

DANIEL ROTHBART
Curriculum Vita

Institute for Conflict Analysis and Resolution
George Mason University
3401 North Fairfax Drive
MSN 4D3
Arlington Virginia 22201
(703) 993-4474
drothbar@gmu.edu

EDUCATION

M. A., Philosophy State University of New York at Binghamton

Ph.D., Philosophy Washington University, St. Louis, Missouri
Dissertation: "Conjectures and Refutations:
Karl Popper's Philosophy of Science"

CURRENT POSITIONS

Professor of Conflict Analysis and Resolution, Institute for Conflict Analysis and Resolution

Courses:

Philosophy, Conflict Theory, and Violence
Positioning Theory and Protracted Conflict (team-taught)
The Enemy and the Innocent in Violent Conflicts
Philosophy and Conflict Research
Research and Inquiry in Conflict Resolution
Conceptions of Practice
Ethics of Practice

Professor of Philosophy, Department of Philosophy, George Mason University

Courses:

Philosophy of Social Science
Thomas Kuhn and His Critics
Critical Thinking
Religion and Science
Metaphors, Models and Meanings in Science
Science, Reason and Reality
The Ethics of Health Care
Medicine and Human Values

PREVIOUS POSITIONS

Visiting Research Scholar, Linacre College, Oxford, Summer 2000
Acting Chair, Department of Philosophy and Religious Studies, GMU, 1995-1996
Visiting Research Scholar, Department of Philosophy, Dartmouth College, Summer 1994
Visiting Research Scholar, Department of History and Philosophy of Science, University of
Cambridge, Summer 1990

FELLOWSHIPS AND AWARDS

ICAR Faculty Research Award 2007
Excellence in Teaching Award, Office of the Provost, GMU, 2000
Fenwick Fellowship Award, GMU, 2000
Technology Across the Curriculum, College of Arts and Science, GMU, 2000
Templeton Foundation Award for Science and Religion Course, \$10,000, 1997
Faculty Study Leave, Fall 1999, George Mason University
National Endowment of Humanities Summer Seminar: Science and Values, 1985

SCHOLARSHIP IN CONFLICT ANALYSIS

Book:

Co-edited, [Identity, Morality, and Threat: Studies in Violent Conflict](#), Lexington Books: 2006.

Book Chapters and Articles:

"The Enemy and the Innocent of Violent Conflict," (co-authored) in [Conflict Resolution: Core Concepts, Theories, Approaches and Practices](#), Sean Byrne, Dennis Sandole, Jessica Senehi, and Ingrid Staroste-Sandole, Eds., Routledge Press, forthcoming.

"Rwandan Radio Broadcasts and Hutu/Tutsi Positioning" (Co-authored) in [Global Conflict Resolution through Positioning Theory](#), Edited by Fathali M. Moghaddam and Rom Harré, Springer (New York), forthcoming.

"Causation as a Core Concept in Conflict Analysis" (co-authored) in [Conflict Resolution: Core Concepts, Theories, Approaches and Practices](#), Sean Byrne, Dennis Sandole, Jessica Senehi, and Ingrid Staroste-Sandole, Eds., Routledge Press, forthcoming.

"Social Justice and Indigenous Identities," [Social Justice](#), Vol. 6. No. 1 (2006): 98-112

"Moral Denigration of the Other" (co-authored) in [Identity, Morality, and Threat: Studies in Violent Conflict](#) Lexington Books: 2006.

"Good Violence and the Myth of the Eternal Soldier" (co-authored) in [Identity, Morality, and Threat: Studies in Violent Conflict](#) Lexington Books: 2006.

In Progress:

[Why They Die: Innocent Devastation in Protracted Conflict](#) (co-authored)

[When Practice Works: Stories from the Field of Conflict Resolution](#) (Co-edited with Sandy Cheldelin and Wallace Warfield)

Invited Presentations:

"Threat and Collective Axiology" presentation for panel on *Identity, Morality, and Threat: Studies in Violent Conflict*, 49th International Studies Association Meeting, San Francisco, 26 – 29 March 2008.

