

Richard E. Grandy

McManis Professor of Philosophy & Cognitive Sciences

Education:

University of Pittsburgh	B.S., Mathematics, 1963
Princeton University	(History & Philosophy of Science Program) M.A., 1965; Ph.D., 1968

Faculty Positions:

Carolyn and Fred McManis Professor, 1993-
Wray Harrison Distinguished Visiting professor, Washington Univ Spring 2001
Chairman, Rice University, Philosophy, 1982-88, 2012-4
Acting Chair Fall 1992, 1996-7, 2006-7
Director, Cognitive Science Program, 1989-93 Acting Director S 2004
Professor, Rice University, 1980-93
Professor, University of North Carolina at Chapel Hill, 1979-80
Associate Professor, University of North Carolina at Chapel Hill, 1974-79
Assistant Professor, Princeton University, 1967-74
Visiting Assistant Professor, Columbia University, Fall, 1969
Visiting Assistant Professor, University of California, Berkeley, Summer, 1972
Visiting Associate Professor, Stanford University, Summer, 1977

Honors, Awards, and Grants:

NSF Post-doctoral Fellowship, 1970-71
ACLS Study Fellowship, 1976
ACLS Research Fellowship, 1980
NEH Summer Seminar Director, 1979 & 1982
Mellon Workshop Director, 1981
NEH Summer Research Fellowship, 1986
NSF grant to organize a conference on philosophy of science, cognitive science
and science education (2004-5)
CSC Faculty Fellowship Spring 2005

Current Professional Society Memberships:

American Philosophical Association
Association for Symbolic Logic
Philosophy of Science Association
Society for Exact Philosophy
International Society for History and Philosophy of Science in Science Education
Mathematical Association of America
History of Philosophy of Science Society

Logic and Philosophy of Logic

Online book: *Logic: A Primer for Psychologists* (with Daniel Osherson of Princeton)
<http://www.ruf.rice.edu/~rgrandy/primer.pdf>

Advanced Logic for Applications. Dordrecht, Holland: D. Reidel Publishing Company, 1977. Second Edition (paperback), 1980.

"A Note on the Recursive Unsolvability of Primitive Recursive Arithmetic," Proceedings of the American Mathematical Society, Vol. 17, No. 1 (February, 1966), pp. 141-147.

"A Definition of Truth for Theories with Intensional Definite Description Operators," Journal of Philosophical Logic (1972), pp. 137-155.

"Some Remarks on Logical Form," *Nous*, Vol. VIII, No. 2 (May, 1974), pp. 157-164.

"On the Relation Between Free Description Theories and Standard Quantification Theory," *Notre Dame Journal of Formal Logic*, Vol. 17, No. 1 (January, 1976), pp. 149-152.

"Anadic Logic and English," *Synthese*, Vol. 32 (1976), pp. 395-402.

. "Predication and Singular Terms," *Nous*, Vol. 11 (1977), pp. 163-167.

"Inference and If-Then," *Psychological Review*, 1979, Vol. 86, pp. 152-153.

"Intuition and Inconsistency," *BBS*, p. 494, 1982.

"The Lowenheim-Skolem Theorem" in *The Cambridge Dictionary of Philosophy*, ed. Robert Audi, Cambridge University Press, 1993.

"What do those 'Q's and 'R's stand for?," in *A Philosophical Companion to First Order Logic*, ed. R.I.G. Hughes, Hackett, 1993.

“On an old conditional in a new environment; strict implication in classical logic,
Proceedings of the Pan-Hellenic Logic Society 2015

Philosophy of Science

"Some Comments on Confirmation and Selective Confirmation," *Philosophical Studies*, Vol. XVII, Nos. 1-2 (January-February, 1967), pp. 19-24. Reprinted in Baruch A. Brody, (editor), *Readings in the Philosophy of Science*, Englewood Cliffs, New Jersey: Prentice-Hall, Inc. (1970), pp. 428-432.

(Editor) *Theories and Observation in Science* Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1973. Ridgeview Press, 1980.

