisconsin, April 1972.

"Physicists and Philosophers," Physics Department Graduate Students, Ohio State University, October 1972.

"Aristotle's Conception of Natural Place," American Philosophical Association Meetings, Eastern Division, December 1972.

"Kepler's Virtus," Workshop in the Mechanical Philosophy, First Annual University of Philosophy/Carnegie-Mellon University Workshop on the History of Science, January 1973.

"Aquinas on the 'Special Objects' of Sense," Kalamazoo Conference on Medieval Studies,

May 1973.

"A Causal Theory of Perception," Faculty Seminar, University of Glasgow, October 1973.

"Reactions to Copernicus: Comments on Westman," in U.C.L.A. Conference on the Achievement of Copernicus, November 1973.

"Functional Theories of Perception," Workshop on Images, Perception, and Knowledge, The University of Western Ontario, May 1974.

"Causality and Explanation in Descartes," University of Cincinnati, May 1974.

"Gibson and the Conditions for Perception," Perception Conference, Ohio State University,

June 1974.

"Galileo and the Causes," New Perspectives on Galileo Workshop, Virginia Polytechnic Institute and State University, October 1975.

"Conceptus Scientiae," Symposium Paper, History of Science Society, Atlanta, Georgia, December 1975.

"Galileo and the Four Causes," Pitzer College and the Claremont Graduate School, April 1976.

"The Aesthetics of Taste," Symposium Paper, Pacific Division American Society for Aesthetics, Asilomar, California April 1976.

"Causation and Explanation," Invited Paper, Western Division Meetings, American Philosophical Association, New Orleans, April, 1976.

"Hume on Nature," Hume Bicentennial Conference, Montreal, September, 1976.

"Improvement in Wine Discrimination without Criterion Shift," with Dean Owen, Psychonomic Society, St. Louis, November 1976.

"Descartes and Hobbes," Symposium Paper, History of Science Society, Philadelphia, December 1976.

"Descartes and the Jesuits: The Medieval and Renaissance Background of

Modern Philosophy." Medieval and Renaissance Center Lecture Series, University of Pittsburgh, February, 1977.

"Descartes: A Strange Father of Modern Science," University of North Carolina at Greensboro, March 1977.

"Problems with Rationality: Comments on Laudan," University of Western Ontario Workshop in History and Philosophy of Science, Benmiller, Ontario, May 1977.

"Improving Wine Discrimination," (presented by Dean Owen), American Psychological Association Meeting, San Francisco, August 1977.

"The Concept of Representation in Psychology," Perception Interest Group, Department of Psychology, University of Pittsburgh, November 1977.

"Theories of Perception," Center for Philosophy of Science, University of Pittsburgh, February 1978 (informal meetings).

"Descartes and his Predecessors," Boston University Colloquium in Philosophy of Science, Boston University, February, 1978.

Mini-seminar on Theories of Perception, Department of Linguistics and Philosophy, M.I.T., March, 1978 (5 lectures).

"Problems with Stimuli and Representation," Tufts University March, 1978.

"Scotus on Relations and *Haecitatis*," Brandeis University March, 1978.

"Objects of Perception and the Perception of Objects," Two lectures, S.U.N.Y. College at Oswego, April 1978.

"Philosophical Problems of Perception," Denison University, May 1978.

"Descriptions of Taste in Wine Discrimination," (with Charles Perfetti), Psychology Department, University of Pittsburgh, February 1979.

"Theories of Perception in Conflict," Undergraduate Philosophy Club, University of Pittsburgh and Carnegie-Mellon University, April 1979.

"The Role of History and Philosophy of Science in Science Studies," Virginia Polytechnic Institute and State University, May 1979.

"The Nature of Psychology and the Philosophy of Science," Virginia Polytechnic Institute and State University, May 1979.

"Images, Propositions, and Representation," University of Utah, May 1979.

"Hobbes' Endeavors," Hobbes Tercentenary Congress, Boulder, Colorado, August 1979.

"Descartes' Cosmological Vision," Johns Hopkins University, November 1979.

"Representation and Reference," University of Missouri, St. Louis, January 1980.

"Psychology, Philosophy, and Perception," Virginia Commonwealth University, April, 1980.

"Comments on Ockham's Logic and Science," Western Division APA, Detroit 1980.

"Use and Abusing Human Subjects," Symposium of the Institutional Review Board for Human Experimentation, Pittsburgh, September 1981.

"The Scope of Naturalistic Epistemology," Workshop on Naturalistic Epistemology, University of Pittsburgh, May 1981.

Panel discussion on Perception and Cognition, International Society for Ecological Optics, University of Hartford, January 1982.

"Perception and Wine Experiments," University of Richmond, April 1982.

"J.J. Gibson's Theory of Perception," Western Division, American Philosophical Association, Columbus, April 1982.

"Descartes and Leibniz and the Laws of Conservation: Reply to Dan Garber," Leibniz Society of America, Columbus, April 1982.

"Changing Explanations of Adaptation Experiments," Cheiron: Society for History of Behavioral Sciences, Newport, June 1982.

"Science and Philosophy in the 17th Century," Ohio State University, May 1983.

