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Academic Background

1955: B.S. with highest honors in chemistry, University of Illinois

1956: M.S. in chemistry, University of Illinois

1959: Passed Ph.D. qualifying examination in chemistry, University of Illinois

1961: National Science Foundation Summer Institute in Radio-chemistry, University of Iowa

1962: National Science Foundation Summer Institute in Isotope Technology, University of Michigan

1964: Began study of history and philosophy of science, Chelsea College, University of London

1969: Ph.D. in philosophy of science, University of London (Chelsea)

Title of Dissertation: *The General Correspondence Principle: A study of relations between scientific theories.* Adviser: Heinz R. Post.

Academic Experience

1955-58: Teaching assistant in chemistry, Univ. of Illinois

1960-63: Instructor in chemistry, Elmhurst College, Elmhurst, IL

1963-64: Head of chemistry section, American College for Girls, Istanbul, Turkey

1967: Visiting Lecturer in the General Studies Dept., Sir John Cass College, University of London

- 1968: Visiting Lecturer in the Postgraduate Certificate in
Education Programme, Borough Polytechnic, London
- 1968-69: Lecturer in philosophy of science, Philosophy of Education
Dept., Ontario Institute for Studies in Education,
Toronto, Canada
- 1969-70: Assistant Professor in philosophy of science, Philosophy of
Education Dept., Ontario Institute for Studies in
Education, Toronto, Canada
- 1970-73: Assistant Professor, Dept. of History & Philosophy of
Science, Indiana University, Bloomington, IN
- 1971: Visiting Lecturer at El Centro Intercultural de
Documentacion, Cuernavaca, Mexico
- 1973: Visiting Assistant Professor (summer), History of Science
Dept., Harvard University
- 1973-81: Associate Professor, Dept. of History & Philosophy of
Science, Indiana University, Bloomington, IN
- 1975, 81: Symposium Leader, Alpbach European Forum (summer),
Oesterreichisches College, Alpbach, Austria
- 1981-present: Professor, Dept. of History & Philosophy of Science,
Indiana Univ., Bloomington, IN
- 1997: Faculty member, Summer School for Theory of Knowledge,
Warsaw (Madralin), Poland
- 1999-2004: Editor-in-Chief of *Philosophy of Science*
- 2000: Professor Emeritus, Indiana University
- 2000: Fellow of the *American Association for the Advancement of Science*
- 2004-2008: Editor-in-Chief of *The New Dictionary of Scientific Biography*

Books

- Nature and Causes of Homosexuality: A Philosophic and Scientific Inquiry* (edited) Research on Homosexuality. Vol.III. New York: The Haworth Press, 1981.
- Philosophy and Homosexuality* (edited). Harrington Park Press, 1985. (PB version of 1981.)
- Professing Feminism: Cautionary Tales From the Strange World of Women's Studies* (co-author Daphne Patai). New York: Basic Books, 1994.
- A House Built on Sand: Exposing Postmodernist Myths about Science* (edited). New York: Oxford University Press, 1998. (PB version 2000).
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- Scrutinizing Feminist Epistemology: An Examination of Gender in Science* (co-editors Cassandra L. Pinnick and Robert F. Almeder) . Rutgers University Press, 2003.
- Scientific Values and Civic Virtues* (edited). Oxford University Press, 2005.
- Editor-in-Chief, *A New Dictionary of Scientific Biography*, 8 volumes. New York: Charles Scribner's Sons (2007)

Articles Published

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- "Toward an Integration of Content and Method in the Science Curriculum." *Curriculum Theory Network* 4 (1969), 24-44.
- "Inter-Theoretic Criticism and the Growth of Science. *Boston Studies in the Philosophy of Science*, Vol.VIII. Edited by Roger C. Buck and Robert S. Cohen. Dordrecht: Reidel, 1971, 160-73.
- "For and Against Method." Essay review of *Analyses of Theories and Methods of Physics and Psychology*, edited by Michael Radner and Stephen Winokur. *Minnesota Studies in the Philosophy of Science*, Vol.IV. *Brit. J. Phil. Sci.* 23, 1972, 274-90.