"Incommensurability: Kinds and Causes," *Philosophica*, 32, 1983, pp. 7-24.

(Edited with B. Brody) *Readings in the Philosophy of Science*, Prentice-Hall, 1989.

"Information, observation and measurement" in *The Cognitive Approach to Philosophy of Science*, ed. R. Giere, University of Minnesota Press (v. 15 1992), pp. 187-206.

"Theories of theories: A view from cognitive science", in *Inference, Explanation, and other Frustrations*, edited by J. Earman, University of California Press (1992), pp. 216-233.

"The cognitive perspective on scientific controversies", in *Scientific Controversies: Philosophical and Historical Perspectives*, ed. P. Machamer et al, Oxford University Press (1998), pp. 67-80.

"Kuhn's changing worlds", *Thomas Kuhn*, ed. T. Nickles, Cambridge UP 2002

"T S Kuhn", *Routledge Encyclopedia of Philosophy*, (2006) 419-31

"C G Hempel", *Routledge Encyclopedia of Philosophy*, (2006) 347-52

Science Education

Teaching Scientific Inquiry: Recommendations for Research and Implementation, with Richard A. Duschl, Sense Publishing 2008

"Psychology and Epistemology: Match or Mismatch When Applied to Science Education?", *International Journal of Science Education*, 1990 V. 12, #3, pp. 230-243. With R. Duschl and R. Hamilton.

"Prototypes and Conceptual Change", with Richard Hamilton, *Proceedings of the Second International Congress of Philosophy, History and Science Education*, ed. S. Hills, (v.1 1992), pp. 435-448.

"Expertise and the Critical Nonexpert (Comment on Norris)", *Science Education* (1995), pp. 219-221.

"Constructivisms and Objectivity: Disentangling Metaphysics from Pedagogy", *Science and Education*, 1997, V. 6 43-53

"What are models and why do we need them?", *Science and Education*, 2003, 12, 773-777.

"Reconsidering the Character and Role of Inquiry in School Science: Analysis of a Conference" (with Richard A. Duschl), *Science and Education* (2008)

"Demarcation in Science Education: Toward an Enhanced View of Scientific Method" . (with R. A. Duschl) In R. Taylor & M. Ferrari, Eds, *Epistemology and Science Education: Understanding the Evolution vs. Intelligent Design Controversy* (2011)

Philosophy of Mathematics

"In Defense of a Modest Platonism," *Philosophical Studies*, 1977.

"Shadows of remembered ancestors: Mathematics as the epitome of story telling", *Benacerraf and His Critics*, ed. A. Morton and S. Stich, 1996, Blackwell, 167-189.

Philosophy of Language and Metaphysics

"On What There Need Not Be," *Journal of Philosophy*, Vol. LXVI, No. 22 (November 20, 1969), pp. 806-812.

"Grammatical Knowledge and States of Mind.," *J.of Behaviorism* (1972), pp. 16-21

"Reference, Meaning and Belief," *Journal of Philosophy* (1973), pp. 439-452. Reprinted in a German anthology of contemporary analytic philosophy; Sukale, Michael (editor), *Referenz, Bedeutung, und Glaube*, in the *Modern Sprach-philosophie* series, published by Hoffmann and Campe (January, 1976), pp. 149-160.

"Comments on Moravcsik's Paper," in *Approaches to Natural Language*, edited by Hintikka, Moravcsik and Suppes. Dordrecht, Holland: D. Reidel Publishing Company (1973), pp. 295-300.

"Stuff and Things," *Synthese*, Vol. 31 (1975), pp. 479-485.

"The Private Language Argument," *Mind*, Vol. 85, No. 338 (April, 1976), pp. 246-350

"On Semantics for some Modifiers," in Rodman, Robert, *Explorations in Language and Linguistics*, The University of North Carolina, pp. 92-99, 1978.