"Experiment and Theory in Ecological Psychology," invited address, International Society for Ecological Psychology, Vanderbilt Univ. (Nashville), June 1983.

"Theory and Theory Construction in Psychology," Arizona State University, September 1983.

"Psychology as a Science," Honors Students lecture, University of Pittsburgh, February 1984.

"Orwellian Visions," Symposium, Orwell Celebration, Pittsburgh Theological Seminary, March 1984.

"Philosophy of Science in Today's University," Ohio State University March 1984.

"Philosophy and Social Sciences," Aix-en-Provence, May 1984.

"Faculties versus Mechanisms of Perception," History of Science Society, December 1984.

"Evolutionary Explanations and Sociobiology," University of Missouri at Kansas City, February 1985

"The Lead Problem and Its History," Grant Round, University of Missouri (Kansas City) Medical School, February 1985.

"Why Freud was Right (Almost!)," University Honors Students, University of Pittsburgh, February 1985.

"Cognition and Computation," APA Western Division (Symposium with Jerry Fodor and Jon Barfield), San Francisco, March 1985.

"Semiotics, Semantics and Sense," American Aesthetic Association, Asilomar, April 1985.

"Kepler and the Forces," History of Science Society; Bloomington, Indiana, November 1985, (Symposium with William Donahue, Steve Straker and Curtis Wilson).

"Freud on Feminism," Pitt Philosophy Club, October 1985.

"Aesthetics and Science," University Honors Students, November 1985.

"Visual Metaphors," Western Division APA, March 1986.

"Galileo and Descartes on Thought Experiments," Thought Experiment Workshop, Philosophy of Science Center, University of Pittsburgh, April 1986.

"Technology and its Effects," Freshman Engineering Seminar, Pitt, November 1986.

"Galileo, Descartes and Newton: Natures and the Nature of Science," Catholic University of America, November 1986.

"Medical Science and Values," Health Policy Institute Lecture Series, University of Pittsburgh, January 1987.

"Aesthetics and Art History," Fine Arts Colloquium, University of Pittsburgh, February 1987.

"History of the Calculus," lecture to Pittsburgh area High School Science Teachers (day long seminar run by Henry Cohen). April 1987.

Machette Visiting Scholar, Western Maryland College. 3 Public lectures: "Freud and Feminism," "The Cognitive Revolution," "God and Science in the 17th Century," 3 course lectures: "Descartes and the History of Modern Philosophy," "Meaning in Films," "Science and Values," April 1987.

"Newton and the Nature of Motion," Public Lecture, Denison University; also next day a Philosophy Department Lecture; "Aristotle's Science," April 1987.

"The Unity of Hobbes' Thought," Invited Lecture, International Hobbes Society Congress, University of Helsinki, Finland. May 1987.

"Contemporary Issues in Philosophy of Science," National Technical University, Athens, Greece. May 1987.

"Models for thinking about the relations between sound and sight: Psychological and God help us, mathematical," Participant and symposiast at the John Logie Baird Centre for Research in Television and Film seminar on Image and Sound, Glasgow, Scotland.

"Descartes' Moves and Motions," University of Cincinnati Colloquium, November 1987.

"When Is Consent Needed to Withdraw Treatment," with James Snyder, M.D., Ethics for Lunch Series, January 1988.

"Technology and Social Practice" Chair and Commentator, American Philosophical Association, Cincinnati, April 1988 with Ian Hacking, Bruno Latour, and James Bogen.

"Crises and Cures in Contemporary Society," Keynote Address, Interface '88, Humanities and Technology Association, Atlanta, Georgia, October 1988.

"Perception and Psychology" Chair and Commentator at large, Philosophy of Science Association, biennial meetings, Chicago, October 1988.

"Galileo Knew Little Latin," Honors College lecture series, November 1988.

"Ethics and Codes" Organized and participated in panel discussion for President Wesley Posvar's West Point Honor Code Review Board, February 1989. (With Kenneth Schaffner and Nick Rescher).

"Hobbes and the Unity of Science," lecture, Virginia Polytechnic Institute and State University, March 1989

"Science and Humanities: Different Ways of Knowing," Invited address to Workshop of National Mellon Fellows in Humanities, Bryn Mawr, PA, June 1989.

"Aesthetics and Music," Bedford Springs Festival, July 1989.

"The University and the Curriculum", leader and keynote speaker of Faculty-Administrators workshop, Western Maryland College, February 1990.

"Ethics and News", Ethics and the Professions Conference, Lincoln, Nebraska, April 1990.

"Rhetoric in Science" Instituto Italiano di Studi Filosofici Conference, Ischia, Italy, June 1990.

"Philosophy of Science for Educators", History and Philosophy of Science in the Schools Conference, Colorado Springs, CO, March, 1990.

"Perception and Meaning" Conference on Light and Sight, Academie du Midi, Alet des Baines, France, June 1992.

"The Structure of Emotion: Comments on Ben Zev", Center for Philosophy of Science Reunion, Athens, Greece, May 1992.

"Galileo's Thought," National Technical University, Athens, Greece, June 1992.

"Galileo's Machines, his Mathematics and his Experiments", Galileo 350 Anni Dopo, Centro Fiorentina di Storia and Filosofia della Scienza, Domus Galileana, e Museo di Storia della Scienza. February 1993.