- "Theory Change in Science." *Conceptual Change*. Edited by Glenn Pearce. Dordrecht: Reidel, 1972, 167-98.
- "Karl Popper, Philosophy and Politics." Essay review of *Popper*, by Bryan Magee. *Times Higher Educational Supplement* (London), (June 7, 1973), 13.
- "Pourquoi y a-t-il si peu de femmes scientifiques?" *Autocritique de la science*. Edited by A. Jaubert and J.M. Leblond. Paris: Editions du Seuil, 1974, 352-54.
- "Bartley's Theory of Rationality," *Philosophy of the Social Sciences*, 4 (1974), 75-81.
- "On Popper's Philosophy of Social Science." *PSA 1972*. Edited by K.F. Schaffner and R.S. Cohen, Boston Studies in the Philosophy of Science, Vol. XX. Dordrecht: Reidel, 1974, 195-207.
- "Discussion: An Exploration of Salmon's S-R Model of Explanation," *Philosophy of Science*, 42 (1975), 270-74.
- "Popper's Metaphysical Research Program for the Human Sciences," *Inquiry*, 18 (1975), 437-62.
- "Popper's Rationaliteitsprincipe: Onjuist, Onfalsifieerbaar en Wetenschappelijk?", *Amsterdams Sociologisch Tijdschrift*, 1 (1975), 29-41.
- "Rational Reconstructions." Edited by R.S. Cohen et al., *Essays in Honor of Imre Lakatos*. Dordrecht: Reidel, 1976, 359-69.
- "Galileo and the Problem of Accidents," *Journal of the History of Ideas*, 38, (1977), 389-408.
- "Towards a New Theory of Scientific Inquiry." *Progress and Rationality in Science*. Edited by G. Radnitzsky. Dordrecht: Reidel, 1978, 253-78.
- "The Problem of Appraising Scientific Theories." *Current Research in Philosophy of Science*. Edited by P.D. Asquith and H.E. Kyburg, Jr. East Lansing, Philosophy of Science Association, 1979, 228-51.
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- "Science, Philosophy of." *Arete Encyclopedica*, 1980.
- "Analysis as a Method of Discovery during the Scientific Revolution." *Scientific Discovery: Case Studies*. Edited by T. Nickles. Dordrecht: Reidel, 1980, 21-49.
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- "Ideologie, Wissenschaft und eine freie Gesellschaft." *Versuchen Aufsätze zur Philosophie Paul Feyerabend's*. Edited by Hans Peter Duerr. Frankfurt: Suhrkamp, 1981, Band 2, 95-115.
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- "Ethical Problems in Scientific Communication." *Rationality in Science and Politics*. Edited by G. Andersson. Dordrecht: Reidel, 1984, 191-203.
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- "Commentary on 'The Introduction of Western Technology into China and Japan'," *Proceedings of the Tenth International Conference on the Unity of the Sciences*, Seoul: The International Cultural Foundation Press, 1982, 597-602.
- "Theoretical Pluralism and Incommensurability: *Implications for Science and Education*." *Philosophica* 31 (1983), 85-108.
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- "Stereotypes, Statistics, and Schemata." *Freedom and Rationality*. Ed. by F. D'Agostino and I.C. Jarvie. Dordrecht: Kluwer, 1989, pp.111-24.
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- "Comments," (On Carroll's "The Politics of 'Originality'"). *J.of Women's History* 2 (1990), pp.164-5.
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- "Ideology, Heuristics and Rationality in the Context of Discovery," S. French and H. Kamminga (eds.), *Correspondence, Invariances and Heuristics*, Dordrecht: Kluwer, 1993, pp.125-36.
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- "Afterthoughts, 1995." *Science and Education* 5 (1996), 402-406.
- "Chemistry, Philosophical Aspects of," *Routledge Encyclopedia of Philosophy*. London: Routledge (1998)
- "Popper's Contributions to Our Understanding of Social Science," *Foundations of Science* 2 (1997), 365-70.
- "A Critique of the Feminist Repudiation of Logic," *The Skeptical Intelligencer* 3/2 (1998) 14-20.
- "Scrutinizing Science Studies." *A House Built on Sand*. Edited by Noretta Koertge. New York: Oxford University Press (1998), 3-6.
- "Postmodernisms and the Problem of Scientific Literacy." *A House Built on Sand*. Edited by Noretta Koertge. New York: Oxford University Press (1998), 257-71.
- "Feminism: A Mixed Blessing to Women in Science", in *Women in Science: Meeting Career Challenges*, ed. By Angela M. Pattatucci. London: Sage (1998), 189-202.
- "Postmodernist Transformations of the Problem of Scientific Literacy, " *Towards Scientific Literacy* (Proceedings of the 1997 Meeting of the History and Philosophy of Science and Science Teaching Society), Faculty of Education, University of Calgary (1999) 450-456.
- "The Zero-Sum Assumption and the Symmetry Thesis," *Social Studies of Science* 29/5 (1999), 561-568.
- "Science - A House Built on Sand? Conversation with Noretta Koertge," (with Friedrich Stadler and Illka A. Kieseppa) in *Epistemological and Experimental Perspectives on Quantum Physics*, ed. By Daniel Greenberger, et al. Dordrecht: Kluwer Academic Publishers (1999), 279-301.

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“Science, Values and the Value of Science,” *Philosophy of Science* 67 (Proceedings) (2000), S45-57.

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“A Methodological Critique of the Semantic Conception of Theories” in C. Cheyne & J. Worrall (eds.) *Rationality and Reality*. Springer, 2006, 234 – 254.

“The Science Wars,” [An essay review of James Robert Brown, *Who Rules in Science?*] *Minerva* (2006)

“The Moral Underpinnings of Popper’s Philosophy” (forthcoming in *Cambridge Companion to Popper*)

“Retrospective vs. Prospective Accounts of Science” (forthcoming in *Synthesis and the Growth of Knowledge: Essays at the Intersection of History, Philosophy, and Science*, Open Court)

"Introduction," in *A New Dictionary of Scientific Biography*, edited by Noretta Koertge. New York: Charles Scribner's Sons (2007) ,Vol. 1, pp. xi-xiii

"Critical Perspectives on Feminist Epistemology," in *Handbook of Feminist Research: Theory and Praxis*, edited by Sharlene Nagy Hesse-Biber. Thousand Oaks: Sage Publications (2007), pp. 553-56.