"An Ockhamite Criticism of Church Semantics," *The Monist*, 1978, Vol. pp. 402-407

"Suppes on Logic and Linguistics," in Bogdan, Radu (editor), *Patrick Suppes*, 1979

"Ontology and Reduction," *Southwestern J. of Philosophy*, 1979, Vol. IX, pp. 69-78.

"Universals or Family Resemblances?," *Midwestern J. of Philosophy*, pp. 11-17, 1979.

"Ramsey, reliability and knowledge," in D.H. Mellor (ed.) *Prospects for Pragmatism*, Cambridge University Press, 1980, 197-209.

"An unacceptable aspect of acceptability," *PPQ*, V. 62, 1981, pp. 118-122.

"Forms of belief," *Synthese*, 46 (1981), 271-284.

"Some Thoughts on Theory and Data in Linguistics," *PSA*, 1980 Proceedings, Philosophy of Science Association, 1981, pp. 605-612.

"What a Theory of Truth Need Not Tell Us," in *Truth and Interpretation*. E. LePore (Editor) , Oxford University Press, 1985, pp. 179-190.

"Some Misconceptions About Belief," in *Philosophical Grounds of Rationality: Intentions, Categories, Ends*. Oxford University Press, 1986, pp. 317-332.

"In Defense of Semantic Fields," in *Semantics of Natural Languages*. E. LePore (Editor). Academic Press, 1986, pp. 259-280.

"Information-based Epistemology, Ecological Epistemology and Epistemology Naturalized," *Synthese*, Vol. 70, 1987, pp. 191-204.

"On the Physical Reality of Colors," in *Mind, Value, and Culture: Essays in Honor of E.M. Adams*. D. Weissbord (Editor). Ridgeview Publishing, 1989, pp. 229-245.

"On Grice on Language," *J. Phil.* 1989.

"Compositionality and Understanding," in *Philosophical Perspectives*, Vol. IV, ed. J. Tomberlin, 1989.

"Concepts, Prototypes and Information" in *Information, Semantics and Epistemology*, E. Villanueva (ed.), Blackwells, 1990, 200-8.

"Foundations of conversational implicature", *Proceedings of the Berkeley Linguistics Society* Vol. XVI, (1991) University of California Press.

"Semantic fields, prototypes and frames" in *Frames, Fields and Contrasts: New Essays in Lexical and Semantic Organization* ed. A. Lehrer and E. Kittay, Erlbaum Press (1992).

"Psycholinguistics", in *The Cambridge Dictionary of Philosophy*, ed. Robert Audi, Cambridge University Press, 1993.

"'Epistemology naturalized' and epistemology naturalized", *Midwest Studies in Philosophy*, Vol 19 (1994) 341-9.

"No simulation without (some) theory (somewhere, some kind): Comments on Henderson" *Southern Journal of Philosophy* 1995 V. XXXIV Supplement 95-9

"Proxy functions and ontology", *Logica Yearbook* 2003

"Artifacts, parts and principles", in **Creations of the Mind: Theories of Artifacts and their Representation**, ed. E. Margolis. 2007 Oxford University Press, 18-32.

“Sortals” *Stanford Encyclopedia of Philosophy*,
<http://plato.stanford.edu/entries/sortals/> (2006. Significant revision 2015)

Other

"What The Well-Wisher Didn't Know," *Australasian Journal of Philosophy* (May, 1977), pp. 82-86.

"On Schiffer's Desires," *The Southern Journal of Philosophy*, 1979, Vol. XVII, pp. 193-199.

(Editor with Richard Warner) *Philosophical Grounds of Rationality: Intentions, Categories, Ends*. Oxford, England: Oxford University Press. 1986.

"A Survey of the Work of Paul Grice," with Richard Warner, in *Philosophical Grounds of Rationality: Intentions, Categories, Ends*. Oxford University Press, 1986, pp. 1-44.