"The Structure of Galileo's Thought", University of Pisa, February 1993.

"Modes of Thought", invited Address., Academie du Midi, (France), June, 1993.

"The Weber Thesis Reconsidered: New Ways of Looking at the Rise of Capitalism and Science", University of Munster, June 1993.

"Individualism and the Idea(l) of Method", Scientific Controversies Conference, Instituto

di Filosofia di Napoli, Vico Equense, June 1993.

"Animal Thoughts: Comments on Cheney and Seyfarth", Philosophy of Biology, Pittsburgh-Konstanz Colloquium, (USA), October 1993.

"The Free Press: Responsibilities and Realities", The Laurel Initiative, Ligonier, PA, October 1993.

"Freud and the Emotions (symposium with Patricia Kitcher)", University of Houston, April 1993.

"Mathematics and the Book of Nature", Society for Neo-Platonism conference, Nashville, April 1994.

"The Meaning of Metaphor", Opening Address, Academie du Midi (France), June 1994.

"Comments of Hankinson-Nelson & Nelson, Rooney and Potter". Feminism and Philosophy of Science Symposium, PSA 1994, New Orleans, October 1994

"Scetticismo" Seminario di filosofia, Universita degli Studi di Udine, November 1994

"Individualism and Scientific Methodology" Universita degli Studi di Parma, December 1994

"The Origins of Modern Philosophy and the Scientific Revolution" 6 hours, Universita degli Studi di Pisa, December 1994

"Emotion, Identity, Empathy and Love" Claremont Graduate School and Pitzer College, January 1995

"The Scientific Revolution, Modern Philosophy, and Capitalism" Science Studies Center, University of California-San Diego, January 1995

"The Scientific Revolution, Modern Philosophy and Capitalism" Center for Philosophy of Science Annual Lecture Series, Pittsburgh, March 1995

"The Hermeneutics of Emotions" Bergische Universitat Gesamthochschule Wuppertal, May 1995

"Modern Science and Capitalism" Leibniz Gesellschaft, Hannover, May 1995.

"Parading the Colors: reply to Hardin" Pittsburgh-Konstanz Colloquium, Konstanz, May 1995.

"Thinking about /Thinking about Science' University of Athens, June 1995.

"Hobbes, Language and the kingdom of Darkness" Science and Scripture in the 17th Century, Udine, Italy, October 1995.

"The Scientific Revolution, Modern Philosophy and Capitalism" University of Maryland, November 1995.

"100 Years of Philosophy of Science" the Catholic University, Washington, D.C., November 1995.

"Cognitive Science and Epistemology" Aristotelis University, of Thessaloniki, May 1996.

"Contemporary Philosophy of Science" Aristotelis University of Thessaloniki, May 1996.

Comments on Joelle Proust, Athens-Pittsburgh Colloquium, May 1996.

"Big Picture History" symposium, Pitt Fellows Reunion, Castiglioncello, Italy, May 1996.

"The Social Background to 17th Methodology" Bogazici University, Istanbul, June 1996.

"Science, 17th Century and the Baroque" Melk Abbey and Vienna, Re-Envisioning the Baroque Congress, Wien (Austria), October 1996.

"Shakespeare and the 17th Century" Theater Department Public lecture, Pitt, November 1996.

"17th Century Science and Culture" Western Kentucky University, March 1997.

"Galileo's Machines, his Mathematics, and his Experiments" Talk at Center for

Philosophy of Science, Pitt, March 1997.

"Values in Science" with Merrilee Salmon, Department of Medicine, Section Hematology, Research Integrity Seminars, May 1997.

"The Meaning of Metaphor and Scientific Descriptions", Ghent, Belgium, October 1997.

"Berkeley and Newton: comments on Lisa Downing" Eastern Division, APA, December 1997.

"Science and Values" Bowling Green State University, May 1998.

"Values, Science and the Humanities" Heidelberg College (Ohio), May 1998.

"What's Right about Freud?" Symposium with Aristides Baltas and Gurol Irzik, Bogazici University, July 1998.

"Descartes, a Dualist? The very idea!" with J.E. McGuire, Bogazici University, July 1998.

"The Birth of Physics and Visual Thinking" UG Physics Seminar, Pitt, November 1998.

"Science, Values and the Humanities" Slippery Rock University, November 1998.

"The Mechanisms of Science: or how to think about brains, minds and people" Invited Public Lecture, University of Athens-National Technical University of Athens (Greece), December 1998.

"Why did Galileo Make the Earth Move?" (A Public Lecture) Pittsburgh Science Center, April 1999.

"Why Philosophers Need to Know some Neuroscience: A lesson in epistemology" Virginia Tech, April 1999

"Values and Science" Plenary Symposium, International Society for History and Philosophy of Science in Science Education, Como, Italy, September 1999.

"Galileo's Rhetoric and the Galileo Affair", Symposium, International Society for History and Philosophy of Science in Science Education, Como, Italy, September 1999.

"The Mind and the Brain" Pugwash Student Meeting, Carnegie Mellon University, September 1999.

"The Diseased Brain" Panel discussion, Pittsburgh Center for the Arts & Carnegie Science Museum, October 1999.

