

Curriculum Vitae

Robert W. Burch

1. Personal and Professional Experience

Personal

Date of Birth: March 31, 1943

Marital Status: Married

Educational Background

William Marsh Rice University, B.A. in Mathematics 1961–1965

William March Rice University, Ph.D. in Philosophy 1965–1968

Honors and Awards

Phi Beta Kappa 1965

James A. and Alice G. Baker Scholar 1963–1964

Thomas R. and Julia H. Franklin Scholar 1964–1965

National Defense Education Act Fellow 1965–1968

Texas A&M University Association of Former Students
Distinguished Teaching Award (\$4000.00) 1983

Texas A&M University College of Liberal Arts
Fifth Annual Humanities Lecturer 1989

Professional Work Experience (academic/scholarly)

Assistant Professor, Rice University Fall 1968–Spring 1970

Council for Philosophical Studies,
Summer Institute in Philosophy of Law,
University of California, Irvine, California Summer 1969

Visiting Lecturer, University of Southampton,
Southampton, England Fall 1970–Spring 1971

Assistant Professor, Rice University Fall 1971–Spring 1974

Council for Philosophical Studies,
Summer Institute in Epistemology,
Amherst College, Amherst, Massachusetts Summer 1972

Associate Professor, Texas A&M University Fall 1974–Spring 1980

National Endowment for the Humanities,
Seminar in Philosophy of Religion,
Calvin College, Grand Rapids, Michigan Summer 1978

Lecturer in Logic, Department of Philosophy and
Continuing Adult Education Program,
Queens College CUNY, Flushing, New York Summer 1979

National Endowment for the Humanities,
Research Grant in Philosophy of Religion Fall 1979–Summer 1980

Professor, Texas A&M University Fall 1980–Present

Visiting Professor, Rice University Fall 1992

Visiting Researcher, Institute for Studies in Pragmatism,
Texas Tech University, Lubbock, Texas Summer 1996

Adjunct Professor, College of Nursing,
Texas Tech University, Lubbock, Texas Fall 1996–Spring 2002

Visiting Researcher, VINITI (All-Russian Institute for
Scientific and Technical Information),
Moscow, Russian Federation Fall 1997

Visiting Professor, RGGU (Russian State
University for the Humanities),

Moscow, Russian Federation	Fall 1997
Funded Researcher in Non-Deductive Logic and Theoretical Computer Science	Fall 1998–Summer 2005
Professional Work Experience (administrative)	
Member, Student Admissions Committee, Rice University	Fall 1968–Spring 1974
Member, Presidential Search Committee, Texas A&M University	Fall 1976–Spring 1977
Chair, Liberal Arts Council, Texas A&M University, College of Liberal Arts	Fall 1976–Spring 1978
Chair, Libraries Section, Texas A&M University 10-year Accreditation Committee	Fall 1978–Spring 1980
Member, Liberal Arts Council, Texas A&M University, College of Liberal Arts	Fall 1986–Spring 1990
Chair, University Academic Freedom, Tenure, and Responsibility Committee, Texas A&M University	Fall 1986–Spring 1988
Member, Dean’s Advisory Committee, Texas A&M University, College of Liberal Arts	Fall 1986–Spring 1988
Member, Faculty Development Leave Committee, Texas A&M University	Fall 2007–Fall 2009
Member, President’s Program to Enhance Scholarly and Creative Activities	Spring 2009
Professional Work Experience (miscellaneous)	
Director, International Conference, <i>Frontiers in American Philosophy</i>	Fall 1986–Fall 1988
Senior Co-Editor, Volumes I and II, <i>Frontiers in American Philosophy</i>	Fall 1989–Spring 1996
Member, Program Committee, American Philosophical Association, Central Division	Fall 1988–Spring 1989
Referee: <i>Historia Mathematica</i> <i>History and Philosophy of Logic</i> <i>Transactions of the Charles S. Peirce Society</i>	
Contributing Editor: <i>Writings of Charles S. Peirce: A Chronological Edition</i>	
Consultant: Lockheed-Martin Aerospace, Marietta, Georgia Army Research Laboratory, White Sands, New Mexico Sandia National Laboratory, Santa Fe, New Mexico VINITI (All-Russian Institute for Scientific and Technical Information, Moscow, Russian Federation) The Fusion Group (a joint government/industry research group, which conducts research into data fusion) Anti-Terrorism Task Force, City of Cleveland and Cayahoga County	

2. Research Grants

(Owing to terms of grant contracts and/or to terms of non-disclosure agreements, neither sources of the grant funds nor exact topics of the funded research may be listed.)

