

VITAE

SAL RESTIVO

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EDUCATION

Michigan State University Ph.D. (Distinction), Sociology, 1971
Michigan State University M.A., Sociology, 1966
City College of New York B.A. (Honors), Sociology & Anthropology, 1965
City College of New York Electrical Engineering, 1958-1962
Brooklyn Technical High School Honors Diploma, Electrical Engineering, 1958

EMPLOYMENT

Professor of Sociology and Science Studies, Department of Science and Technology Studies, RPI, 1983-; and Founding Director of Graduate Programs in STS, 1988-1990; joint appointment as Professor of Information Technology, Information Technology Program, 2000-.
Assistant to Associate Professor, Department of Anthropology and Sociology, and Center for the Study of the Human Dimensions of Science and Technology, RPI, 1974-1982.
Assistant Professor and Director of the Graduate Program in Sociology, Department of Sociology, University of Hartford, 1972-1974.
Instructor to Assistant Professor, Department of Sociology and Anthropology, Wellesley College, 1970-1972.
Instructor, Department of Sociology, Michigan State, 1967-1970.

TEACHING AREAS

Rensselaer: Introductory Sociology; Sociology of Religion; Robots and Society; Sex and Culture; Mind, Brain, and Society; Social Theory (Graduate Seminar); The Social Relations of Science (Graduate Seminar).
Harvey Mudd College (2002-04): Robots and Society; Mathematics and Society; Introductory Social Science; Mind, Brain, and Society; Information and Society.

AREAS OF SPECIALIZATION

Comparative History, Sociology, and Anthropology of Knowledge, Science and Mathematics; Sociology of Information; Sociology and Ethnography of Mind and Brain; Social Robotics; Sociology of Religion; Intimate Relationships; Sociological Theory; Ethnographic Methods; Ethnography of close-up magic.

VISITING, HONORARY, AND SPECIAL APPOINTMENTS

Special Lecture Professor, Research Center for Philosophy of Science and Technology, Northeastern University, Shenyang, China 2007-

Hixon-Riggs Visiting Professor of Science, Technology, and Society, Harvey Mudd College, Claremont CA 2002-04.

Honorary Senior Research Fellow, University of Birmingham, School of Education (England), 1998-99.

Special Professor of Mathematics Education, School of Education, Nottingham University (England), 1998-2007.

Nordisk Forskerutdanningsakademi Professor, Roskilde University (Denmark) and University of Gothenburg (Sweden), Spring/Summer 1995.

Belgian National Research Foundation Professor, Free University of Brussels (Belgium), Winter/Spring 1995.

Visiting Professor, School of Education/School of Mathematics and Statistics, University of Birmingham (England), November 1994.

Visiting NEH Fellow, Institute for the History and Philosophy of Science and Technology, Victoria College, University of Toronto, 1985-1986.

Visiting Instructor (Summer 1971), and Visiting Assistant Professor (Summer 1972), Department of Sociology, Michigan State.

AWARDS, GRANTS, FELLOWSHIPS

Fellowship in Cross-Cultural Methods, Research Institute for the Study of Man, 1964

NDEA Fellowship in Comparative Social Structures, Michigan State, 1965-1968

National Science Foundation Fellowship, Seminar in Comparative Sociology, Indiana University, Summer 1966

Phi Kappa Phi, 1967

National Science Foundation Dissertation Grant, Michigan State, 1968-1970

National Science Foundation Fellowship, Michigan State, 1968-1970

Excellence-in-Teaching Citation, Michigan State, 1969

U.S. Office of Education Grant, 1975-1976

National Endowment for the Humanities Fellowship, 1985-1986

National Endowment for the Humanities Summer Grant, 1987

National Science Foundation Research Grant (co-PI), 1987-1989

U.S. Office of Education Grant (co-PI), 1991-1992

National Science Foundation Grant (with J. Croissant), 1993-1994

Nordisk Forskerutdanningsakademi Professorship, Spring 1995

Belgian National Research Foundation Professorship, Winter, 1995.

National Science Foundation Grant (with W. Bauchspies), 1997

Brooklyn Technical High School Alumni Hall of Fame, Inaugural Inductee, April 1998.

Center for Theology and the Natural Sciences/John Templeton Foundation Science & Religion Course Prize, 1999.

Jerome Fischbach Travel Grant Award for educational contributions, RPI, 2000.

Curriculum Innovation Grant, RPI, 2001.

CURRENT RESEARCH

Sociology of brain, mind, and thinking; social AI and social robotics; social theory of gods and religions; sociology of science and mathematics; ethnography of magic.

PUBLICATIONS

BOOKS

Comparative Studies in Science and Society (C.E. Merrill, Columbus, 1974). Co-edited with C.K. Vanderpool.

The Social Relations of Physics, Mysticism, and Mathematics (D. Reidel, Dordrecht, 1983; Pallas paperback, 1985).

The Sociological Worldview (B. Blackwell, Oxford, 1991); Swedish edition published by Bokforlaget Korpen, Goteborg, Sweden, 1995.

Mathematics in Society and History (Kluwer Academic Publishers, Dordrecht, 1992). Nominated for the Morris D. Forkosch Book Award of the Journal of the History of Ideas.

Math Worlds: Philosophical and Social Studies of Mathematics and Mathematics Education (SUNY Press, Albany, 1993). Co-edited with J.P. Van Bendegem and Roland Fischer.

Science, Society, and Values: Toward a Sociology of Objectivity (Lehigh University Press, Bethlehem PA, 1994)

Degrees of Compromise: Industrial Interests and Academic Values (SUNY Press, Albany, 2001). Co-edited with Jennifer Croissant.

Science, Technology, and Society: An Encyclopedia (Oxford University Press, 2005). Editor-in-Chief.

Science, Technology, and Society: A Sociological Approach (Wiley-Blackwell Publishers, 2005). With W. Bauchspies and J. Croissant.

Battleground: Science and Technology, an encyclopedia in 2 volumes (Greenwod Press, 2008). Co-edited with Peter Denton.

Bring Me The Brain of Nikola Tesla, a novel (iUniverse, Inc., New York, 2007).

Red, Black, and Objective: Science, Sociology, and Anarchism (Ashgate Publishers, 2011).