"Demarcation, Mechanisms and Astrology" Pittsburgh Astrology Conference, October 1999.

"The Origins of Mechanisms" History of Science Society Annual Meeting, November 1999.

"Can Your Brain Know What's on Your Mind?" (A Public Lecture) Carnegie Science Center, April 2000.

"Models in Neuroscience" (symposium with German Barrionuevo), Bariloche, Argentina, June 2000.

"Aesthetic Dimensions of Wine and Food Pairings" Elaine Light's CMU Adult education course, July 2000

"Comments on Michael Tye" Athens-Pitt Symposium on Experience, October 2000 (Crete)

"17<sup>th</sup> Century Demonstrations", invited address, University of Frankfurt, Frankfurt, Germany, December 2000.

"Light, Reason and Passion in 18<sup>th</sup> Century France" Frick Museum (public lecture in conjunction with From the Sun King to the Royal Twilight exhibition, from Musee de Picardie, Amiens).



"Leveling Reduction" with Jacqueline Sullivan, Pitt-London Workshop on Philosophy of Biology and Neuroscience, September 12-15, 2001, Birbeck College, London

"Memory, Experience and Learning in Aristotle" Aristotle Today Conference, September 20-23, 2001, Nousse, Greece.

"Interpretation in Art and Science" September 25, 2001, Bogazici University, Istanbul, Turkey

"Memory and Reliable Knowledge" with Lisa Osbeck, Center for Philosophy of Science In-House Conference, Pittsburgh, October 2001.

"Active Learning and Memory Models," with Lisa Osbeck, IHPST Conference, Denver, Nov. 7-11, 2001.

"Galileo and the Pendulum" panel presentation, at International History and Philosophy of Science in Science Teaching Society, in Denver, Nov. 7 –11, 2001.

"Interpretation in Art and Science" Undergraduate Philosophy Club, Pitt, Dec. 2001.

"Galileo: How Life makes Science" public lecture, Slippery Rock University, February 2002.

"Kuhn's Achievement, After 40 Years" and "Kuhn's Revolutions and the "real" history of science: The case of the Galilean revolution" Keynote lectures and symposium, Universide Da Coruna (Spain), March 7 -8. 2002.

"Kuhn's Achievement after 40 years," University of Madrid (Spain), March 10, 2002.

"Interpretation in Art; Interpretation in Science, and the Perception of both" Public Lecture, Bayer Art and Science Series, Carnegie Science Center, April 14, 2002.

"Knowledge, Memory and some other Things", Center for Neural Basis of Cognition Retreat, Hidden Valley, September 2002.

"Objects, Light and Self" The Mattress Factory, Pittsburgh, in conjunction with James Turrell exhibit, September 2002.

Peter Machamer and Lisa Osbeck, "Scientific Normativity as Non-Epistemic: A Hidden Kuhnian Legacy" History of Science Society, annual meeting. Milwaukee, November 2002.

"Activities and Causation" A workshop with Nuel Belnap, Jim Bogen, and Jim Woodward, Philosophy of Science Association Meeting, Milwaukee, November 2002.

"Descartes' Reconstitutes Himself: The Dawning Epistemic Stance" with J.E.McGuire, joint meeting of Midwest Seminar of Early Modern Philosophy, Centre d'Etudes Cartesiennes (Université de Paris IV) and Centro di Studi Cartesiani (University of Lecce), Lecce Italy, December 2002.

"Freud and the Politics of Affective Identification", Politics as Philosophy, Symposium for Aristides Baltas, New York University, New York, February 2003.

"Descartes' Changing Mind, or How Dualism became Innocuous" West Virginia Philosophical Society, keynote address, April 4, 2003.

Radio interview on science and aesthetics of sound, Natural History of Sound, Halifax, Nova Scotia public radio, June 2003.

"The Place of Values in Scientific Research" Pitt-CMU Joint M.D. Ph.D. Program, May 8, 2003.

"17<sup>th</sup> Century Motions" Fourth Athens-Pittsburgh Colloquium, Delphi, June 2003

and Lisa Osbeck, "Values and Scientific Knowledge", invited address, ISHPSST, Winnipeg, August, 2003.

"Mechanisms, Production and Information" 2<sup>nd</sup> Annual Reichenbach Conference, Washington University, St. Louis, November 2003.

and Lisa Osbeck. "Activity, Learning and Distributive Cognition" Southern Society for Philosophy and Psychology, New Orleans, April, 2004.

"Descartes on matter, extension and the vacuum" Descartes Day, Princeton University, April 2004.

"Are Universal Rights Coherent?" Istanbul Bilgi University, Istanbul, May 2004

"What's Left of Kuhn's Scientific Change?" Opening Keynote Address, Conceptual Change Symposium, European Association for Learning and Instruction, Delphi, Greece, May 2004.

Discussant, "Cognitive Penetrability of Perception" (papers by M. Rowlands, W. Brewer, D. Portides, A Raftopoulos), Conceptual Change Symposium, European Association for Learning and Instruction, Delphi, Greece, May 2004.

"A New Look at Galileo's Scientific Achievement," Galileo Day, Rutgers University, November 2004.

Comments on Kelby Mason, "Intuition and Perception," Pitt-CMU Philosophy Graduate Student conference, April 2005.