"Expanding Philosophy of Science Into the Moral Domain: Response to Brown and Kourany," *Philosophy of Science* (forthcoming)

"The Moral Underpinnings of Popper's Philosophy of Science," Proceedings of Rethinking Popper Conference, to be edited by Ian Jarvie, et al. (forthcoming)

Book Reviews Published

- Review of *Dialogues on Fundamental Questions of Science and Philosophy*, by A. Pfeiffer, *Physics Bulletin*, XIX (1968).
- Review of *Historical and Philosophical Perspectives of Science*, edited by Roger H. Stuewer, *Minnesota Studies in the Philosophy of Science*, Vol.V. *Philosophical Review*, 82 (1973).
- Review of *The Evolution of the Atomic Theory*, by David P. Mellor. *Isis* 64 (1973).
- Review of *The Pluralist and Possibilist Aspects of the Scientific Enterprise* by Arne Naess. *British Journal for the Philosophy of Science*, 24 (1973).
- Review of *Organized Knowledge. A Sociological View of Science and Technology*, by L. Sklar. *British Journal for the Philosophy of Science*, 25 (1974).
- Review of *The Philosophy of Karl Popper*, edited by Paul Arthur Schilpp. *The Library of Living Philosophers*, Vol.XIV. *The American Scientist*, 64 (1976).
- Review of *Science in Flux*, by J. Agassi. *British Journal for the Philosophy of Science*, 27 (1976).
- Review of *Plausible Reasoning*, by N. Rescher. *British Journal for the Philosophy of Science* (1978).
- Review of *Methodological and Historical Essays in the Natural and Social Sciences*, edited by R.S. Cohen and M.W. Watofsky. *Isis* 69 (1978).
- Review of *The Scientific Imagination: Case Studies* by Gerald Holton. *British Journal for the Philosophy of Science* 31 (1980).
- Review of *Against Method*, by Paul K. Feyerabend, *British Journal for the Philosophy of Science*, 31 (1980).
- Review of *Science, Revolution and Discontinuity*, by John Krige, *British Journal for the Philosophy of Science*, 34 (1983).
- Review of *From Knowledge to Wisdom: A Revolution in the Aims and Methods of Science*, by Nicholas Maxwell, *Isis* 80 (1989).
- Review of *Whose Science? Whose Knowledge? Thinking from Women's Lives*, by Sandra Harding, *Isis* 83 (1992).
- Review of *Belief and Resistance: Dynamics of Contemporary Intellectual Controversy*, by Barbara Herrnstein Smith, *Brit. J. Phil. Sci.* 50/4 (1999), 601-606.

Translations and Reprints

- I. Lakatos, *Historia de la ciencia y sus reconstrucciones racionales*. Con la colaboracion de H. Feigl, R.J. Hall, N.Koertge y T.S. Kuhn. Madrid: Ed. Tecnos, 1974. (Contains "Inter-Theoretic Criticism and the Growth of Science.")
- Gryuznov and Sadovsky, eds., *Struktura i Razhvitie Nauki*. Moscow: Progress Publishers, 1978. (Contains "Inter-Theoretic Criticism and the Growth of Science.")
- "The Methodological Status of Popper's Rationality Principle," *Theory and Decision*, 10 (1979), 83-95. [English version of the 1975 paper in Dutch.]
- "Ansaetze zu einer neuen Theorie der wissenschaftlichen Forschung." *Fortschritt und Rationalitaet der Wissenschaft*. Edited by G. Radnitzky and G. Andersson. Tuebingen: Mohr (Siebeck), 1980, 147-74. [Translation of "Towards a New Theory of Scientific Inquiry."]
- Spanish translation of "Towards a New Theory of Scientific Inquiry ," 1983.
- Italian translation of "Towards a New Theory of Scientific Inquiry," 1984.
- Chinese translation of "Analysis as a Method of Discovery During the Scientific Revolution." Proceedings of the Third National Symposium on Philosophy of Science. Peking, 1983.
- "Analysis as a Method of Discovery During the Scientific Revolution." *A Portrait of Twenty-Five Years. Boston Colloquium for the Philosophy of Science, 1960-1985*. Edited by R. Cohen and M.W. Wartofsky. Reidel, 1985, pp.238-56.
- "Do Feminists Alienate Women from the Sciences?" reprinted from "Are Feminsits Alienating Women from the Sciences?" in *The Education Digest*, Dec., 1994, pp.49-52.
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about Science* (edited). First printing 2003. Second printing 2006.

Textbooks

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La Naturaleza de la Investigacion Cientifica. Barcelona: Grup de Filosofia
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my textbook.)

Miscellaneous Published

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honorary degree. *Times Higher Educational Supplement*, (June 1,
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