

## NORETTA KOERTGE: CURRICULUM VITAE (Dec., 2007)

Department of History and Philosophy of Science  
Goodbody Hall 124 Home Phone: 812-336-2478  
Indiana University Work Phone: 812-855-3229  
Bloomington, IN 47405 Fax Number: 812-855-3631  
Email: koertge @indiana.edu  
Web page: www.indiana.edu/~koertge

### 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).
- Professing Feminism: : Education and Indoctrination in Women's Studies* (co-author Daphne Patai). Lanham, MD: Lexington Books, 2003. (New, expanded version of our 1994 book.)
- 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

- "Simultaneous Electronic and Vibrational Transitions in the Spectra of Hydrated Nickel (II) Ion." *Journal of Chemical Physics* 32 (1960), 559-61. (T.S. Piper was the Senior Author.)
- "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.
- "Braucht die Sozialwissenschaft wirklich Metaphysik?" *Theorie und Erfahrung*. Edited by H. Albert and K.H. Stapf. Stuttgart: Klett-Coffa, 1979, 55-81.
- "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.
- "Panel Discussion: The Rational Explanation of Historical Discoveries." *Scientific Discovery: Case Studies*. Edited by T. Nickles.

- Dordrecht: Reidel, 1980, 21-49.
- "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.
- "In Praise of Truth and Substantive Rationality: Comments on Laudan's *Progress and Its Problems*." *PSA 1978*, Vol.2, 505- 521.
- "Ethical Problems in Scientific Communication." *Rationality in Science and Politics*. Edited by G. Andersson. Dordrecht: Reidel, 1984, 191-203.
- "Methodology, Ideology and Feminist Critiques of Science." *PSA 1980*, Vol. 2, 346-359.
- "Rosenberg's Un-Kind Remarks about Social Science." Essay Review of *Sociobiology and the Preemption of Social Science*, by Alexander Rosenberg. *Inquiry*, 25, (1982), 471-7.
- "Logic der Socialwissenschaften: Theorien und Erkenntnis-programme." In *Europaeisches Forum Alpbach 1981: Strukturen im Umbruch*. 83-93. (With Willi Meyer).
- "Explaining Scientific Discovery." *PSA 1982*, Vol.1, pp.14-28.
- "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.
- "The Fallacy of Misplaced Precision." *Journal of Homosexuality* 10 (1984), 15-21.
- "On Explaining Beliefs". *Erkenntnis*, 99 (1985), 175-186. (Hempel Festschrift issue.)
- "Beyond Cultural Relativism." *Popper and the Human Sciences*. Edited by G. Currie and A. Musgrave. Dordrecht: Nijhoff, 1985, pp.121-131.
- "Explaining Beliefs". *Rationality: The Critical View*. Edited by J. Agassi and I.C. Jarvie. Dordrecht: Nijhoff, 1987, pp.309-315.
- "Methodological Bootstrapping". *Centripetal Forces in the Sciences*, vol.1. Edited by G. Radnitzky. New York: Paragon House, 1987, pp.129-137.
- "Reflections on Empirical, External and Ideological Studies of Science", Fine, A. et al., eds., *PSA 1986*, Volume 2, Philosophy of Science Association, pp.152-159 (1987).
- "The Crisis of Modernity". *Krise der Moderne? Veraenderungen in Kultur, Wirtschaft und Gesellschaft*, Europaeisches Forum Alpbach

1988. Vienna: Otto Molden, 1988, pp.200-201.
- "Is Reductionism the Best Way to Unify Science?" *Centripetal Forces in the Sciences*, vol.2. Edited by G. Radnitzky. New York: Paragon House, 1988, pp.20-46.
- "Wissenschaftsethik." *Handlexikon zur Wissenschaftstheorie*. Ed.by H. Seiffert and G. Radnitzky. Munich: Ehrenwirth, 1989, pp. 405-411.
- "Explanation vs. Unification." *Berichte des 13. Internationalen Wittgenstein-Symposiums*. Ed. by P. Weingartner and G.Schurz. Vienna: Hoelder-Pichler-Tempsky, 1989, pp.156-59.
- "Stereotypes, Statistics, and Schemata." *Freedom and Rationality*. Ed. by F. D'Agostino and I.C. Jarvie. Dordrecht: Kluwer, 1989, pp.111-24.
- "Constructing Concepts of Sexuality: A Philosophical Commentary." *Homosexuality/Heterosexuality: Concepts of Sexual Orientation*. Ed. by D. P. McWhirter, S.A. Sanders, and J. M. Reinisch. Oxford: Oxford Univ. Press, 1990, pp.387-97.
- "Comments," (On Carroll's "The Politics of 'Originality'"). *J.of Women's History* 2 (1990), pp.164-5.
- "Explanation and Its Problems." *Brit. J. Phil. Sci.* 42 (1991), pp.85-98.
- "The Function of Credit in Hull's Evolutionary Model of Science," A. Fine, et al., eds., *PSA, 1990*, Vol.2, Philosophy of Science Association 1991, pp.237-44.
- "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.
- "Are Feminists Alienating Women From the Sciences?" *The Chronicle of Higher Education*, Sept. 15, 1994, p.A80.
- "Towards a Popperian Sociology of Science: The Problem of Credit," I.C. Jarvie and N. Laor (eds.), *Critical Rationalism, Metaphysics and Science: Essays for Joseph Agassi*, Vol. I, Dordrecht: Kluwer,1995, pp.193-210.
- "Lakatos and the Methodology of Scientific Research Programmes." Herbert Stachowiak, ed., *Pragmatik: Handbuch pragmatischen Denkens* Vol. 5. Hamburg: Meiner Verlag, 1995, pp.103-122.
- "How Feminism Is Now Alienating Women from Science." *Skeptical Inquirer* 19 (Mar/Apr, 1995), pp.42-43.
- "Wrestling with the Social Constructor." *Flight from Science and Reason*. Edited by Paul R. Gross, Norman Levitt, and Martin W. Lewis, *Annals of the New York Academy of Sciences* Vol. 775. New