“The Sources of Violent Conflict” Academy of Sciences, Institute of Philosophy and Law
Dushanbe, Tajikistan, May 10, 2006

“Indigenous Identity and Social Justice,” 2005 Northeast Political Science
Association/International Studies Association Northeast, November 2005, Philadelphia, PA.

“Ingroup Purification and Outgroup Devaluation,” American Psychological Association, Annual
Meeting, Washington, DC, August 2005.

“Memory, Identity, and Conflict,” International Studies Association Meeting, Boston, November
10-13, 2004.

SCHOLARSHIP IN PHILOSOPHY

Books, Authored

Philosophical Instruments: Minds and Tools at Work University of Illinois Press, 2007.
<http://www.press.uillinois.edu/books/catalog/35pmk7wy9780252031366.html>

Explaining the Growth of Scientific Knowledge: Metaphors, Models and Meanings. Mellen
Press, 1997 (Problems in Contemporary Philosophy, vol. 37).

Books, Edited:

Modeling: Gateway to the Unknown. A Work by Rom Harré. Studies in Multidisciplinarity.
Volume 1. Amsterdam, The Netherlands: Elsevier Science, B. V. 2004.
http://www.elsevier.com/wps/find/bookdescription.cws_home/702731/description#description

Science, Reason and Reality: Issues in the Philosophy of Science. Forth Worth, TX:
Harcourt/Brace, 1997. (Also Bilingual Edition. Beijing, China: Peking University Press).
[http://www.superbookdeals.com/cgi-
bin/moreinfo.cgi?item=962148&SEO_TID=2502691&seoid=5](http://www.superbookdeals.com/cgi-bin/moreinfo.cgi?item=962148&SEO_TID=2502691&seoid=5)

Inquiry: Critical Thinking Across the Disciplines, Summer 1996, Vol. XV.

Articles and Book Chapters (Refereed Review):

"Visualizing Instrumental Techniques of Surface Chemistry" (co-authored), in Philosophy of
Chemistry, edited by D. Baird and E. Scerri. Boston Studies in the Philosophy of Science,
Dordrecht: Springer Publishing Company, 2005: 309-324.

“Scientific Prototypes as Analogies of Science,” Theoria and Historia Scientiarum, Vol. 8, No. 1
(2004): 209-222.

“General Introduction,” Modeling: Gateway to the Unknown. A Work by Rom Harré.
Amsterdam, The Netherlands: Elsevier Science, B. V. 2004.

"The Revolution in Instrumentation," Hyle: An International Journal in the Philosophy of
Chemistry, Vol. 9 (2003): 123-126.

"Laboratory Metaphors," University Scholars Occasional Papers, Volume 2, National University

of Singapore, 2003.

"Justifying Instrumental Techniques of Analytical Chemistry" (co-authored), in Chemical Explanation: Characteristics, Development, Autonomy, edited by Joseph E. Earley, Sr. Annals of the New York Academy of Sciences, New York: The New York Academy of Sciences, 2003, pp. 250-256.

"Designing Instruments and the Design of Nature," in Scientific Experimentation and its Philosophical Significance, edited by Hans Radder. Pittsburgh, Pennsylvania: University of Pittsburgh Press, 2003, pp. 236-254.

"The Dual Nature of Chemical Substance," Techné: Society for Philosophy & Technology, Volume 6 Number 2 (Winter 2002).

"Philosophy and the Engineering of Instruments" in Analecta Husserliana: The Yearbook of Phenomenological Research, Volume LXXIV: Energies, Forces and the Shaping of Life, edited by Anna-Teresa Tymieniecka. Kluwer Academic Publishers, 2002, pp. 117-133.

"Analogy," Encyclopedia Americana, Volume One. Grolier Educational. (2002): Pp.1-3.

"Substance as Function in Chemical Research," in Molecules and Minds, edited by N. Bhushan and S. Rosenfeld. Oxford: Oxford University Press, 2000, pp. 75-89.

"On the Relationship between Instrument and Specimen in Chemical Research," Foundations of Chemistry: Philosophical, Historical and Interdisciplinary Studies of Chemistry, Vol. 3 (1999): 257-270.