"Mechanisms. Productivity and Naturalistic Teleology," The Concept of Function in Biology and Language, University of Catania, Italy, May 2005.

"Descartes on Causality: Comments on Robert Schenpf" Pittsburgh-Konstanz Colloquium, "Causality: Historical and Contemporary", Konstanz, Germany, May 2005.

"Philosophy and Neuroscience" Perspectivas Actuales de Filosofía y Metodología de la Cienci, Valencia, Spain, 4 al 8 Julio, 2005

"Sciences of the Artificial" roundtable, Perspectivas Actuales de Filosofía y Metodología de la Cienci, Valencia, Spain, 4 al 8 Julio, 2005

"Is Descartes *Really* a Dualist?" Medieval and Renaissance lecture series, University of Pittsburgh, September 22, 2005.

'Freud on Women: Is He really so Bad?' Freshmen Lectures, University of Pittsburgh, September 30, 2005.

"Changing Philosophy in the early Twentieth Century, 1896-1905" Virginia Tech invited keynote lecture, *Mind* Symposium, December 2005.

"Explaining Mechanisms," Explanation seminar (with James Woodward and Michael Strevens), University of Calgary, March 2006.

"Episodic Memory and Narratives of the Self" Memory Speaks symposium (with Edward Casey), in conjunction with Memory plays, Pitt Theater Department, April 2006.

"Explanations, Mechanisms and Information" Invited Symposium, American Philosophical Association, Central Division, April 2006.

"Explanations, Causality and Information," Center for Logic and Philosophy of Science, University of Gent (Belgium), May 17, 2006.

"Descartes' Changing Mind," Center for Logic and Philosophy of Science, University of Gent (Belgium), May 18, 2006.

"The Two Cultures" Two lectures, for Fessenden Honors Engineering Program (FHEP),

University of Pittsburgh, October 2006.

“Explanation, Information and Mechanism” College of William and Mary, December 1, 2006.

”Explaining Mechanisms” Center for Philosophy of Science Fellows meeting, April 2007

“Descartes’ Changing Mind” University of Konstanz, May 2007.

“Explaining Mechanisms” University of Darmstadt, May 2007.

“Models as Models of Mechanisms” University of Heidelberg, June 2007.

“Is Descartes Really a Dualist?” Philosophy Department, Grinnell College, September 2007.

“Explaining Mechanisms” Neuroscience Program, Grinnell College, September 2007.

“”Neuroplasticity” and “Biological Inquiry”, two classes, Grinnell College, September 2007.

“Freud and Sexual Perversion: a dialogue” with Kimberley Latta (Pitt English), Freshmen Studies lecture, Pitt, October 2007.

“The Future of Integrated History and Philosophy of Science”, Invited “Seer” lecture, International &HPS Conference, University of Pittsburgh, October 2007.

“Science and Values” two lectures for Fessenden Honors Engineering Program (FHEP), University of Pittsburgh, November 2007,

“The Philosophy of Thomas Hobbes: Mechanist, Monist and Materialist” Visiting Scholar Award, Western Michigan University, Kalamazoo, Michigan, November 2007.

“Explaining Mechanisms” Keynote Address, Western Michigan Graduate Student Conference, Kalamazoo, Michigan, December 2007.

“Interpretation” Faculty Address, Pitt-CMU Graduate Student Conference, March 2008.

“Persons, Sub-persons, & Emotions” Seminar, University of Oslo, Norway, May 2008.

“Explaining Emotions by Mechanisms” University of Oslo, Norway, May 2008.

“Perception, Persons, and the Brain” Department of Psychology, University of Cyprus, Nicosia, June 2008.

“Phenomena, Data, Reliability and Validity” Phenomena Conference, University of Heidelberg, September, 2008.

Commentator, “Thinking with Machines,” Session with Alan Gabbey, Sophie Roux and Maarten van Dyck, History of Science Society Annual meeting, November 2008.

“Explanations by Mechanisms” Department of Communication Disorders, Pitt, March 2009.

“Persons and Explanations by Mechanisms” CalTech, May 2009.

“Taste: The Aesthetics of Food and Music; an interactive presentation” Honors College, Pitt, November 2009.

“Misunderstandings of Reduction and Causality: Persons, Subpersonal States, and the Social “ Pitt-Paris Symposium, Pittsburgh, Dec. 2009.

“What can Science Really Tell Us About Values” Sawyer lecture, Illinois Institute of Technology, April 2010.

"The Many Factors of Interdisciplinary Mechanisms: Ontology, Experiments, and Values." Workshop on Interdisciplinarity, University of Lund (Sweden), October, 2010.

‘Reception and Influence of Galileo’s *Sidereus Nuncius* (and the fate of Galileo)’, Galileo’s Moons: A Celebration of the 400<sup>th</sup> Anniversary of the publication of

*Siderius Nuncius*, The Library of Congress, Washington D.C., November 5, 2010.

“The Philosophy of Thomas Hobbes: Monist, Materialist, Mechanist” Keynote address, Early Modern Symposium, University of South Florida, Tampa, February, 2011.