Texas A&M Research Foundation Project	Time Period of Research	Funding Amount
Grant Title: The JSM Hypothesis Generator (75% for PI Robert Burch; 25% for Co-PI Christopher Menzel)	November 2002–March 2003	\$62,400.00
Grant Number/Award Number		
4422510000/003	September 1998–March 2000	\$3365.90-
4449010000/001	September 1999–March 2001	\$189,429.00
4453610000/001	October 1999–September 2000	\$49,116.00
4477910000/001	April 2000–September 2003	\$3365.90
4560710000/001	June 2002–September 2002	\$21,515.00
4576510000/001	October 2002–June 2003	\$27,496.00
4659210000/001	October 2004–August 2005	\$18,260.00
4659210000/003	October 2004–August 2005	\$49,355.00
TOTAL AWARD AMOUNT OF NUMBERED GRANTS		----- \$355,171.00

3. Professional Societies

American Philosophical Association
Charles Sanders Peirce Society
Society for the Advancement of American Philosophy

4. Publications

BOOKS

- Study Guide for Hurley's Logic.* Belmont, CA: Wadsworth Publishing Company, 1981.
Study Guide for Hurley's Logic. 2nd edition. Belmont, CA: Wadsworth Publishing Company, 1985.
Study Guide for Hurley's Logic. 3rd edition. Belmont, CA: Wadsworth Publishing Company, 1988.
Study Guide for Hurley's Logic. 4th edition. Belmont, CA: Wadsworth Publishing Company, 1991.
Study Guide for Hurley's Logic. 5th edition. Belmont, CA: Wadsworth Publishing Company, 1994.
Study Guide for Hurley's Logic. 6th edition. Belmont, CA: Wadsworth Publishing Company, 1997.
Study Guide for Hurley's Logic. 7th edition. Belmont, CA: Wadsworth Publishing Company, 2000.
Study Guide for Hurley's Logic. 8th edition. Belmont, CA: Wadsworth Publishing Company, 2003.
Study Guide for Hurley's Logic. 9th edition. Belmont, CA: Wadsworth Publishing Company,

2006.

Study Guide for Hurley's Logic. 10th edition. Belmont, CA: Wadsworth Publishing Company, 2008.

A Peircean Reduction Thesis: the Foundations of Topological Logic. Lubbock, TX: Texas Tech University Press, 1991.

EDITED VOLUMES

Frontiers in American Philosophy, Volume 1 (with Herman Saatkamp, co-editor). College Station, TX: Texas A&M University Press, 1992.

Frontiers in American Philosophy, Volume 2 (with Herman Saatkamp, co-editor). College Station, TX: Texas A&M University Press, 1996.

ARTICLES IN JOURNALS AND EDITED VOLUMES (excluding reviews and review essays)

"Cohen, Austin, and Meaning," *Ratio* (English Edition), Vol. 15, No. 1, June 1973, pp. 117–124.

"Cohen, Austin, und Bedeutung," *Ratio* (German Edition), Band. 15, Heft 1, June 1973, pp. 112–119.

"The Commandability of Pathological Love," *The Southwestern Journal of Philosophy*, Vol. 3, No. 3, Winter 1972, pp. 131–140; reprinted in Alan Soble, *Eros, Agape, and Philia: Readings in the Philosophy of Love*, New York: Paragon House, 1989, pp. 245–253.

"Ryle on Dispositions and Hypotheticals," *Rice University Studies*, Vol. 58, No. 3, Summer 1972, pp. 49–63.

"Reason-Giving and Action-Guiding in Morality," *The Southwestern Journal of Philosophy*, Vol. 4, No. 2, Summer 1973, pp. 29–38.

"Obligation and Guilt in a Morality of Hypothetical Imperatives," *The Southwestern Journal of Philosophy*, Vol. 5, No. 1, Spring 1974, pp. 129–133.

"Are There Moral Experts?" *The Monist*, Vol. 58, No. 4, October 1974, pp. 646–658.