In progress

The Social Life of the Brain, draft ms.

Asphalt Children, with Monica Mesquita and Ubiratan D'Ambrosio (under review).

Gog and Magog: Religion and God for the 21st Century Mind

Capitalism: The Economy That Never Was and Never Could Be

ARTICLES

"Sociology and History: Notes on Rapprochement," The Kansas Journal of Sociology, Vol. 6, No. 3 (Fall and Winter 1970-1971), pp. 132-142.

"Visiting Foreign Scientists at American Universities: A Study in the Third-Culture of Science," Studies of Third-Cultures, No. 8 (Institute for International Studies in Education, Michigan State, E. Lansing, MI, 1973).

"Science: Social Activity and Social Process," pp. 1-24 in Restivo and Vanderpool (eds.),

1974. With C.K. Vanderpool.

"The Third-Culture of Science," pp. 461-472 in Restivo and Vanderpool (eds.), 1974. With C.K. Vanderpool.

"Ecological Factors in the Emergence of Modern Science," pp. 123-142 in Restivo and Vanderpool (eds.), 1974. With H. Karp.

"The Ideology of Basic Science," pp. 334-351 in Restivo and Vanderpool (eds.), 1974.

"Towards a Sociology of Objectivity," *Sociological Analysis and Theory*, Vol. 5, No. 2 (June 1975), pp. 155-183.

"Problems and Prospects in the Needham Paradigm for Social Studies of Chinese and Modern Science," *Proceedings of the First International Conference on Social Studies of Science* (Cornell University, Ithaca, NY, 1976).

"An Evolutionary Sociology of Love," *International Journal of Sociology of the Family*, Vol. 7 (July-December 1977), pp. 233-245.

"A Humanistic Perspective on Science and Society," *Humanity and Society*, Vol. 2, No. 4 (November 1978), pp. 211-236. With M. Zenzen. Reprinted in W.K. Fishman and C.G. Benello (eds.), *Readings in Humanist Sociology* (General Hall, New York, 1985), pp. 82-116; reprinted in *Pioneers of Public Sociology: Thirty Years of Humanity and Society*, co-edited by Corey Dolgon and Mary Chayko (Sloan Publishing, Cornwall-on-Hudson, NY, 2010).

"Elements of a General Theory in Macrosociology," *International Journal of Contemporary Sociology*, Vol. 15, Nos. 3/4 (July and October 1978), pp. 249-272.

"Parallels and Paradoxes in Modern Physics and Eastern Mysticism: I - A Critical Reconnaissance," *Social Studies of Science*, Vol. 8 (1978), pp. 143-181.

"Joseph Needham and the Comparative Sociology of Chinese and Modern Science: A Critical Perspective," pp. 25-51 in R.A. Jones and H. Kuklick (eds.), *Research in the Sociology of Knowledge, Sciences, and Art*, Vol. II (JAI Press, Greenwich, 1979); Chinese translation in *Selected Translations in Science of Science 1*, pp. 14-24 (Academia Sinica, Beijing, 1989). Chinese translation in *Chinese Science & Scientific Revolution*, papers honoring Joseph Needham, edited at the Institute for History of Natural Science, Beijing, PRC, 2002, pp. 179-213.

"New Directions in the Sociology of Knowledge and Science," *Peace Research*, Vol. 2, No. 3 (1979), pp. 97-103.

"Multiple Realities, Scientific Objectivity, and the Sociology of Knowledge," *Reflections*, Vol. 1, No. 1 (Summer 1980), pp. 61-76 (nominated for the American Sociological Association's Theory Prize).

"The Dialectics of Physics, Knowledge, and Life," a review essay on D. Bohm's *Fragmentation and Wholeness*, *Newsletter of the International Society for the Sociology of Knowledge*, Vol. 6, No. 1 (July 1980), pp. 7-10.

"Notes and Queries on Science, Technology, and Human Values," *Science, Technology and Human Values*, Vol. 6, No. 34 (Winter 1981), pp. 20-24.

"Some Perspectives in Contemporary Sociology of Science," *Science, Technology and Human Values*, Vol. 6, No. 35 (Spring 1981), pp. 22-30.

"Marxism and Mathematics: The Struggle with Mannheim's Ghost," a review essay on A. Sohn-Rethel's *Intellectual and Manual Labor*, pp. 33-35 in *Newsletter of the International Society for the Sociology of Knowledge*, Vol. 7, Nos. 1 and 2 (May 1981).

"Mathematics and the Limits of the Sociology of Knowledge," *Social Science Information*, Vol. 20, Nos. 4 and 5 (1981), pp. 679-701.

"Holonomy in Physics and Society," *Man-Environment Systems*, vol. II, Nos. 5/6 (1981), pp. 177-183. With M. Zenzen.

"Parallels and Paradoxes in Modern Physics and Eastern Mysticism: II - A Sociological Perspective," *Social Studies of Science*, Vol. 12 (1982), pp. 37-71.

"The Mysterious Morphology of Immiscible Liquids: A Study of Scientific Practice," *Social Science Information*, Vol. 21, No. 3 (1982), pp. 447-473, With M. Zenzen.

"Mathematics and Civilization," *The Centennial Review*, Vol. XXVI, No. 3 (Summer 1982), pp. 277-301. With R. Collins. Reprinted in *Philosophy of Mathematics Education Journal*, no. 25, 2010.

"Mathematics and the Sociology of Knowledge," *Knowledge*, Vol. 4, No. 1 (September 1982), pp. 127-144.

"Remarks on the Structure of Ancient Wisdom," *Journal of Social and Biological Structures*, (1983), Vol. 6, pp. 113-115.

"The Mooting of Science Studies: Research Programs and Science Policy," pp. 53-83, in M. Mulkay and K. Knorr-Cetina (eds.), *Science Observed*, (Sage, London, 1983). With D. Chubin.

"The Myth of the Kuhnian Revolution in the Sociology of Science," pp. 293-305 in R. Collins (ed.), *Sociological Theory 1983*, (Jossey-Bass, New York, 1983).

"Robber Barons and Politicians in Mathematics: A Conflict Model of Science," *The Canadian Journal of Sociology*, Vol. 8, No. 2 (Spring 1983), pp. 199-227. With R. Collins. Reprinted in *Philosophy of Mathematics Education Journal*, no. 26, 2011.