“Mechanisms: Ontology, Representation, and Psychology” Mechanism Workshop: *Les mécaniciens: Salon des Refusés*. Center for Philosophy of Science (Pittsburgh), April 9, 2011.

“How is Learning Possible in a Complex World Where there can be No Absolutely Correct Answers and All our Questions are Simple Minded?” Honors College 25<sup>th</sup> Anniversary Celebration, February 25, 2012.

“More about mechanisms” University of Illinois Philosophy Colloquium, April, 2012.

“Mechanisms and Scientific Explanations” Public lecture, translated into Turkish, Mugla (Turkey), June 2012.

“Explanations and Mechanisms” Keynote Address, Graduate Student Conference, Catholic University of America, February 2014

Chaired and participated in many professional meetings, public panel discussions, appeared on local and national television and radio, and had own newspaper column and radio show on wine, food and culture topics, and many public lectures and panels on life style topics.

#### PROFESSIONAL ACTIVITIES & SERVICE

Program Committee, Reduction and Emergence in the Sciences, University of Munich, scheduled for Nov. 2013

Jury Member, Fernando Gil International Prize in Philosophy of Science 2013 (Portugal)

Co-Advisor, UG Philosophy of Science Club

Grant Reviewer, Killiam Awards (Canada)

Grant reviewer, FNRS (Belgium)

Reviewer, Ministero dell'Istruzione, dell'Università e della Ricerca (Italy)

Program Co-chair, Center for Philosophy of Science Quad Fellows Conference, Mugla, Turkey 2012

Grant Reviewer, The French National Research Agency (ANR).

Chair, “Galileo, Ariosto, and Tasso,” American Association of Italian Studies, April 7, 2011.

Organized and ran a Center for the Philosophy of Science workshop: *Les mécaniciens: Salon des Refusés*. April 9, 2011

Vintners Hall of Fame Electoral College, Culinary Institute of America, Greystone, 2010-2011

NEH Grant Panel (History of Science, Religion, Philosophy), Washington, DC, March 2010

Consultant, TimeWeb Project, Andy Warhol Museum, Pittsburgh, 2009-2012

Co-Chair, with Gereon Wolters, Pittsburgh-Konstanz VIII, “Interpretation”, Pittsburgh, October 2008

Program Committee, European Philosophy of Science Association, 2009 meeting

Grant reviewer, Social Sciences and Humanities Research Council of Canada

Chair, PSA Session, “Computational Neuroscience”. Nov. 2008.

Peer Review for the Research Council of Norway  
Editorial board, *Non sequitur*: The International E-yearbook for the Rebuttal of Recent Arguments in the Philosophy of Science and Epistemology  
CIVR Experts Board (Italy).  
Behavior and Brain Science (BBS) Associate.  
International Editorial Advisory Board, *Iris. European Journal of Philosophy and Public Debate*. (Firenze, Italia)  
Editorial Board, *Themes in Education* (Greece).  
Editorial Board, Kluwer, Studies in Science and Culture Series, Fernand Hallyn, editor.  
Editorial Committee, *Science and Education*.  
Philosopher-in-Residence, Attack Theatre (dance company)  
Ph.D. jury, for Maarten Van Dyck, University of Gent, May 2006.  
Co-Chair, with Gereon Wolters, Pittsburgh-Konstanz VIII, "Interpretation", Pittsburgh, October 2008.  
Co-Chair, with Attilio Favorini, The Memory Colloquia, The University of Pittsburgh's Theater Season Symposia, 2005-6.  
Co-Chair, with Gereon Wolters, Pittsburgh-Konstanz VII, "Causality; Historical and Contemporary", Konstanz, Germany, May 2005.  
Edited papers from Athens Pittsburgh Colloquium for *Perspectives in Science* (2005).  
Co-Chair, Athens-Pittsburgh, Demonstration and Proof in Philosophy and Science, Delphi, June 1-6, 2003.  
Co-chair with Gereon Wolters, Pittsburgh-Konstanz Colloquium VI, Science, Values and Objectivity, October 2002.  
Organizer, Pitt-London Workshop (Cultural Studies) in Philosophy of Biology and Neuroscience, Birbeck College, London, October 12-15, 2001.  
Editorial Board, *Philosophy of Science*, 1980-1990; 1995-9.  
Consultant, Program in Cognitive Science, University of Athens, 1998-2000.  
Program Co-Chair, "Experience", 3rd Athens-Pittsburgh Colloquium, Crete, Greece, October 2000.  
Planning Committee, Romancing the Brain, an arts and science multi media experience. Creative Non-Fiction Program and Pittsburgh Center for the Arts, October 1999.  
Organized and ran NSF funded workshop on "Values in Scientific Research", October 1998.  
Review Board, Fulbright-CIES (Southeast Europe), 1997-9.  
Program Co-Chair, "Philosophy and the Neurosciences" Pittsburgh-Konstanz V, May 1999  
Program Co-Chair, " The Greek Medical Tradition: Hippocrates to Harvey", Athens-Pittsburgh Colloquium, May 1998.  
Director, The Laurel Initiative: Global Perspectives on America. (An institute running international seminars for people in government, business and education.) 1988-1994.  
Governing Board, Philosophy of Science Association, 1980-1984.  
Associate Editor, *Philosophy of Science*, 1977-1980; 1990-4.  
Board of Directors, Academie du Midi. Montjoi, France & Wupertal, Germany, 1983-99.  
Program Co-chair, "Philosophy and the Sciences of the Mind," Pittsburgh-Konstanz Colloquium III, (Germany, 1995).  
Advisory Board, NSF Funded "Integrating the History and Nature of Science in School