"H. P. Grice" with Richard Warner *Stanford Encyclopedia of Philosophy*, <http://plato.stanford.edu/entries/grice/> (2006, significant revision 2013)

Edited Journal:

Managing Editor, *Linguistics and Philosophy*, 1980-88, Vols. 3-10

Book Reviews:

Theory and Experience, edited by Lawrence Foster and J.W. Swanson. Amherst: University of Massachusetts Press, 1970. pp. 160 in *Journal of Philosophy*, Vol. LXIX, No. 10 (May 18, 1972), pp. 283-286.

Words and Objections: Essays on the Work of W.V. Quine, by Donald Davidson and Jaakko Hintikka. New York: Humanities Press; Dordrecht, Holland; D. Reidel Publishing Company, 1969, pp. vii, 366 in *The Philosophical Review*, Vol. LXXXII, No. 1 (January, 1973), pp. 99-110.

Howard DeLong, *A Profile of Mathematical Logic*, in *Journal of Symbolic Logic* (March, 1975), Vol. 40, pp. 101-102.

Philosophy of Logic, by W.V. Quine. Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1970, pp. xiv, 109 in *Journal of Symbolic Logic*, Vol. 40, No. 4 (December, 1975), pp. 587-588.

Convention: A Philosophical Study by David K. Lewis. Cambridge, Massachusetts: Harvard University Press, 1969, pp. xii, 213 in *Journal of Philosophy*, Vol. LXXXIV, No. 2 (February, 1977), pp. 129-139.

Lawlikeness, Analogy and Inductive Logic, by Juhani Pietarinen. Amsterdam, North-Holland Publishing Company, 1972. pp. 143 in *The Philosophical Review* (1977), pp. 396-398.

Minnesota Studies in the Philosophy of Science, Vol. VII, Language, Mind, and Knowledge, edited by Keith Gunderson. Minneapolis: University of Minnesota Press (1975), pp. vii, 424 in The Philosophical Review, 1978, pp. 644-648.

Why Does Language Matter to Philosophy, I. Hacking. Cambridge University Press, 1975, JSL, (1981) , 46, pp. 173-174.

Relevance: Communication and Cognition, D. Sperber and D. Wilson, TLS, (September 19, 1986), p. 1037.

Recent Presentations

“Making Better Scientists: Philosophy of Science in Practice”, American Association for the Advancement of Science, February 2012 Vancouver

“Why were there sense data?” APA Central Division Mtg, March 2013 New Orleans

“On models of scientific method”, (with R. A. Duschl) International History Philosophy and Science Studies Society Mtg, June 2013 Pgh. PA

“On an old conditional in a new environment; strict implication in classical logic, 10th Pan-Hellenic Logic Society Conference, June 2015 Samos Greece

Teaching

1999-2015 Courses

Spring 1999

Philosophy 355 Advanced topics in philosophical logic

Philosophy 504 Seminar in Metaphysics

Fall 1999

Phil 305 Mathematical Logic

Phil 505 Mathematical Logic for Graduate Students

Spring 2000

Phil 357 Incompleteness and computability

Phil 530 Seminar on the History of Analytic Philosophy

Fall 2000

Phil 304 Metaphysics

Phil 305 Mathematical Logic

Phil 505 Mathematical Logic for Graduate Students

Phil 757 Workshop on teaching Philosophy

Spring 2001

On sabbatical visiting at Washington University-St. Louis

Fall 2001

Phil 305 Mathematical Logic

Phil 530 Seminar on the History of Analytic Philosophy

Spring 2002

Phil 355 Topics in philosophy of logic

Phil 530 Seminar on the History of Analytic Philosophy

Fall 2002

Phil 304 Metaphysics

Phil 305 Mathematical Logic

Phil 505 Mathematical Logic for Graduate Students

Spring 2003

Phil 357 Incompleteness and Computability

Phil 513 Seminar on Philosophy of Science

Phil 757 Workshop on Teaching Philosophy

Fall 2003

Phil 302 Topics in Modern Philosophy (Locke)