"The Design of Nature through Chemical Instrumentation," in Ars Mutandi: Issues in Philosophy and History of Chemistry, edited by N. Psarros and K. Gavroglu. Leipzig: Leipziger Universitäts Verlag, 1999, pp. 65-73.

"Extending Popper's Epistemology to the Laboratory," Dialectica, Vol. 52, No. 3 (1998): 247-254.

"Metaphor as an Exact Concept in the Theory of Properties," Theoria, Volume 2 (1998): 91-103. (Co-authored).

"Kant's Critique of Judgment and the Scientific Investigation of Nature," Hyle: An International Journal in the Philosophy of Chemistry, Volume 3 (1997): 65-80. (Co-authored).

"Spectrometers as Analogues of Nature," in PSA: 1994, Volume One. East Lansing, MI: Philosophy of Science Association, 1994, pp. 141-148.

Reprinted with minor revision as "Observing the Analogies of Nature," in Continental and Postmodern Approaches to the Philosophy of Science, edited by B. Babich, D. Bergoffen, S. Glynn. Aldershot, England: Avebury Press, 1995, pp. 111-120.

"The Epistemology of a Spectrometer," Philosophy of Science, Volume 61 (1994): 25-38. (Co-authored) (Also translated into Polish.)

"Discovering Natural Kinds through Inter-theoretic Prototypes," Methodology and Science,

Volume 26 (1993): 171-189.

"On the Role of History in Mathematical Proof," Telesio Courses in Mathematics, Vol. 3, edited by L. Maieru and D. Struppa. Cozensa, Italy: Mediterranean Press, 1991, pp. 121-130.

"Analogical Information Processing within Scientific Metaphor," in Analogical Reasoning: Perspectives of Artificial Intelligence, Cognitive Science, and Philosophy, Synthese Library series, edited by D. Helman. Dordrecht, Netherlands: D. Reidel, 1988, pp. 377-399.

"Scientific Metaphor within a Problem Solving Methodology," in Abstracts of the VIII International Congress of Logic, Methodology and Philosophy of Science, edited by I. Frolov. Moscow, USSR: Institute of Philosophy of the Academy of Sciences of the USSR, 1987, vol. 4, Sec. 6, pp. 119-123.

"Metaphor, Meaning and Methodology," in Growth of Knowledge: Philosophy, Science, and Dialectics, edited by H. Heinz and J. Manninen. Cologne, West Germany: Pahl-Rugenstein Verlag, 1987, pp. 102-108.

"Scientific Unification Through Metaphor," in Essays on Creativity and Science, edited by D. DeLuca. Honolulu, Hawaii: Hawaii Council of Teachers, 1986, pp. 163-166.

"The Semantics of Metaphor and the Structure of Science," Philosophy of Science, Volume 51 (1984): 595-615.

"An Analysis of Changing Trends in Philosophies of Science on Nursing Theory Development and Testing," Advances in Nursing Science 6 (1984): 1-13. (Co-authored).

Reprinted in Perspectives on Nursing Theory, edited by L. Nicholl. Boston: Little, Brown and Co., 1986, pp. 293-303.

"Moral Contracts and the Physician-Patient Relation," Journal of Bioethics, Volume 5 (1984): 54-63.

"Reconciling Logicism with Historicism," Methodology and Science: International Journal for the Empirical Study of the Foundations of Science, Volume 17 (1984): 115-125.

"Towards a Logical Analysis of Extended Argument," Informal Logic, Volume V (1983): 15-20.

"The Moral Dilemma of Treating Spina Bifida Newborns," Contemporary Philosophy IX (1983): 2-4 (Co-authored)

"Demarcating Genuine Science from Pseudo-Science," in Philosophy of Science and the Occult, edited by P. Grim. Albany, New York: State University of New York Press, 1982, pp. 94-106.

"Popper Against Inductivism," Dialectica: International Review of Philosophy of Knowledge, Volume 34 (1980): 121-127.

Invited Papers:

"Science and Values," Symposium: Le Cenacle, University of Quebec at Rimouski, Canada, May 20, 2003.