Science and Social Studies Programs." Biological Sciences Curriculum Study and Social Science Education Consortium, Colorado Springs, 1989-91.  
Nominating Committee, AAAS, (Section L), 1989-chair, 1991.  
Consultant, Little Rock Science Museum, Arkansas, 1988-1993.  
Study Group Member, Science and the Liberal Arts, on undergraduate science education, for AAAS-Carnegie Corp., 1987-9; Final report published, May, 1990.  
Principal Investigator, LRDC Mellon Grant on Reasoning with Merrilee Salmon and Lauren Resnick on social aspects of reasoning, especially logical reasoning.  
Executive Board, Sigma Xi, 1987-1989  
Secretary, Pitt Chapter, Sigma XI, 1984-1987  
Participant, University of Colorado World Affairs Conference, April 1992  
Program Chairman, Philosophy of Science Association, Fall, 1986 Meeting  
Coordinator: Four Society Meeting (HSS, PSA, SHOT, SSSS), Fall, 1986  
Program Chair, PSA, Fall, 1986  
Medical Ethics Consultant, Shadyside Hospital, Pittsburgh, 1987-1993  
Course Director, Chautauqua-type short courses for College Teachers on theories of Perception, AAAS, 1977-1978, 1978-1979  
Member of Operating Committee, Eighth Ohio Junior Sciences of Humanities Symposium, Ohio Academy of Sciences, The Junior Academy, 1969-1971  
Wine Judge, Ohio State Fair, August, 1975-76  
Wine Columnist, *Pittsburgh Magazine*, 1977-1979  
Wine Columnist, *Pittsburgh Post Gazette*, 1979-1993 (weekly column)  
Chairman, Wine Auction, American Cancer Society, 1982  
Wine judge, National Competition, Banco Assagio dei Vini Italiani, Torigiano, Italy, November, 1992  
Wine judge, San Diego National Wine competition, April 2004  
Vintners' Hall of Fame, Election Board, Culinary Institute of America, 2008-2013  
Radio Program, WQED-FM, 1984-1990  
Cooking Consultant and Chef trainer, Food Gallery Supermarkets, 1983-4  
Over 100 courses for adult education, in wine appreciation, French and Italian cooking

## PROFESSIONAL SOCIETIES

Philosophy of Science Association  
History of Science Society  
American Philosophical Association  
American Psychological Association

## ADMINISTRATIVE AND COMMITTEE WORK

### Ohio State University

University Personalized Study Program Committee, 1972-1975  
Advisory Board, Center for Medieval and Renaissance Studies, 1972-1976  
Undergraduate Honors Advisor for Philosophy Majors, 1971-1974  
Dean's Advisory Committee, 1972-1973  
Acting Chairman, Summer, 1971

Assistant Project Director, NEH grant, History of Philosophy/History of Scientific Theories, 1972-1974  
Graduate School Research Committee: Sub-committee for Humanities, 1974 and 1975  
Departmental Committees, Graduate, 1974-1975; Undergraduate, 1972-1973; Placement, 1973- 1975; Executive, 1975-1976  
University Faculty Tenure Hearing Committee, Alternate, 1974-1975  
Graduate Council, Graduate School, Alternate, 1974-1975,  
Member, 1975-1976

University of Pittsburgh

Director, Conceptual Foundations of Medicine Undergraduate Certificate Program, 1999-present  
Executive Committee, Cultural Studies Program, 1990 -1995; 2000-2; 2004-5; 2007-8.  
Associate Director, Center for Philosophy of Science, 1999-present.  
Departmental Committees: Placement, 1976-1977; 1997-99; Graduate 1976-1978;  
UG Advisor 1999-present  
Provost's Tenure Appeals Committee, 2004  
Dean's Tenure Review Committees, virtually yearly  
Senate Council and Faculty Assembly, 1977-1982  
Acting Chairman, HPS, Fall Term, 1977  
Chairman, HPS, 1978-1993  
Organized Chancellor's Conference Session on Nature of Humanities, Johnstown Session,  
June, 1985  
Board member, Archives for Scientific Philosophy (Carnap-Reichenbach-Ramsey) Collection, 1978-1993  
Co-Chairperson, Science Literary Board: Alternative Science and Mathematics Education for non-majors, 1989  
Advisory Board, Philosophy of Science Center, 1986-1993  
Provost's Study Group on Undergraduate Education, 1990-1991  
UNDERGRADUATE COURSES TAUGHT

Introduction to Philosophy  
Philosophy Bases of Western Culture  
Aesthetics  
Ethics  
Introduction to Logic  
History of Philosophy -- Greek and Medieval: Bacon to Hume  
History of Scientific Explanations -- Greek and Medieval:  
Renaissance through 18th Century  
Philosophy of Science  
Conceptions and Methods of Social Sciences  
Problems in Philosophy of Science  
Theory of Knowledge  
Descartes  
Contemporary Philosophy: Phenomenology, Existentialism, Logical Atomism, and Logical Positivism