"Hume on Pride and Humility," *The New Scholasticism*, Vol. 49, No. 2, Spring 1975, pp. 177–188.

"Heidegger and the Bounds of Sense," *The Southwestern Journal of Philosophy*, Vol. 6, No. 1, Winter 1975, pp. 27–30.

"Why Elementary Propositions Cannot Be Negative," *Philosophical Studies*, Vol. 27, No. 6, June 1975, pp. 433–435.

"Two Basic Claims of Phenomenology," *Rice University Studies*, Vol. 61, No. 3, Summer 1975, pp. 13–19.

"What Is Hume's Doctrine of Negation?" *International Logic Review*, Vol. 7, No. 2, December 1976, pp. 236–242.

"Why Grammar Cannot Be Innate," *The Southwestern Journal of Philosophy*, Vol. 7, No. 1, Winter 1976, pp. 37–44.

"Kant's Theory of Beauty as Ideal Art," in George Dickie and Richard Sclafani, eds., *Aesthetics: A Critical Anthology*. New York: St. Martin's Press, 1977, pp. 688–703.

"Animals, Rights, and Claims," *The Southwestern Journal of Philosophy*, Vol. 8, No. 2, Summer 1977, pp. 53–59.

"Functional Explanation and Normalcy," *The Southwestern Journal of Philosophy*, Vol. 9, No. 1, Spring 1978, pp. 45–53.

"Plantinga and Leibniz's Lapse," *Analysis*, Vol. 39, No. 1, January 1979, pp. 24–29.

"James and the 'New' Theory of Reference," *Transactions of the Charles S. Peirce Society*, Vol. 15, No. 4, Fall 1979, pp. 281–297.

"Propositions and the Liar Paradox," *Logique et Analyse*, Vol. 22, No. 85, March–June 1979,

- pp. 55–63.
- “Truth and Modality in James’s ‘The Dilemma of Determinism,’” *The Southern Journal of Philosophy*, Vol. 17, No. 4, Winter 1979, pp. 427–435.
- “Objective Values and the Divine Command Theory of Morality,” *The New Scholasticism*, Vol. 54, No. 3, Summer 1980, pp. 279–304.
- “Bayesianism and Analogy in Hume’s Dialogues,” *Hume Studies*, Vol. 6, No. 1, April 1980, pp. 32–44.
- “The Defense from Plenitude Against the Problem of Evil,” *International Journal for the Philosophy of Religion*, Vol. 12, 1981, pp. 29–37.
- “An Unpublished Logic Paper by Josiah Royce,” *Transactions of the Charles S. Peirce Society*, Vol. 23, No. 2, Spring 1987, pp. 173–204.
- “A Transformation in Royce’s View of Kant,” *Transactions of the Charles S. Peirce Society*, Vol. 23, No. 4, Fall 1987, pp. 557–578.
- “The Concept of Freedom in Royce’s Early Idealism,” *Tulane Studies in Philosophy*, Vol. 35, 1987, pp. 23–30.
- “Royce and Wittgenstein on the Context of Privacy,” *History of Philosophy Quarterly*, Vol. 5, No. 3, July 1998, pp. 287–304.
- “Valental Aspects of Peircean Algebraic Logic,” *Computers and Mathematics with Applications*, Vol. 23, No. 6–9, 1992, pp. 665–677. Reprinted in Fritz Lehmann, ed., *Semantic Networks in Artificial Intelligence* (Oxford, New York, Seoul, Tokyo: Pergamon Press, 1992), pp. 665–677.
- “Valency, Adicity, and Adity in Peirce’s MS 482,” *Transactions of the Charles S. Peirce Society*, Vol. 27, No. 2, Spring 1991, pp. 237–244.
- “Die Logischen Operationen in Peirce’s ‘Beschreibung einer Notation für die Logik der Relative,’” in *Kreativität und Logik: Charles S. Peirce und das Problem des Neuen* (Frankfurt am Main: Suhrkamp Verlag, 1994), pp. 77–113.
- “Game Theoretical Semantics for Peirce’s Existential Graphs,” *Synthese*, Vol. 99, 1994, pp. 361–365.
- “A Tarski-Style Semantics for Peirce’s Beta Graphs,” in Jacqueline Brunning and Paul Forster, eds., *The Rule of Reason: The Philosophy of Charles Sanders Peirce* (Toronto, Buffalo, and London: University of Toronto Press, 1997), pp. 81–95.
- “Peirce on the Application of Relations to Relations,” in Nathan Houser, Don D. Roberts, and James Van Evra, eds., *Studies in the Logic of Charles Sanders Peirce* (Bloomington and Indianapolis: Indiana University Press, 1997), pp. 206–233.
- “Peirce’s Reduction Thesis,” in Nathan Houser, Don D. Roberts, and James Van Evra, eds., *Studies in the Logic of Charles Sanders Peirce* (Bloomington and Indianapolis: Indiana University Press, 1997), pp. 234–251.
- “Quasi-Axiomatic Systems,” United States Army Report, Publications of the Army Research Laboratory, White Sands, New Mexico, 1997.
- “Semeiotic Data Fusion,” in Proceedings of the Third International Conference on Information Fusion, Vol. II (Paris, France: ONERA/ISIF, 2000), pp. WeC4-11–WeC4-16.
- “William James,” in *The Routledge Companion to Nineteenth Century Philosophy*, ed. Dean Moyar (London and New York: Routledge, 2010), pp. 747–768.
- “Royce on Boolean Rings and the T-Relation,” *Transactions of the Charles S. Peirce Society*, Volume 46, No. 2 (Spring 2011), pp. 221–241.
- “Peirce’s 10, 28, and 66 Sign-Types: The Simplest Mathematics,” *Semiotica*, Volume 184, Number 1 (April 2011), pp. 93–98.
- “The Fine Structure of Ligatures and Lines of Identity,” *Semiotica*, Volume 186, Number 1/4 (Summer 2011), pp. 21–68.
- “The Fine Structure of Ligatures and Lines of Identity,” in João Queiroz and Frederick Stjernfelt, eds., *Diagrammatic Reasoning and Peircean Logic Representations* (Berlin/Boston: Mouton De Gruyter, 2011), pp. 21–68.
- “If Universes Were As Plenty As Blackberries: Peirce on Induction and Verisimilitude,” *Transactions of the Charles S. Peirce Society*, Volume 46, No. 3 (Summer 2010), pp.