"Development, Diversity and Conflict in the Sociology of Science," *Sociological Quarterly*, Vol. 24, No. 2 (1983), pp. 185-200. With R. Collins.

"Representation and the Sociology of Mathematical Knowledge," in B. Schiele and C. Belisle (eds.), *Les Savoirs dans les Pratiques Quotidiennes* (CNRS, Paris, 1984).

"Science, Secrecy, and Democracy," *Science, Technology, and Human Values*, Vol. 11, Issue 1 (Winter 1986), pp. 79-84.

"Critical Sociology of Science and Scientific Validity," *Knowledge* (special issue on National Policies for Optimizing Validity in Applied Social Research), Vol. 8, No. 3 (March 1987), pp. 486-508. With Julia Loughlin.

"Science Studies - What is to be Done," *Science, Technology and Human Values*, Vol. 12, Issue 2 (Spring 1987), pp. 13-18; Chinese translation in *Selected Translations in Science of Science 1*, pp. 1-5 (Academia Sinica, Beijing, 1989).

"Sociological Talk About Art and Science: A Review Essay," *Journal of the History of the Behavioral Sciences*, Volume 23 (October 1987), pp. 368-376.

"Modern Science as a Social Problem," *Social Problems*, Volume 35, No. 3 (June 1988), pp. 206-225.

"The Social Construction of Mathematics," *International Reviews on Mathematical Education*, Volume 20, No. 1 (February 1988), pp. 15-19.

"Critical Sociology of Science," Chapter 5 in D.E. Chubin and E.W. Chu (eds.), *Science off the Pedestal* (Wadsworth, Belmont CA, 1989).

"The Social Life of Mathematics", *Philosophica*, Volume 42, No. 2 (1988), pp. 5-20. Reprinted in A.J. Bishop (ed.), *Mathematics Education*, 4 vols. (Routledge: London, 2010, v.I: 109-131).

"In the Clutches of Daedalus: Science, Society, and Progress," pp. 145-176 in S.L. Goldman (ed.), *Science, Technology, and Social Progress* (Lehigh University Press, Bethlehem, 1989).

"The Social Roots of Pure Mathematics", pp. 120-143 in T. Gieryn and S. Cozzens (eds.), *Theories of Science in Society* (Indiana University Press, Bloomington, 1990). Reprinted in

Portuguese as "As raizes sociais da matematica pura," *Cadernos de Educacao e Matematica*, Special Issue on Sociologia da matematica, Number 3 (October, 1998), pp. 99-121.

"Science, Sociology of Science, and the Anarchist Tradition," pp. 21-40 in Thomas Brante, Steve Fuller, and William Lynch (eds.), *Controversial Science* (SUNY Press, Albany, 1993).

"The Theory Landscape in Science Studies: Sociological Traditions," commissioned chapter, pp. 95-110 in S. Jasanoff, G. Markle, Jim Petersen, and T. Pinch (eds.), *Handbook of Science and Technology Studies* (Sage Publications, for the Society for Social Studies of Science, Beverly Hills, 1994).

"Zen and the Art of Science Studies," essay review, *Science, Technology & Human Values* 17, 3 (Summer 1992): 402-405.

"Reflections on the Sociology of Knowledge and the End of Epistemology," *Revue Roumaine de Philosophie* 36, published by the Romanian Academy of Sciences, (Jan-June 1992): 23-43; Romanian translation in Angela Botez (ed.), *Realism Si Relativism in Filosofia Stintei Contemporane*, Editura DAR, Bucharest, 1993.

Reprinted (English) *VEST: Tidskrift for Vetenskapsstudier*, 8, 2 (1995), 7-28.

"The Social Life of Mathematics," pp. 209-220 in P. Ernest (ed.), *Mathematics, Education, and Philosophy: An International Perspective*, Falmer Press, London, 1994.

"Science, Sociology of Science, and the Anarchist Tradition," *The Raven* 7, 2 (Summer 1994), 183-196.

"Science, Social Problems, and Progressive Thought: Essays on the Tyranny of Science" (including "Technoscience or Tyrannoscience Rex," a review of *Jurassic Park*), pp. 39-87 in S.L. Star (ed.), *Ecologies of Science*, SUNY Press, Albany, 1995. With Jennifer Croissant.

"How to Criticize Science and Maintain Your Sanity," *Science as Culture*, 6, Part 3, 28 (Spring 1996): 396-413. With Wenda K. Bauchspies

"Science, Social Theory, and Science Criticism," *Communication & Cognition* (special issue on *Popularization of Science: The Democratization of Knowledge in Perspective*), 29, 2 (1996): 249-272. With Wenda Bauchspies.

"Race, Class, and Gender in Science Studies," *Festschrift to Professor Aant Elzinga*, edited by Jan Barnberg and Margarita Halberg, *Institutionen for Vetenskapsteori* (University of Gothenberg, 1997). With Julia Loughlin.

"In the Wake of the Winnower: Reflections on Donald T. Campbell and the Sociology of Objectivity," *Philosophica*, 60, 2 (1997/2000): 57-73.

"Mathematics, Mind, and Society," pp. 119-134 in Leone Burton (ed.), *Learning Mathematics* (London: Falmer Press, 1999).

"Mathematical Practice in History and Culture: A Review Essay," *Science as Culture*, 7, 3 (1998): 407-419.

"What is Science, Once More With Feeling: A Review Essay," *Science, Technology, and Society*, 3, 2 (1998): 384-391.

"Science, Sociology, and Anarchism," *Philosophy and Social Action*, 25, 1 (January-March, 1999): 7-15.

"4S, the FBI, and Anarchy," contribution to "STS and the Unabomber: Personal Essays," *Science, Technology, and Human Values*, 26, 1 (Winter, 2000): 87-105.

"The Invention of Science," *Cultural Dynamics*, 12, 2 (July, 2000): 57-73. With Julia Loughlin.

"Toward a Socio-Visual Theory of Information and Information Technology," *Proceedings of the IEEE International Symposium on Technology and Society* (IEEE: Rome, 2000): 169-175. With Audrey Steinhauer.