History of Philosophy and Science: Aristotle to Newton  
History of Astronomy: Greek to 18th Century  
Theories of Form and Matter: Classical, Neoplatonic and Medieval  
Explanations of Humans and Society  
The Scientific Revolution (also in Italian)  
Aesthetics and Science  
Freud, Skinner and Piaget  
Classics in the History of Science (Honors)  
Medical Ethics  
Morality and Medicine  
Explaining Emotions  
Philosophy of Mind  
Interpretation in the Arts, Humanities and the Sciences (Honors)  
Freshman Studies—Introduction to Arts and Sciences  
The Philosophy of Liberal Democracy and its Critics  
Early Modern Philosophy  
Mind and Medicine  
Scientific Reduction and The End of Philosophy  
Magic, Medicine and Science

#### GRADUATE SEMINARS TAUGHT

History of Science: Plato through Galileo  
History of Science: Descartes through Einstein  
The Copernican Revolution  
Perception (Philosophy and Psychology)  
Functionalism and Machine Models of Consciousness  
Roger Bacon (for Center for Medieval and Renaissance Studies)  
Philosophical Problems of Psychoanalysis  
Duns Scotus  
Causality and Explanation  
Scientific Change and Progress  
Hobbes and Spinoza  
Descartes  
Values and Evaluation  
Advanced Philosophy of Science  
Galileo  
Leibniz  
Theory Construction in Psychology  
Naturalistic Epistemology  
Scotus and Spinoza  
Freud  
Anna Freud and Ego Psychology  
Freud and Contemporary Philosophy of Mind  
Psychological Explanations (cognitive and neurological)  
Explanations in Social Science  
The Character of Cognitive Theories  
Cultural and Psychological Explanations



Nature and Laws of Nature in the Renaissance  
Cognitive Science and Explanations  
The Scientific Revolution (in Italian)  
Overviews of the 17th Century (Doing Big Picture History)  
Science and Values  
Cognition and Knowledge  
Mind and Neuroscience  
Knowledge and Neuroscience  
Emotion and Consciousness  
Philosophy and Neuroscience  
17<sup>th</sup> Century Historiography  
Thomas Hobbes  
Explanations, Causes, and Mechanisms

### ADULT EDUCATION COURSES

How Galileo Changed the World (Osher Institute, Pitt)

### INTERDISCIPLINARY AND JOINTLY TAUGHT COURSES:

#### Undergraduate

Lecturer in Center for Medieval and Renaissance Studies Courses: Renaissance  
Florence: Renaissance Philosophy and Science, OSU, 1970-1976  
The Golden Age of Arab Thought (8th-10th Centuries): Arabic Science and  
Philosophy, OSU, 1973-1974  
Director of Interdisciplinary Course on Renaissance Florence, OSU, Spring, Pitt,  
1975  
Chatham-Pitt Honors Residence Program, "Life In Post-Industrial Society,"  
(co-Director with Linda Rosenzweig, History, Chatham College, Fall, Pitt,  
1986)  
Paths of Inquiry (with Ben Bart, French; Rich Scaglione, Anthropology)  
(Honors), Pitt  
Science and Culture, Italian Style (with Dennis Looney, Italian) (Honors course),  
Pitt

#### Graduate

Theories of the State: 17th and 18th Centuries (with John  
Champlin, Political Science), OSU  
History of Theories of Perception: 19th and 20th Centuries (with George Pappas  
and  
Dean Owen, Psychology Department), OSU  
Perception (with Dean Owen, Psychology), OSU  
Descartes (with Wilfrid Sellars and J.E. McGuire), Pitt  
Descartes (with J.E. McGuire), Pitt  
Problems in Representation (with Jim Greeno, Psychology), Pitt

Perception and Experimental Paradigms (with Lynn Cooper, Psychology), Pitt  
Recent Work in Perception (with Lynn Cooper, Psychology), Pitt  
Explanations in Anthropology (with John Roberts, Anthropology, and Merrilee  
Salmon, HPS), Pitt  
Medical Ethics, Univ. of Pittsburgh Medical School, second-year medical  
students, (at different times with Dr. Sylvan Stool, Dr. Herbert  
Needleman, Dr. Bruce Pazin, Dr. Michael Pinsky, Dr. Joel

Frader), Pitt

The Debauched Puritan: Sexual Violence in the 17th Century (with Colin  
MacCabe, English and Film Studies), Pitt

Cognition and Representation: New works in psycho-Semantics (with Charles  
Perfetti, Psychology), Pitt

Cognitive Science (with Stella Vosniadou), Athens

The Natural and Human Sciences: 19th Century (with J.E. McGuire, and Fritz  
Ringer, History)

Philosophy of Science for Humanists (with Colin MacCabe, English and Film  
Studies), Pitt

History of Economics: Marx's *Capital*; all three volumes (with Colin MacCabe),  
Pitt

Freud (with Henry Krips, Communication), Pitt

Philosophy of Psychiatry (with Kenneth Schaffner), Pitt

J.J. Gibson and his Influence (with James Lennox), Pitt

05.2015.