SELECTED BOOK REVIEWS AND REVIEW ESSAYS

- Review of *The Development of Lester Ward's World View*, by Alvin F. Nelson. *The Southwestern Journal of Philosophy*, Vol. 3, No. 2, Fall 1972, pp. 141–145.
- Review of *The Life and Thought of Josiah Royce*, by John Clendenning. *Transactions of the Charles S. Peirce Society*, Vol. 22, No. 4, Fall 1986, pp. 467–476.
- Review Essay: “New and Old in the Century of Genius,” *Seventeenth Century News*, ????
- Review of *Kepler's Geometrical Cosmology*, by J. V. Field. *Seventeenth Century News*, Vol. 47, Nos. 3 & 4, Fall–Winter 1989, pp. 55–56.
- Review of *Naturordnung und Zeichenprozess, Schriften über Semiotik und Naturphilosophie*, by Helmut Pape. *Transactions of the Charles S. Peirce Society*, Vol. 26, No. 1, Winter 1990, pp. 147–152.
- Review of *An Introduction to the Philosophy of Induction and Probability*, by L. Jonathan Cohen, and of *Induction: Processes of Inference, Learning, and Discovery*, by John H. Holland, Keith J. Holyoak, Richard E. Nisbett, and Paul R. Thagard. *Teaching Philosophy*, Vol. 14, No. 4, December 1991, pp. 427–431.
- Review Essay: *Writings of Charles S. Peirce: A Chronological Edition*, Vol. 4, ed. Christian J. W. Kloesel. *History and Philosophy of Logic*, Vol. 11, 1990, pp. 217–224.
- Review of *Studies on Natural Logic and Categorical Grammar*, by Victor Sanchez. *History And Philosophy of Logic*, Vol. 13, 1992, pp. 250–251.
- Review of *Signs of Logic: Peircean Themes on the Philosophy of Language, Games, and Communication*, by Ahti-Veikko Pietarinen. *Transactions of the Charles S. Peirce Society*, Vol. 42, No. 4, Fall 2006, pp. 577–581.

