

# **CURRICULUM VITAE**

**(Short Form; 1/21/10)**

## **STEVEN LOUIS GOLDMAN**

### **Addresses**

Home: 127 Maple Avenue  
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### **Education**

Boston University, Ph.D., Philosophy (1971), M.A. (1966).  
University of London, University College (1963–1964).  
Polytechnic Institute of Brooklyn, B.S., Physics (1962).

### **Academic Positions**

Lehigh University, Bethlehem PA: Andrew W. Mellon Distinguished Professor in the Humanities, Professor of Philosophy and History, (1977–).  
(Director, Lehigh University Science, Technology & Society Program, 1977–1988.)

Pennsylvania State University, University Park PA: Assistant Professor, Department of Philosophy (1969–1977).

SUNY Stony Brook: Visiting Director, Colloquium in History and Philosophy of Science (1971–1972).

New School for Social Research, NYC: Instructor, Master of Arts in Liberal Studies Program, Graduate Faculty of the Political and Social Sciences, (1967–1969).

CUNY Baruch College, NYC: Instructor, Department of Philosophy, (1968–1969).

National Science Foundation Summer Institutes in the History and Philosophy of Science: Associate Director, Pennsylvania State University (1969). Co-Director, Western Michigan State University (1970).

### **Professional Activities**

**Program Committee, 2010 Meeting of the Forum for the Philosophy of Engineering and Technology (fPET), Colorado School of Mines, Boulder, CO.**

**Keynote speaker invitation to 2010 Forum for the Philosophy of Engineering and Technology**

**fPET Keynote Address: “Beyond Satisficing: Design, Trade-Offs and the Rationality of Engineering”**

Linus J. Pauling Memorial Lecturer, Portland OR, May 2008.

Senior Research Fellow, Sidney Edelstein Center for the History, Philosophy and Sociology of Science, Technology and Medicine, Hebrew University, Jerusalem January-December, 2004; July 2001–December, 2002.

Visiting Scholar, Van Leer Jerusalem Foundation, January-December 2004.

Chief Operating Officer and Chief Technical Officer, Agility Forum, Lehigh University, June 1995–Jan. 1997.

Sigma Xi National Lecturer, 1990–1992.

GTE Lecturer on Technology and Ethics, and Visiting Scholar, North Central College, Naperville, IL., February 1992.

Lilly Foundation Scholar in Residence, Monmouth College, June 1990.

Faculty Director (first non-engineer selected), WISE (Washington Internship for Students In Engineering) Program, Washington, DC. American Society for Engineering Education, Summer 1987.

NEH National Program Consultant for STS Studies, 1982–1987 (Michigan State University, Clemson University, Wesleyan College, University of Virginia, Oregon State University, Miami University of Ohio).

Curriculum Development Consultant: New Jersey Dept. of Higher Education, 1984–1987.

National Advisory Committee, National Science Foundation, Science Through Science, Technology, and Society, 1984–1987.

Principal Investigator and Project Director, National Science Foundation Grant *Elements of Technology In a Liberal Education*, Lehigh University, 1981–1984.

**Editorships**

Series Co-Editor, *Research In Technology Studies*, Lehigh University Press, 1985–1995.

Co-Editor, *Bulletin of Science, Technology and Society* (The Pennsylvania State University) 1981–1997.

## **Editorial Boards**

*Agility and Global Competition*, John Wiley, 1997–1999.

*Human Factors in Manufacturing*, John Wiley, 1997–2001.

Lehigh University Press, 1986–1998.

## **Professional Memberships**

American Philosophical Association

History of Science Society

International Society for the Study of Time

National Association for Science, Technology and Society

Philosophy of Science Association

Sigma Xi

## **Awards**

Christian R. & Mary F. Lindback Distinguished Teaching Award, Lehigh University, 1990.

Book-of-the-Year Award, Health Information and Management Systems Society, 1998.

## **A/V Productions**

*Great Scientific Ideas*, a 36 lecture A/V course in the history of science for The Teaching Company, Chantilly VA., with accompanying 65,000 word course guide. (Released May, 2007)

*Science Wars: What Scientists Know And How They Know It*, a 24 lecture video/audio course for The Teaching Company, Chantilly VA with accompanying 40,000 word course guide on the history of the philosophy of science from Descartes and Bacon to post-modernism. (Released May 2006)

*The Sciences in the 20<sup>th</sup> Century*, a 36-lecture audio/ video course with accompanying 65,000 word course guide surveying major physical, life and social science theories. The Teaching Company, Chantilly VA, (Released May 2004)

## **Books**

*Agility in Health Care: Strategies for Mastering Turbulent Markets*, Co-Editor (with Carol Graham) and contributor, Jossey-Bass, 1998. (Winner of 1998 Book of the Year Award, Health Information Systems Society).