- York: New York Academy of Sciences, 1996, pp. 266-73.
- "Feminist Epistemology: Stalking an Un-dead Horse." *The Flight from Science and Reason*. Edited by Paul R. Gross, Norman Levitt, and Martin W. Lewis, Annals of the New York Academy of Sciences, Vol.775. New York: New York Academy of Sciences, 1996, pp. 413-19.
- "The Importance of Disinterestedness in Feminist Theory and Pedagogy", (with Peg Brand and Karen Hanson). *APA Newsletter on Feminism and Philosophy* 95:2 (Spring 1996), 45-48.
- "Toward an Integration of Content and Method in the Science Curriculum," *Science and Education* 5 (1996), 391-402.  
[The above paper was originally published in 1969 but was reprinted as part of the journal's annual Golden Oldies series.]
- "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 Greenburger, et al. Dordrecht: Kluwer Academic Publishers (1999), 279-301.

Essay Review of *Belief and Resistance: Dynamics of Contemporary Intellectual Controversy*, by Barbara Herrnstein Smith, *Brit. J. Phil. Sci.* 50/4 (1999), 601-606. Phil.

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

“‘New Age’ Philosophies of Science: Constructivism, Feminism and Postmodernism,” *Brit. J. Phil. Sci.* (2000).

“Feminist Values and the Value of Science” in Cassandra L. Pinnick, Noretta Koertge, and Robert F. Almeder (eds.), *Scrutinizing Feminist Epistemology: An Examination of Gender in Science*. Rutgers University Press, 2003.

“Gender and the Genealogy of Scientific Discoveries” in Cassandra L. Pinnick, Noretta Koertge, and Robert F. Almeder (eds.), *Scrutinizing Feminist Epistemology: An Examination of Gender in Science*. Rutgers University Press, 2003.

“How Might We Put Gender Politics into Science?” *Philosophy of Science* 71 (2004), 868-879.

“What Science Can Offer Contemporary Democracy” in Noretta Koertge (ed.), *Scientific Values and Civic Virtues* (edited). Oxford University Press, 2005.

“A Bouquet of Scientific Values” in Noretta Koertge (ed.), *Scientific Values and Civic Virtues* (edited). Oxford University Press, 2005.

“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.
- "Is Feminism alienating women and science?" reprinted from "Do Feminists Alienate Women from the Sciences?" in *Laurier News* (Wilfrid Laurier University, Waterloo, Ontario), Nov. 1, 1994, p.8.
- "How Feminism Is Now Alienating Women From Science, *Encounters with the Paranormal: Science, Knowledge, and Belief*. Edited by Kendrick Fraier. Amherst, N.Y.: Prometheus Books, 1998, 85-87.
- "Are Feminists Alienating Women From the Sciences?" *The Broadview Reader*: Edited by Herbert Rosengarten and Jane Flick. Peterborough, Ontario: Broadview Press, 1998, 492-7.

“Wrestling with the Social Constructor,” *Pique* (June, 1998), 11.  
“Postmodernisms and the Problem of Scientific Literacy (abridged),” in  
*Darwin: A Norton Critical Edition*, 3rd ed. Edited by Philip Appleman.  
New York: Norton, 2001, pp. 308-314.  
Chinese translation of *A House Built on Sand: Exposing Postmodernist Myths  
about Science* (edited). First printing 2003. Second printing 2006.

## **Textbooks**

*The Nature of Scientific Inquiry*. Independent Study Program, Indiana  
University, 1982.  
*La Naturaleza de la Investigacion Cientifica*. Barcelona: Grup de Filosofia  
de Santa Coloma de Gramenot, 1988.  
*Curs de Filosofia de la Ciencia* (trans. by J. Beltran, et al.) Barcelona:  
Ediciones de la Magrana, 1990. (263 pages) (Catalan translation of  
my textbook.)

## **Miscellaneous Published**

Letter on Kaufmann and "Decidophobia." *Psychology Today*, (July, 1975) 7.  
Letter on the decision of Leeds University not to award Schockley an  
honorary degree. *Times Higher Educational Supplement*, (June 1,  
1973).  
Letter on Race-IQ research. *Psychology Today*, (March, 1974).  
Letter to the Editor, *The Times* (London), July 28, 1977.  
Novel: *Who Was That Masked Woman?*, St. Martin's Press, 1981.  
Novel: *Valley of the Amazons*, St. Martin's Press, 1984.