ENCYCLOPEDIA AND DICTIONARY ENTRIES

- 16 entries in *The Cambridge Dictionary of Philosophy* (New York, Cambridge, and Melbourne: Cambridge University Press, 1995): antilogism, biconditional, conjunction, contraposition, contraries, contravalid, converse, disjunctive proposition, iff, inconsistent triad, logical product, negation, partition, sorites, truth table, truth-value.
- “Peirce,” *Stanford Encyclopedia of Philosophy* (<http://plato.stanford.edu/entries/peirce>). Latest Major Revision: November 2014.

INDUSTRIAL AND GOVERNMENTAL WHITE PAPERS AND TECHNICAL REPORTS

- Numerous white papers and technical reports, totaling over 1000 pages. Grant non-disclosure agreements prohibit these from being described in detail.

TRANSLATIONS FROM RUSSIAN

- Over 30 scientific and logical papers translated from Russian. Grant contracts prohibit these from being described in detail.

TRANSLATIONS FROM GERMAN

- Several of these are prohibited from being described in detail. The following is an academic article that is in the public domain:
- Karl-Otto Apel, “Pragmatic Philosophy of Language Based on Transcendental Semiotic,” in Robert W. Burch and Herman J. Saatkamp, eds., *Frontiers in American Philosophy, Vol. II* (College Station, Texas: Texas A&M University Press, 1996), pp. 3–26.

COMPUTER PROGRAMS

Over 200,000 lines of computer code (in PERL and C) are not in the public domain. An automatic hypothesis generation program is in the public domain and may be accessed, after receiving a password, at the web site: <http://finnlab.tamu.edu>.

SELECTED PRESENTATIONS

- "Game Theoretical Semantics for Peirce's Existential Graphs," Annual Meeting of the Charles S. Peirce Society, New York, New York, December 28, 1991.
- "Logic Through Pictures," Colloquium, Rice University, Houston, Texas, November 22, 1992.
- "The Shame of Psychotherapy," Conference on Medical Ethics, Lamar University, Beaumont, Texas, March 4, 1993.
- "The Impact of Technology on Ethical Questions in Medicine," Conference on Medical Ethics, Lamar University, Beaumont, Texas, March 5, 1993.
- "Psychology and Social Control," RGGU (Russian State University for the Humanities), Moscow, Russian Federation, November 14, 1996.
- "Peircean Graphical Logic," Lecture Series, Institute for Studies in Pragmaticism, Texas Tech University, Lubbock, Texas, June 1996.
- Peirce's Existential Graphs," Lectures at VINITI (The All-Russian Institute for Scientific and Technical Information: A division of the Russian Academy of Sciences), Moscow, Russian Federation, Fall 1996.
- "Semiotic Data Fusion," Third International Conference on Information Fusion, *Cité des Sciences*, Paris, France, July 13, 2000.
- "Inquiry as Reduction of Indeterminacy," Intelligent Systems Laboratory, VINITI (The All-Russian Institute for Scientific and Technical Information), December 14, 2000.
- "Information, Entropy, and the Reduction of Indeterminacy in Investigation," Colloquium, Texas A&M University, April 18, 2002.
- "If Universes Were as Plenty as Blackberries," Colloquium, Texas A&M University, November 15, 2007.
- "Royce, Boolean Rings, and the T-Relation," American Philosophical Association, Eastern Division Annual Meeting, Baltimore, Maryland, December 28, 2007.
- "Can Nations Be Tragic?" Southern Illinois University, Carbondale, Illinois, March 28, 2008.

5. Current Research Interests

Peirce's Inductive Logic and Abductive Logic, and Their Relation to the Notion of Risk
Royce's System Σ
Royce's Extensions to the Algebra of Logic
Infinitesimals and the Continuum in Peirce's Thinking
"Projection" and the Transition from the Early to the Late Wittgenstein
Types of Illocutionary Acts Falling under Austin's Notion of "Expositives"

6. Work in Progress

The System Σ of Josiah Royce: Its Sense and Significance
"Royce's Canonical Example of System Σ "
"Berkeley on Infinitesimals and Fluxions"
"Peirce and LaPlace's Law of Succession"
"Wittgenstein's Progress: from Projection to Use"

“How To Talk in Austin’s S₀”