*Cooperate to Compete: Building Agile Business Relationships*, Co-Author (Kenneth Preiss, Steven L. Goldman, Roger N. Nagel), Van Nostrand Reinhold, 1996 [now John Wiley].

*Agile Competitors and Virtual Organizations: Strategies for Enriching the Customer*, Co-Author (Steven L. Goldman, Roger N. Nagel, Kenneth Preiss), Van Nostrand, 1995. [This book has been translated into ten languages and was one of four

finalists for the Booz Allen- *Financial Times of London* award as best North American Management book of 1995. It has been reissued by John Wiley.]

*Competitiveness and American Society*, editor. Vol. 7 In Research In Technology Studies Series (Bethlehem, PA: Lehigh University Press, 1993).

*New Worlds, New Technologies, New Issues*, Co-Edited with Stephen H. Cutcliffe Manuel Medina and Jose San Martin, Lehigh University Press, 1992. [Published in Spain as *Nuevas Mundos, Nuevas Technologies, Nuevas Perspetivas* (Valencia, Spain: Anthropos).

*Science, Technology and Social Progress*, editor. Vol. 2 In Research In Technology Studies Series (Bethlehem, PA: Lehigh University Press, 1989).

*The Interrelation of Science, Philosophy and Religion*, a text commissioned by the National Science Foundation, Pennsylvania State University Press, University Park 1983.

*A Concise Text for Elementary Symbolic Logic*, Pennsylvania State University, University Park, 1977. [This book continues as the core required text for the Penn State Continuing Education version of their introductory symbolic logic course.]

### **Monographs/Reports**

*Social Computing, Organizational Growth and Innovation* (lead author), a White Paper summarizing the results of an industry- and PA state-funded 2008 research project involving a team of Lehigh faculty, undergraduate and graduate students along with corporate and non-profit organization experts and executives.

*The Next Generation Enterprise*, a reference monograph commissioned by the Society for Management Accountants of Canada for its 30,000+ members and adopted by the American Institute for Certified Public Accountants for its 275,000 members.

*21st Century Manufacturing Enterprise Strategy: An Industry-Led View*, editor, Vol. I, Iacocca Institute, Lehigh University, 1991. [This is the report that created the concept of agile manufacturing and a model for its implementation.]

*The History of Engineering Education: Perennial Issues In the Supply and Training of Talent*, a study commissioned by the Congressional Office of Technology Assessment in support of Congressional funding bills for engineering education in fiscal year 1989 and published in *Educating Scientists and Engineers: Grade School to Grad School*, Office of Technology Assessment. (Springfield, VA: National Technical Information Service). March 1988, pp. 244–305.

## Articles

“Information, Innovation and Society”, in *Technology and Psychological Wellbeing*, Y. Amichai Hamburger ed., Cambridge University Press, 2009.

“Next Generation Agility: Smart Business and Smart Communities”, in *The Network Experience*, P.H.M. Vervest et al, eds., Springer, 2008.

“Knowledge vs. Know-How”, in *Science and Spirit*, May/June 2007.

“Why we need a philosophy of engineering”, *Interdisciplinary Science Review*, June 2004.

“Think Value, Not Dollars: Corporate Disintegration and Virtual Accounting”, *Journal of Accountancy*, August 2002

“Post-modern Production and Science-Technology-Society Relationships: A Revolution Ignored”, in *Visions of STS*, Stephen H. Cutcliffe and Carl Mitcham, editors, Roman and Littlefield, 2000. [This article is published under the pseudonym Wilhelm Fudpucker.]

“Management, technology and agility: the emergence of a new era in manufacturing”, with Roger N. Nagel, *International Journal of Technology Management*, vol. 8, nos. 1/2, 1993.

“A History of Engineering Education and Institutes of Technology: United States”, in Burton R. Clark and Guy Neave, eds., *International Encyclopedia of Higher Education*. 1992, pp. 1106–1117.

“No Innovation Without Representation: Technological Action in a Democratic Society”, in *New Worlds, New Technologies, New Issues*, see Books, above.

“The Social Captivity of Engineering”, In Paul Durbin, ed., *Critical Perspectives on Nonacademic Science and Engineering*, Vol. 4 In *Research In Technology Studies Series*. (Bethlehem, PA: Lehigh University Press, 1991), pp. 121–45.

“Should the Public Have a Voice In Technological Development: Technological Action In a Democratic Society?”. *USA Today Magazine*, Vol. 120, No. 2558, (November 1991): 62–64.