"Building Labs and Building Lives," in *Degrees of Compromise: Industrial Interests and Academic Values* (SUNY Press, Albany, 2001), co-edited by Jennifer Croissant and Sal Restivo. With Jennifer Croissant.

"The Will to Mathematics: Minds, Morals, and Numbers," in *Foundations of Science*, 11, 1 & 2, special issue on Mathematics: What Does It All Mean? Edited by Jean Paul Van Bendegem, Bart Kerkhove, and Sal Restivo, March 2006, 197-215. With Wenda Bauchspies. Portuguese translation, Bauchspies, W. & Restivo, S. (2001) - O arbítrio da matemática: mentes, moral e números. *BOLEMA*, 16, pp. 102-124.

"Bringing Up and Booting Up: Social Theory and the Emergence of Socially Intelligent Robots," Proceedings of the 2001 Systems, Man, and Cybernetics Conference, Tucson AZ, October 7-10, 2001.

"What is Science?" invited essay, contributed to *Life: The Science of Biology*, 7th ed. by W.K. Purves et al. (Sinauer/Freeman, 2003).

"From a Socially Intelligent Robot Concept to an Ad: Eliciting Audience Participation throughout the Graphic Design Process", in *Design and Emotion: The Experience of Everyday Things*, edited by Deanna McDonagh-Philp et al., (London, Taylor & Francis; 2004). With Audrey Bennett.

"Mechanical Mathematicians: The End of Proof as We Know It," review essay, *The Information Society*, 20, 1 (January, 2004), 67-8.

"Theories of Mind, Social Science, And Mathematical Practice," J. P. Van Bendegem and Bart Van Kerkhove, editors, *Perspectives on Mathematical Practices* (Kluwer, Dordrecht, 2005).

"Politics of Latour," review essay, *Organization and Environment*, 8, 1 (March, 2005), 111-115.

"Bodies of Information in the Information Age: Singing the Body Information," review essay, *Science and Public Policy*, 32, 3 (June 2005), pp. 231-246,

"Social Constructionism in Science and Technology Studies," pp. 213-229 in *Handbook of Constructionist Research*, edited by Jim Holstein and Jaber Gubrium (Guilford, 2007). With Jennifer Croissant.

"Sturm und Drang in Mathematics: Casualties, Consequences, and Contingencies in the Math Wars," *Philosophy of Mathematics Education Journal* No. 20 (June 2007), 24pp. With Deborah Sloan.

"Mathematics," encyclopedia entry, *The Language of Science*, Monza: Polimetrica. (June 4, 2007).

"Society, Social Construction, and the Sociological Imagination," invited commentary, *Constructivist Foundations* 3(2), 2008, 94-96.

Battleground Science and Technology, an encyclopedia in 2 vols., co-edited with Peter Denton (Greenwood Press, New York, 2008); with contributed entries on "Space," "Science Wars," "Memory," "Chaos Theory," "Death and Dying," "Sex and Gender," "Science and Mathematics," "Nanotechnology" (with Azita Hirs), "Science and Religion" (with Peter Denton).

"Minds, Morals, and Mathematics in the Wake of the Deaths of Plato and God: Reflections on What Social Constructionism Means, Really," pp. 37-43 in Anna Chronaki (ed.), *Mathematics, Technologies, Education: The Gender Perspective* (Volos, Greece: University of Thessaly Press, 2008/2010).

Invited commentary, "Robots, Theology, and the Sociological Cogito," *Erwägen Wissen Ethik*, 20, 2 (2009/2010), 222-223.

"Science Studies," Cultural Theory, M.K. Booker (editor), a volume in the Encyclopedia of Literary and Cultural Theory, M. Ryan (editor), Blackwell: Oxford, 2010. With Jennifer Croissant.

"Bruno Latour: The Once and Future Philosopher," The New Blackwell Companion to Major Social Theorists, edited by George Ritzer and Jeffrey Stepinsky (Boston: Blackwell, 2010).

EDITED JOURNALS, PROCEEDINGS, AND MISCELLANEOUS PUBLICATIONS

National Conference on Higher Education and the International Flow of Manpower: Implications for the Developing World (University of Minnesota, Spring 1967), Co-edited with Donald Brown.

Guest editor, New Directions in the Sociology of Science, special issue of the Newsletter of the International Society for the Sociology of Knowledge, Vol. 7, Nos. 1 and 2 (May 1981).

Contributor to The Regulatory Environment for Science, a technical memorandum, U.S. Office of Technology Assessment, Washington, D.C., 1986.

POETRY: "Storms and Soliloquies," New Voices, No. 4 (1975): 138-140.

Co-editor and contributor, Cultural Dynamics, special issue on *The Cultural Dynamics of Science*, 2000. With Wenda Bauchspies.

Advisory Board, The Cutting Edge: An Encyclopedia of Advanced Technologies, The Moschovitis Group, Inc. (Oxford University Press, 2000).

Co-editor and contributor, Foundations of Science, 11, 1 & 2, March 2006, special issue on Mathematics: What Does It All Mean? With Jean Paul Van Bendegem and Bart Kerkhove

•BOOK REVIEWS in Contemporary Sociology, Technology and Culture, Isis, American Journal of Sociology, Scientometrics, Science, Technology, and Human Values, Science as Culture and other journals.

PRESENTATIONS AND LECTURES

"Towards a Comparative Sociology of Science," paper presented at the First Midwest Universities Consortium for International Activities Summer Seminar on Comparative Sociology, Indiana University, 1966. With C.K. Vanderpool.

"The Emergence of Modern Science: An Ecological Perspective," Faculty Seminar, Department of Sociology, SUNY at Stony Brook, February 1970.

"The Sociology of Objectivity," Graduate Faculty Seminar, SUNY at Albany, November 1975.

Discussant, Conference on "Origins of Knowledge," Miami University (Ohio), October 1976.

"From an Anglican Monastery to the World Cooperative Council: In Search of a Sociology of Chinese Science with Dr. Needham," Department of Sociology Colloquium, Michigan State, November 1976.

"Problems and Prospects in the Needham Paradigm for Social Studies of Chinese and Modern Science," paper presented at the First International Conference on Social Studies of Science, Cornell University, November, 1976.

"Love, Politics, and Peace," Grindstone School for Peace Research, Education, and Action, Grindstone Island, Ontario, August 1977.