Phil 305 Mathematical Logic

Phil 505 Mathematical Logic for Grad Students

Spring 2004

Phil 313 Philosophy of Science

Phil 530 Seminar on the History of Analytic Philosophy

Fall 2004

Phil 304 Metaphysics

Phil 305 Mathematical Logic

Phil 505 Mathematical Logic for Grad Students

Spring 2005

On CSC leave

Fall 2005

Phil 305 Mathematical Logic

Phil 505 Mathematical Logic for Grad Students
Phil 757 Workshop on Teaching Philosophy

Spring 2006

Fall 2006
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students

Spring 2007

Fall 2007
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students

Spring 2008

Fall 2008
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students

Spring 2009
On Sabbatical

Fall 2009
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students
Phil 757 Teaching Workshop

Spring 2010
Phil 530 History of Analytic Philosophy

Fall 2010
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students

Spring 2011
Phil 355 Advanced topics in philosophy of logic
Phil 504 Metaphysics

Fall 2011
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students
Phil 757 Pedagogy Seminar

Spring 2012
Phil 530 History of Analytic Philosophy

Fall 2012
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students

Spring 2013
Phil 357 Incompleteness and undecidability

Fall 2013
Phil 305 Mathematical Logic
Phil 505 Mathematical Logic for Grad Students

Spring 2014
Phil 504 Metaphysics

Fall 2014
Phil 304 Metaphysics
Phil 305 Mathematical Logic
Phil 504 Metaphysics
Phil 505 Mathematical Logic for Grad Students

Spring 2015
Teaching release as former chair

Fall 2015
Phil 305 Mathematical Logic
Phil 504 Metaphysics
Phil 505 Mathematical Logic for Graduate Students

1. Earlier courses taught at Rice

Philosophical Perspectives on Science (104) (Spring, 1982)
Modern Philosophy (302, Locke) F 2003
Metaphysics (304)(Spring 1981)
Mathematical Logic (305) (Fall, 1981-2003 & beyond)
Incompleteness and computability (357) (Spring 1987, 1990, 1993, 1996, 2000, 2003)
Advanced topics in philosophy of logic (355) (1992, 1995, 1999, 2002)
Philosophy of Science (313) (Fall, 1982, Spring 2004)
Philosophy of Language (353) (Fall, 1981, 1983, 1991, 1992, 1995)
Seminar on Epistemology (503) (Fall 1984)
Seminar on Metaphysics (504) (Spring 1986, Spring 1995, Spring 1996, Spring 1999)
Mathematical Logic for Graduate Students (505) (Fall 1989-2003& beyond)
Seminar on Philosophy of Science (513) (Spring, 1982, 1991, 2003)

Seminar on Philosophy of Language (553) (Spring, 1981, 1983, 1984, 1988, 1990, 1992, 1995)
Cognitive Sciences Senior Seminar (1989-1993)
University 303 Perception, Evolution & Culture (Fall 1996)

Dissertations Directed (while at Rice)

Leslie Marenchin (1986) on Armstrong on universals

Robert Skipper (1987) about "about"

Gerald Eichhoefer (1987) on Bradley vs. Russell concerning relations

Timothy Deibler (1989) on cognitive theories of metaphor

Nader Chokr (1991) on cluster's last stand

Dragana Bozin (1993) on foundational questions about length measurement

Keith Bowers on a non-foundational realism in mathematics (U. St. Thomas, 2000)

Ian Dove (2003) on fallibilism in mathematics

John O'Neal (2007) on ontological levels

Dissertation Committees Chaired

Michael Barkasi, *Perceptual Links: Attention, Experience, and Demonstrative Thought* (2015)

Heather Phillips, *Can You Believe It? A Case for Meaningful Control of Belief* (2015)

Outside Reader for Dissertations in Psychology (4); Mathematics; Computational and Applied Mathematics; Earth Sciences

Current and Recent Administrative Roles at Rice

Co-Chair, University Committee on Faculty and Staff Benefits 2013-17

Chair, Senate Working Group to Review the Process of Decanal Reviews,

Member, Cognitive Sciences Steering Committee 1992-present

Member, Scientia 1982-present