“Who Killed Yankee Ingenuity?”. Essay for National Academy of Sciences Op-Ed Service, August 1990. Published in over 80 newspapers nationwide and selected for inclusion in *Headline Views, Science News: Expert Opinions on Today's Top Issues*, David Jammul, ed., National Academy Press, Washington, DC, 1991.

“Science, Technology and God: In Search of Believers”, *Bridges*, Vol. 2, No. 1/2 (Spring/Summer 1990): 43–56.

“La Realidad del Progress”, In *El Independiente*, Madrid, Spain, special supplement on technology and society, March 18, 1990.

“Images of Science and Technology In Popular Films”, *Science, Technology and Human Values*, Vol. 14, No. 3 (Summer 1989), 275–301.

“Philosophy, Engineering, and Western Culture”, In Paul T. Durbin, ea., *Broad and Narrow Interpretations of Philosophy of Technology*, (The Netherlands: Kluwer Academic Publishers, 1990), pp. 125–152.

“The Humanities In Science and Engineering Education”, Carnegie Communications Corporation, 1988. Reprinted often.

“The Techne of Philosophy and the Philosophy of Technology”, In Paul Durbin, ed., *Research in Technology and Society*, Vol. 7. (Greenwich, CT: JAI Press, 1984). 115–144.

“Modern Science and Western Culture: The Issue of Time”, *Journal for the History of European Ideas*. Vol. 3, No. 4, (Fall 1982), 61–88.

“On the Interpretation of Symbols and the Christian Origins of Modern Science”, *The Journal of Religion*. Vol. 62, No. 1, (Jan. 1982). 1–21.

“Science, Philosophy and Religion In the Seventeenth Century”, In *The Impact or Science and Technology on Society and Religion*, Joseph Kockelmans, ed. (University Park, PA: Pennsylvania State University Press, 1982). 1–26.

“On the Beginnings and Endings of Time In Medieval Judaism and Islam”, In *The Study of Time*, volume 4, J. T. Fraser, et al, eds. (New York: Springer-Verlag, 1981). 59–72.

“Science, Society and Engineering: The Coming Crisis”, *Bulletin of Science, Technology and Society*. Vol. 1 (1-2). 1981. 23–27.

“Revolution at Home and Abroad: Science and Technology In the Period 1870-1910”, Public Committee for the Humanities In Pennsylvania. Reprinted *Anthro/Tech Publications*. Vol. iv, No. 2. (1980).

“Responsibility and the Technological Process”, *Technology in Society*. Vol. 1, No. 4. (1980). 275–286.

“The Roots In Science of Anti-Science”, *Proceedings, Pennsylvania Academy of Sciences*. Vol. 53. (1979). 25–28.

“Present Strains on the Relations Between Science, Technology and Society”, In Proceedings of NASA Conference, Nov. 15, 1978. Reprinted In *Science, Technology and Human Values*. No. 27, (Spring 1979). 44–51.

“The Metaphysics of Objective Reason”, *Science/Technology and the Humanities*, Florida Institute of Technology. (September 1978).

“Medical Technology and Human Values”, *Medicine and Ethics*. Public Committee for the Humanities In Pennsylvania. Mansfield, PA: Mansfield State College. May, 1978. 11–19.

“John Dee's Mathematical Preface”, *Transactions* (contributed papers), Fifth International Congress for Logic, Methodology and the Philosophy of Science. (1976) 21–22.

“Alexander Kojève on the Origin of Modern Science: Sociological Modeling Gone Awry”, *British studies In the History and Philosophy of Science*. Vol. 6, No. 2, (1975). 113–124.

“Beyond Freedom and Dignity: The Inside Story”, *Philosophy and Rhetoric*. Vol. 7, No. 1. (1974) 5849.

### **Book Reviews**

**James Watt, Chemist: Understanding the Origins of the Steam Age. By David Philip Miller (London: Pickering & Chatto, 2009). In The European Legacy, volume 15, number 5, 2010.**

**Pure War: Twenty-Five Years Later. Paul Virillio and Sylvere Lotringer, Mark Polizotti, tr. (Los Angeles: Semiotext(e), 2008). In The European Legacy, vol. 15, no. 6, 2010.**

**Power Over Peoples: Technology, Environments and Western Imperialism, 1400 to the Present. Daniel R. Headrick. (Princeton University Press, 2010). In The European Legacy, vol. 15, no.6, 2010**

Reinventing Kant, a review essay, covering Robert Hanna’s *Kant, Science and Human Nature* (2006), *Rationality and Logic* (2006), and *Kant and the Foundations of Analytic Philosophy* (2001), in *The European Legacy*, volume 13, number 4, 2008.