Discussant, session on "Functioning of the Scientific Community," annual meeting of the American Sociological Association, Chicago, September 1977.

Panelist, "Future Strategies in Social Studies of Science" session, North Central Sociological Association meeting, Cincinnati, May 1978.

"Physics, Mysticism, and Society: A Sociological Perspective on Distinguishing and Relating Alternate Realities," paper presented at the annual meeting of the Society for Social Studies of Science, Indiana University, November 1978.

"Science and Values: A Political Sociology Perspective," Grindstone School for Peace, Grindstone Island, Ontario, June 1979.

"Multiple Realities and Scientific Objectivity," paper presented at the annual meeting of the American Sociological Association, Boston, August 1979.

"The Mysterious Morphology of Immiscible Liquids: The Discovery and Pursuit of an Anomaly in Colloid Chemistry," paper presented at the conference on "The Social Process of Scientific Investigation," McGill University, October 1979. With M. Zenzen.

"Mathematics and Society in Marxist Perspective," paper presented at the Fourth Annual Conference on the Current State of Marxist Theory, University of Louisville, November 1979.

"Marxist Sociology of Mathematics," paper presented at the Dialectics Workshop on Natural Science, Columbia University, December 1979.

Discussant, session on "Sociology of Science and Knowledge," Southern Sociological Society meeting, Knoxville, March 1980.

"Mathematics and Civilization - A Sociological Theory," paper presented at the annual meeting of the International Society for the Comparative Study of Civilizations, Syracuse University, May 1980. With R. Collins.

"On the Epistemological Relevance of the Sociology of Science," Schweitzer Chair and Sociology Department Lecture, Maxwell School of Citizenship and Public Affairs, Syracuse University, May 1980.

"Sociologists in the Land of 'History of Mathematics': A Tale of Two Theorists," paper presented at the joint meeting of the science studies societies (4S, PSA, HSS, SHOT), Toronto, October 1980. With R. Collins.

"The Sociology of Mathematics," Department of Sociology Colloquium, McGill University, November 1980.

"Perspectives and Problems in the Comparative Sociology of Mathematics," Department of History and Sociology of Science Seminar, University of Pennsylvania, March 1981.

"Colloids, Chemists, and Contingencies," Distinguished Lecture Series in Organizational Science, Georgia Institute of Technology, April 1981.

"Comparative Sociology of Mathematics," public lecture, Humanities Development Program, Oregon State University, May 1981.

"Mathematics and World View: Oswald Spengler's Analysis of Number and Culture," paper presented at the annual meeting of the International Society for the Comparative Study of Civilizations, Indiana University, May 1981.

"Mathematics and the Limits of the Sociology of Knowledge," paper presented at the annual meeting of the American Sociological Association, Toronto, August 1981.

"Scientific Practice and Evolutionary Epistemology," International Colloquy on Epistemologically Relevant Internalist Sociology of Science, Lake Cazenovia, NY, June 1981.

Discussant, Conference on "Communication and Scientific Practice," Simon Fraser University, September 1981.

"Epistemology and Sociology of Science," Plenary Session on the ERISS conference, annual meeting of the Society for Social Studies of Science, Atlanta, November 1981.

"Problems and Perspectives in the Sociology and Social History of Mathematics," public lecture, Institute for the History and Philosophy of Science and Technology, University of Toronto, February 1982.

"The Social Roots of Mathematics," Science in Society Program Lecture, Wesleyan University, April 1983.

"Is Philosophy Without Mirrors Sociology? Richard Rorty and the End of Epistemology," Department of Philosophy lecture, University of Guelph, May 1983.

"Supporting Laboratory Life," commissioned report presented in the Colloquium on Funding Sources and the Direction of Science, National Science Foundation, Washington, D.C., September 1983.

"Representations and the Sociology of Mathematical Knowledge," paper presented at the International Round Table on "Representations," Montreal, October 1983.

"The End of Epistemology," paper presented at the annual meeting of the Society for Social Studies of Science, Blacksburg, Virginia, October 1983.

"The Anthropology of Science, Science, and Science Policy," paper presented at the annual meeting of the American Association for the Advancement of Science, New York City, May 1984.

"The Social Realities of Mathematical Knowledge," paper presented at the annual meeting of the Society for Social Studies of Science, Ghent, Belgium, November 1984. With R. Collins.

"The Ethnography of the Laboratory," Department of Sociology Colloquium Series, Syracuse University, December 1984.

"The Social and Material Foundations of Pure Mathematics," paper presented at the joint meeting of the science studies societies (4S, PSA, HSS, SHOT), Pittsburgh, October, 1986.

"In the Clutches of Daedalus: Science, Society, and Progress," lecture in the Regional Colloquium in Technology Studies series, Lehigh University, February 1987.

"Science, Sociology of Science, and the Anarchist Tradition," lecture in the May 1990 Sociology of Science workshop at the Interuniversity Centre for Postgraduate Studies, Dubrovnik, Yugoslavia.

"Toward a Sociology of Mind," lecture co-sponsored by the Sociology Faculty and the Science Studies Center, University of Bielefeld, Bielefeld, Germany (FRG), May, 1990.

"Sociology of Knowledge and the End of Epistemology," invited paper presented at the conference on Social Epistemology and the Social Theory of Knowledge, Uppsala, Sweden, August 1991.

"Distinguishing Differences in Worldview from Failures of Communication in Cross-Sociology of Science Studies: Remarks on the Selected Papers of D.T. Campbell," annual meeting of the Society for Social Studies of Science, Cambridge, MA, Nov. 1991.

"Gender, Sociological Theory, and Objectivity," Seminar on The Life Sciences: Gender Critiques and Women's Experiences sponsored by the Department of Science and Technology Studies at Cornell University, April 1992. With Jennifer Croissant.

"The Sociology of Knowledge and Mathematics Education," lecture, International Congress on Mathematics Education, section on Philosophy of Mathematics Education, Montreal, Quebec, August 1992.

"The Social Construction of Science," Luce Seminar on Gender and Science lecture, Mt. Holyoke College, December 1993.

"The Social Life of Science," Luce lecture, Mt. Holyoke College, March 1994.