"Metaphors, Models and Meanings in Science" Workshop on Metaphor and the Sciences, The National University of Singapore, November 25, 2002.

"Explaining Instrumental Techniques of Analytical Chemistry," Sixth Summer Symposium of the International Society for the Philosophy of Chemistry, Georgetown University, Washington, DC., August 4-8, 2002.

"Metaphors, Instrumental Technologies and Advances in 19th Century Science,," INCS 17th Annual Conference, George Mason University, April 11-14, 2002.

"Agents of Skill," Language, Logic, and Logistics: Agent Modeling from Cross-Disciplinary Discourse, New Mexico State University, Las Cruces, New Mexico, January 25-27, 2002.

"Lines, Designs, and Creative Minds in Engineering," 2001 Conference of the Humanities & Technology Association, University of Virginia, Charlottesville, September 19-21, 2001.

"Chemical Substance as Technological Artifact," at Fifth Meeting of International Society for Philosophy of Chemistry, Loughborough University, Loughborough, England, August 6-9, 2001.

"Engineering Models as Mimetic Devices," Language, Logic, and Logistics: Modeling and Cross-Disciplinary Discourse, New Mexico State University, Las Cruces, New Mexico, January, 2001.

"Designing Instruments and the Design of Nature," Towards a More Developed Philosophy of Scientific Experimentation: An International Workshop, Vrije University, Amsterdam, June 15-17, 2000.

"Wittgenstein and the Grammar of Schematic Diagrams in Science," Russell and Wittgenstein Conference, American University, Washington, DC, March, 2000.

"Philosophy and the Engineering of Instruments" The Third International Congress in Phenomenology of Life and the Sciences of Life, Jagiellonian University, Krakow, Poland, September 13-16, 1999.

"Philosophy and the Engineering of Analytical Instruments" International Society for the Philosophy of Chemistry, University of South Carolina, Columbia, South Carolina, August, 1999.

"Can We Exclude Nature from Laboratory Research?" Philosophy of Science Association Meeting, Kansas City, Missouri, October, 1998.

"The Role of Nature in Chemical Instrumentation" International Society for the Philosophy of Chemistry, Sidney Sussex College, Cambridge, England, August, 1998.

"Hacking's Turn to Antirealism," International Society for the Philosophy of Chemistry, Bradford, England, July 1997.

"The Purposiveness of Nature and Kant's Crisis of Judgment" History of Philosophy of Science Conference, Roanoke, VA, April 1996 (co-authored).

"The Design of Nature through Chemical Instrumentation," International Conference on the Philosophy of Chemistry, Athens, Greece, April 1996.

"The Dynamics of DNA" International Society for the Philosophy of Chemistry, Bradford, England, July, 1994.

"Spectrometers as Analogues of Nature," Philosophy of Science Association Meeting, New Orleans, Louisiana, October, 1994.

"Towards an Epistemology of Instrumentation," IX International Congress of Logic, Methodology, and Philosophy of Science," Uppsala, Sweden, August 1991.

"Observing the Analogies of Nature," XIV Kiev Symposium on the Science of Science, Kiev, Ukraine, September, 1991.

"The Structure of Concept Transformation: Philosophical Implications of John Lyons Semantic Field Theory," World Congress of Philosophy, Brighton, England, August, 1988.

"Scientific Metaphor in a Problem Solving Methodology," X International Congress of Logic, Methodology and Philosophy of Science, Moscow, August 1987.

"Scientific Unification through Metaphor," Creativity and Science Conference, University of Hawaii, March 1985.

"Metaphor, Meaning, and Methodology," International Association for the Study of Dialectical Philosophy, Helsinki, Finland, September, 1984.

PROFESSIONAL SERVICE

Evaluator/Consultant

U.S. Department of State, Bureau of Educational and Cultural Affairs,
Concordis International

Editorial Boards

Online Journal of Issues in Nursing

Foundations of Chemistry: Philosophical and Historical Studies in Chemistry, Kluwer Academic Press

Hyle: An International Journal in the Philosophy of Chemistry, Institute of Philosophy,
University of Karlsruhe, Germany