*Technology Matters: Questions to Live With*, David Nye, in *The European Legacy*, volume 13, number 4, 2008

*Thinking With Objects: The Transformation of Mechanics in the 17<sup>th</sup> Century*, Domenico Agostino Meli, in *The European Legacy*, volume 13, number 4, 2008.

*Power, Speed and Form: Engineers and the Making of the 20<sup>th</sup> Century*, David P. Billington and David P. Billington, Jr, in *The European Legacy*, volume 12, number 7, 2007.

Review of *Biographies of Scientific Objects*, Lorraine Daston, ed., published in *Journal of the Philosophy of Biology*, Spring 2001

### **Lectures/Papers/Seminars**

**Design, Trade-Offs and the Rationality of Engineering. Keynote Address, Forum for Philosophy, Engineering and Technology 2010 meeting, Colorado School of Mines, Golden Colorado, MAY 1, 2010.**

Information Technology and Human Well-Being, Recanati InterDisciplinary Center, Herzlia, Israel, December 22, 2009.

“Science Wars: What Scientists Know and How They Know it”, Linus J. Pauling Memorial Lecture, Portland OR, May 1, 2008. (A public lecture, also broadcast on Oregon PBS stations, part of an annual series sponsored by the Institute for Science, Engineering and Public Policy and the Linus J. Pauling Foundation.)

“Agility 2.0: New Business Models and Social Computing”, Portland State University College of Business lecture,, May 15, 2008.

“Rationality, knowledge and Truth in Western Culture”, lecture to 300+ Portland OR high school students in the International Baccalaureate Program.

“The Social Captivity of Engineering and its Ethical Implications”, Drexel University, May 2006.

“From Love to Gravity: The Renaissance Roots of Modern Science”, Bar Hillel Colloquium Series public lecture, Hebrew University/Tel Aviv University, March 2004

“Necessity versus Contingency: Rationality in Philosophy, Science and Engineering”, Philosophy Department Colloquium at Bar Ilan University, Tel Aviv, April 2004.

“Contingency, Will and the Production of Technical Knowledge”, Canadian Society for the History and Philosophy of Science annual meeting, Toronto, August, 2002



“Rabbinic Judaism and the Science Wars”, American Academy of Religion annual meeting, Toronto, November 2002

“Towards a Philosophy of Engineering”, Hebrew University Jerusalem, faculty seminar in the history and philosophy of science, January 2002; also at Jerusalem College of Technology faculty seminar series Dec. 2001

“Sites of Innovation: A Commentary”, Society for the History of Technology annual meeting, Toronto, October 2002

“Innovation in the New Economy” at international conference “Sites of Innovation; Places of Discovery” sponsored by the Edelstein Center, Hebrew University, Jerusalem, October 2001

“The Future of R&D” at a conference on “The Emergence of the Modern Pharmaceutical Industry” co-sponsored by the Bloomberg Science Museum/Jerusalem and Teva Pharmaceuticals, Dec. 2001

Since 1991, over 60 keynote presentations, lectures, or seminars at national or international conferences, at universities in the U.S., Sweden, Holland, Israel, Singapore and Canada, at industry association meetings, corporations and public agencies.

Between 1969 and 1991, over 50 (invited) lectures/seminars on subjects in the history and philosophy of science at universities in the U.S., Europe, and Israel and at national and international academic conferences.

### **Lehigh Colloquia**

“The Engineer: Invisible Man of Western Culture”, National Engineering Week public lecture, February 2002

“Contingency, Will and Knowledge”, Philosophy Department colloquium, March 2002

“Engineering and the History of Western Culture”, STS/History Department colloquium series, April 2002

“The Rationality Wars in Western Culture: Philosophy, Science and Engineering”, Physics Department colloquium, April 2002

“The Rationality of Engineering”, Industrial and Manufacturing Systems Engineering Department colloquium, November 2002

### **Service**

**Graduate Advising:**

**Dissertation Committee Member, Christine Aragonis, Department of Physics**

**Dissertation Committee Member, Patrick Schmid, Department of Computer Science and Engineering**

Dissertation director and dissertation committee co-chair for Christine Pense who, in August 2008, successfully defended her dissertation.

**Undergraduate Advising:**

**Major 2**

**Non-Major – 2.**

**Lehigh University Committees**

**Member, Ed Pol, Fall 2010.**

**Chair, Conflict of Interest Resolution Committee, 2004-present.**

**Chair, Ad hoc Committee Investigating of Charge of Academic Plagiarism, Spring 2010.**

**Member, Search for CAS Dean, Fall 2010.**