"Sociology: A Copernican Social Science Revolution and its Implications for Science and Culture," invited contribution, Congress on When Science Becomes Culture, Montreal, April, 1994.

"Science, Social Theory, and Social Criticism: How to Criticize Science Without Losing Your Mind," President's lecture, Presidential Plenary, Society for Social Studies of Science, New Orleans, October 1994.

Lecture Series, University of Birmingham, Birmingham, England, November 1994.

"The Social Life of Mathematics," School of Education seminar; "Sociology of Science Meets Feminist Theory," School of Education Social Justice and Women's Studies Study Group (with Julia Loughlin); "What's 'New' about the New Sociology of Science," School of Physics; "The Very Idea of a Sociology of Mathematics," School of Mathematics and Statistics.

"Sociology of Maths," seminar at Fircroft College of Adult Education, Birmingham, England, November 10, 1994.

"The Sociology of Mind - Studying Mind Mindlessly," CRICT Program, Brunel University, Uxbridge, England, November 23, 1994.

"On the Overall Significance of the Social Dimensions of Science for the Future of Science," Closing Plenary Panelist, Conference on Science's Social Standing, University of Durham, Durham, England, December 2-4, 1994.

Lecture Series, University of Exeter, Exeter, England, December 1994: "The New Sociology of Science and Its Implications for Learning and Education," seminar, School of Education; "Towards a Sociology of Mind," lecture, Department of Sociology; "Sociology of Science and Mathematics Education," lecture, School of Education; "Sociology of Mathematics and Research on the Semiotics of Mathematical Texts," Research seminar, School of Education.

Invited guest commentator, Research into Social Perspectives on Mathematics Education Study Group, King's College, London, December 15, 1994.

Lecture series, Vrije Universiteit Brussel, Belgium, February-March 1995.

"What's New about the New Sociology of Science?" lecture, School of Human and Moral Sciences, Interdisciplinary Research Seminar; "The Sociology of Mind," Sociology Faculty Research Seminar.

Lecture series, Middlesex University, London, England, March 1995.

"The Sociology of Mind," Cognitive Science Group, and "The Very Idea of a Sociology of Mathematics," School of Mathematics and Statistics.

"The Sociology of Mathematics and Mathematics Education," Stedelijke Industriële Hogeschool Mechelen, seminar for secondary school mathematics teachers, Mechelen, Belgium, March 1995.

"What's 'New' About the New Sociology of Science," Interdisciplinary Research Seminar, University of Oslo, Oslo, Norway, April 1995.

"Mathematics, Mind, and Society," Department of Linguistics Seminar, University of Goteborg, Goteborg, Sweden, April 1995.

"The New Sociology of Science and Science Policy," seminar at Roskilde University, Department of Economics and Planning, Roskilde, Denmark, May 1995.

"The Sociology of Mind," Department of Science and Technology Dynamics, University of Amsterdam, Amsterdam, The Netherlands, May 1995.

"The Sociology of Rationality," comments on Murray Code, "Mathematics, Intuition and Natural Knowledge", Department of Theory of Science, University of Goteborg, May 1995.

"Theoretical Sociology of Mind," plenary lecture, Workshop on Action, Language and Structure: Patterns of Inquiry in Science and Technology Studies, Center for Technology and Society, University of Trondheim, and Norwegian Research Council, Trondheim, Norway, May 1995.

"Sociology Meets AI: A Memo on the Sociology of Mind," plenary lecture, meeting of the Swedish Artificial Intelligence Society, University of Goteborg, Goteborg, Sweden, June 1995

"The Rejection of Transcendence, Immanence, and Psychologism," President's lecture, Presidential Plenary, Society for Social Studies of Science, University of Virginia, October 1995.

"Industrious Learning: An Ethnographic Study of Values and Education," presented at the conference on The Triple Helix, University-Industry-Government Relations: A Laboratory for Knowledge Based Economic Development, Amsterdam, The Netherlands, January, 1996. With Jennifer Croissant.

"The Erotics of Science and Everyday Life," special Valentine's Day lecture, STS Colloquium Series, Rensselaer Polytechnic Institute, February, 1996. With Julia Loughlin.

"In the Wake of the Winnower: Reflections on Donald T. Campbell and the Sociology of Objectivity," Donald T. Campbell Memorial Plenary lecture, annual meeting of the Society for Social Studies of Science, University of Bielefeld, October, 1996.

"The Science Wars: A Dialogue on Postmodernism and the Sokal Hoax," Seminar, Rensselaer Polytechnic Institute, Troy, NY, November 1996. With Langdon Winner.

"The Science Wars," Lecture, Department of Sociology, Syracuse University, Syracuse NY, April 1997.

"Sociology, Science, and the Rejection of Transcendence," Lecture and workshop, Sarah Lawrence College, Bronxville NY, December 1997.

"Mathematics, Mind, and Society: An Anarchist Theory of Inquiry and Education," Plenary Lecture, The First Mathematics Education and Society Conference, Nottingham University, Centre for the Study of Mathematics Education, England, September 6-11, 1998.

"Does Mathematics Come From God, Coffee, Brains, Mathematicians, or Society? The Case for the Social Construction of Mathematics," morning session, Institute for Mathematical Sciences, Copenhagen University, Copenhagen, Denmark, May 1999.

"1729 and All That...Thoughts on Genius, the Sociology of Mathematics, and Mathematics Education," afternoon session, Institute for Mathematical Sciences, Copenhagen University, Copenhagen, Denmark, May 1999.

"Putting the "Social" into the Social Construction of Mathematics," Research Seminar on The Nature of Mathematics and Mathematics Education, Institute of Mathematics, Physics, and Informatics, the Royal Danish School of Educational Studies, Copenhagen, Denmark; and Dansk Center for Naturvidenskabsdidaktik, Aalborg University, Aalborg, Denmark, May 1999.

"What Does Mathematics Represent? A Sociological Perspective," Economic and Social Research Council Seminar on The Public Understanding of Science, University of Birmingham, England, May 21/22, 1999.

"The Will to Mathematics: Math, Minds, and Morals," Symposium Presentation, Mathematics, Education, and Society conference, Faro, Portugal, March 2000. With Wenda Bauchspies.

"Toward a Socio-Visual Theory of Information and Information Technology," paper presented at the IEEE International Symposium on Technology and Society, Department of Electronic Engineering, La Sapienza University, Rome, Italy, September 2000. With Audrey Steinhauer(aka Audrey Bennett).

"An Introduction to Social Robotics," Science, Technology, and Society Program, The Pennsylvania State University, State College, PA, November 15, 2000.

Lecture Series and Short Course, University of Sao Paulo, Sao Paulo and Rio Claro Campuses, March 2001. With Wenda Bauchspies.

Short Course, Program in Post-Graduate Mathematics Education, "Foundations of the Sociology of Mathematics," with special topics foci on social theory and ethnographic methods, March 12-14 & 19-22, 2001. With Wenda Bauchspies.

"What is the Sociology of Mathematics, Really?" lecture in the Program in Post-Graduate Mathematics Education, Department of Mathematics, Universidade Estadual Paulista, Rio Claro Campus, March 13, 2001.

"Remarks on the Sociology of Mathematics," graduate and faculty seminar, University of Sao Paulo in Sao Paulo, Brazil, March 15, 2001.

"Minds, Machines, and Mathematics," public lecture in the Faculty of Education at the University of Sao Paulo in Sao Paulo, Brazil, March 16, 2001. With Wenda Bauchspies.

Lecture series (sociology of mind, sociology of mathematics and science), plus short courses on "The Craft of Social Theory" and "Ethnography for Science Educators," at the University of Sao Paulo campuses in Rio Carlo and Sao Paulo, Brazil, March, 2001. With Wenda Bauchspies.

"Bringing Up and Booting Up: Social Theory and the Emergence of Socially Intelligent Robots," IEEE SCM conference, Tucson AZ, October 7-10, 2001.

"Social Theory and Social Robotics," Society for Social Studies of Science annual meeting, Cambridge, MA, November 1-4, 2001.

"The Local Production of Social Intelligence: Social Theory and the Emergence of Socially Intelligent Robots," Plenary Lecture, Symposium on Localized Science in Global Context", Collegium Helveticum of the Swiss Federal Institute of Technology, Zurich, Switzerland, January 21-22, 2002.

Symposium on "The Sociology and Philosophy of Mathematics Education Revisited," Mathematics, Education, and Society conference, Elsinore, Denmark, April 2-7, 2002. With Wenda Bauchspies and Jean Paul Van Bendegem.

"Science, the Strong Programme, and Social Theory," lecture and seminar, Department of Mathematics Education, New University of Lisbon, Lisbon, Portugal, May 20, 2002.

"Social Theory and Science Education," lecture and seminar, Science Education Department, New University of Lisbon, Lisbon, Portugal, May 21, 2002.

"Science, Social Theory, and Education," Plenary lecture, conference on "Student Centered Teaching in Science and Mathematics at University Level – A Challenge to Students and Teachers," organized by the Centre for Educational Development in University Science, Elsinore, Denmark, May 23-24, 2002. With Wenda Bauchspies.

"From a Socially Intelligent Robot to an Email Survey: Facilitating Audience Interaction in the Creative Design Process," 3rd *International Conference on Design and Emotion*, Loughborough, UK, July 1-3, 2002. With Audrey Bennett.

"Romancing the Robots: Social Robots and Society," Workshop on *Robots as Partners: An Exploration of Social Robots*, Lausanne, Switzerland, September 30, 2002.

"Personal Reflections on Science Studies," lecture, Pomona College, October 7, 2002.

"Romancing the Robots: Can Robots Learn to Dance, and Why it Matters," STS lecture, The Claremont Colleges, October 29, 2002.

"Theory of Mind, Social Science, and Mathematical Practice," Keynote address, conference on *Perspectives on Mathematical Practices*, October 24-26, Brussels, Belgium, 2002.

"Eugene Sandow and Nietzsche's Shadow: The Nature and Origins of Modern Competitive Bodybuilding," Lecture, Harvey Mudd College, February 12, Claremont, CA, 2003.

Plenary lecture, "Minds, Machines, and Bodies: The Social Turn," Luce Faculty Seminar on Mind-Computer Interactions, The Claremont Colleges, March 7, Claremont CA, 2003.

"Robots 'r' Us: The Sociology of Social Robots," Keynote Lecture, Hixon/Riggs workshop on Social Studies of Social Robots, Harvey Mudd College, March 27-30, Claremont CA, 2003.

"Knowledge Rituals: The Social Theory of Mind, Computing, and Intelligence," invited presentation, annual meeting of the American Sociological Association, Atlanta, GA 2003. With Colin Beech.

"Einstein's Brain, Napoleon's Penis, and Galileo's Finger: Toward a Sociology of the Brain," lecture in the Science Studies Program colloquium series at the University of California at San Diego, November 24, 2003.

"Out of the Laboratory into the Science Wars: Part I - Understanding Science as a Social Construction" University of Massachusetts at Amherst, Women's Studies Program, Amherst, MA, March 11, 2004.

"Of Brains, Robots, and Minds: Making Sense of the "Society" in Science, Technology, and Society," College of Liberal Arts at Rochester Institute of Technology, Rochester, New York, April 1, 2004.

"Out of the Laboratory into the Science Wars: Part II: From Latour to Anti-Latour to Latour," University of Massachusetts at Amherst, Women's Studies Program, Amherst MA, April 6, 2004.

"Maths, Minds, and Machines: What Does Einstein's Brain Mean, and Did Shakespaere Have One?" The Honors Academy at Brooklyn College CUNY, Brooklyn NY, May 10th, 2004.

Invited participant and plenary panellist, NSF Conference on Culturally Responsive Mathematics Curricula, National Science Foundation, Arlington VA, November, 6-9, 2004.

"The Travels of Einstein's Brain, and Did Shakespeare Have One: Reading Mind, Body, and Brain Sociologically," lecture at the Free University of Brussels, Brussels, Belgium, April 11, 2005.

"Toward a Sociology of the Brain and Some Remarks on its Applications," lecture at the Learning Lab Denmark, University of Copenhagen, Copenhagen, Denmark, April 18, 2005. Invited: "Where Does Mathematics Come From? Reflections on God, Einstein's Brain, and Social Construction," seminar presentation, Department of Mathematics, Cornell University, Ithaca NY, May 2, 2005.

Invited: "The Brain as a Boundary Object: Theory and Values at the Intersection of the Social and Neurological Sciences," Open Forum lecture, California State Polytechnic Institute, Pomona CA, May 5, 2005.

Invited: "Now we know you're Crazy" (H.M. Collins): Making Encyclopedias, or Running Around in Circles," Encyclopedic Knowledge: Critical Comparisons of Two Neo-Enlightenment Projects, Society for Social Studies of Science annual meeting, Pasadena CA, Oct. 17-19, 2005.

Invited: "Romancing the Robots: Social Robots and Society; Or: Can Robots Learn to Dance(?), and why it Matters," Presenter and Panelist (with panel members David Hanson, founder of Hanson Robotics, and graphic comic writer Harvey Pekar), Automated Biography, Robot Clothes, at the Eyebeam Open Laboratory, 540 W. 21st, New York City, November 19, 2005. WGBH public radio interview, Open Source, hosted by Chris Lydon, "Reality Bytes," (with Sherry Turkle, MIT, and Geoff Nunberg, Stanford), February 28, Boston, 2006..

Panelist, "Robots in our own eyes," Schenectady Museum and Suits-Bueche Planetarium, Schenectady, New York, April 22, 2006.

“Against Essentialism: The End of Platonism in Mathematics,” Second International Congress of Ethnomathematics, Auckland, New Zealand, February 2006. With Monica Mesquita.

“The Elusive Sociological Imagination and the Pursuit of the Hard Case,” 1976 and all That...”

Plenary panel “Fireside Chat”, 30th Anniversary Meeting of the Society for Social Studies of Science, Vancouver, BC, November 2-4, 2006.

Keynote lecture, “Romancing Machines and Dancing with Robots: Sociologists and the RoboSapiens,” Association for the Advancement of Artificial Intelligence Spring Symposium, 2007, Multidisciplinary Collaboration for Socially Assistive Robotics, Stanford University, Palo Alto, California, March 26-28, 2007

Special Lecture, “The Death of God Revisited: A Manifesto in Defiance of Platonism, Religionism, und der Reine Vernunft,” Conference on Perspectives on Mathematical Practices, Educational Foundation, Brussels, March 28, 2007.

Invited lecture, “The Social Construction of Science: What it all Means,” Graduate Program in Science and Technology Studies, Virginia Polytechnic Institute and State University, Northern Virginia Center, Alexandria, VA, April 23, 2007.

Invited lectures, 2007 China STS Conference, Northeastern University, Shenyang, China, August 24-29th: Lecture I: “Science Studies, The Elusive Sociological Imagination, and the ‘Hard Case;’” Lecture II “Legacies: Needham, Marx, Nietzsche, and Zhangzi - and Science And Society ‘East’ And ‘West.’”

Keynoters Workshop, “Mathematics and Technology in the Body of Education: The Gender Perspective”; and Keynote address: “Minds, Morals, and Mathematics: The Death of God, the End of Platonism, and the Meaning of Social Constructionism,” International Conference on Mathematics and Technology in the Body of Education: The Gender Perspective,” University of Thessaly, Volos, Greece, December 16-17 & 18-19, 2007.

Invited panelist, founding members, Session 19, Learning from Then to Impact Now: Reflections on the Association of Humanist Sociology, Boston, MA, November 10, 2008.

Invited Lecture, “Ask Einstein’s Brain; and Did Shakespeare Have One? Reflections on the Social Life of the Brain,” 27th November, James Martin Institute for Science and Civilization, Said Business School, Oxford University, Oxford UK, 2008.

Seminar on “Mathematics, Society, and Social Justice,” Dr. Monica Mesquita’s Adult Study Group, New University of Lisbon, 5th December, Lisbon, Portugal. Jointly with Dr. Maria de Carmo of the University of Sao Paulo, 2008.

Invited panelist, Session on “social constructionism in science and technology studies,” annual meeting of the Pacific Sociological Association, April 8-11, San Diego CA, 2009.

Nicholas C. Mullins Lecture, “The Social Life of the Brain,” Department of Science and Technology in Society, Virginia Technological University, April 24, 2009, Blacksburg, Virginia.

“Six Adult Mathematical Workers on Literacy, Numeracy, and Technoracy for Life,” paper presented at the Numeracy Works for Life (London South Bank University 7th National Numeracy Conference and Adults Learning Mathematics 16 Conference), July 6-9, London, 2009. With Monica Mesquita and Jorge, Trindade, Margarida, Isaura, Conceição and M^a São José (representing D.A.R. à Costa – Tr@nsFormArte, Costa da Caparica, Portugal).

SELECTED PROFESSIONAL ACTIVITIES

Founding member, Society for Social Studies of Science, San Francisco, 1975.

Regional editor, Newsletter of the Society for Social Studies of Science, 1975-1976.

Member, Board of External Advisors, Program in Technology and Science

Policy, Georgia Institute of Technology, 1979.

Member, Program Committee, Society for Social Studies of Science, 1977, 1978, 1982, 1984.

Member, Council of the Society for Social Studies of Science, 1983-1985.

Member, Publications Committee, Society for Social Studies of Science, 1983-1987, 1996-1999.

Program Committee Chair, Society for Social Studies of Science, 1987 Annual Meeting.

President, Society for Social Studies of Science 1993-95

Founding General Editor, Science, Technology, and Society series, State University of New York Press, 1986-2003.

FBI Unabom Task Force consultant, 1995-96

Editorial Advisory Committee. Consciousness and Culture, 1977-1980.

Editorial Advisor, Science, Technology, and Human Values, 1988-1990.

Sociology Advisory Panel, National Research Council/National Academies of Science, 2002-2005.

Advisory roles with American Council of Learned Societies, Economic and Social Research Council (UK), Austrian Science Fund, Research Foundation Flanders, Belgium, and other scholarly and policy agencies.

Member, Academy of Magical Arts, 2005-

Member, Scientific Committee, Perspectives on Mathematical Practices, Free University of Brussels, 2007.

Invited Participant, STS Directors' Retreat, Center for Science, Technology, and Society, Santa Clara University CA and the Inn at Saratoga CA, March 16-17, 2007.

Member, Advisory Board, Journal of Humanistic Mathematics, 2009-22