

HAROLD T. SHAPIRO

Curriculum Vitae

PRESENT POSITION

President Emeritus and Professor of Economics and Public Affairs, 2001 -
Princeton University

ADDRESS AND TELEPHONE

Business: Department of Economics and
The Woodrow Wilson School of Public and International Affairs
359 Wallace Hall
Princeton, New Jersey 08544-0015
609-258-6184

EDUCATION

Undergraduate:

McGill University, Montreal, Quebec, Canada, 1952-1956
Degree: B-Comm., 1956
Honors: Lieutenant Governor's Medal in Commerce, 1956

Graduate:

Princeton University, 1961-1964
Degrees: M.A., Economics, 1964
Ph.D., Economics, 1964
Honors: Harold Helm Fellow, 1961-1964
Harold Dodds Senior Fellow, 1963-64
Fields: Econometrics, Mathematical Economics,
Science Policy

HONORARY DEGREES

D.Sc., Michigan Technological University, Houghton, Michigan, 1980
LL.D., Wayne State University, Detroit, Michigan, 1980
D.P.S., Central Michigan University, Mt. Pleasant, Michigan, 1980
LL.D., Grand Valley State Colleges, Allendale, Michigan, 1983
LL.D., Albion College, Albion, Michigan, 1985
LL.D., Michigan State University, East Lansing, Michigan, 1987
LL.D., The University of Michigan, Ann Arbor, Michigan, 1987
LL.D., Rutgers University, New Brunswick, New Jersey, 1988
LL.D., Yale University, New Haven, Connecticut, 1988
LL.D., McGill University, Montreal, Quebec, Canada, 1988

LL.D., Centenary College, Hackettstown, New Jersey, 1992
LL.D., University of Toronto, Toronto, Ontario, Canada, 1994
D.H.L., Yeshiva University, New York, New York, 1996
Doctor's degree, University of Edinburgh, 2000
Doctor of Public Policy, Carnegie Mellon University, Pittsburgh, PA, 2009
Doctor of Humane Letters, Thomas Edison State College, Trenton, NJ, 2009

Council of Scientific Society Presidents, 2000 Citation for Outstanding Leadership
Clark Kerr Lecturer, University of California, 2003
William D. Carey Lectureship Award for Leadership in Science Policy, 2006
Clark Kerr Award for Lifetime Achievement in Higher Education, University of California,
Berkeley, 2009
National Academy of Science Public Welfare Medal, 2012

MEMBERSHIPS — ELECTED

1989 Institute of Medicine of the National Academy of Sciences
1990 American Philosophical Society
1990 Fellow of the American Academy of Arts and Sciences
2000 Fellow of the College of Physicians of Philadelphia
2001 Active Member of the European Academy of Sciences and Arts
2006 Fellow of The American Association for the Advancement of Science

EXTERNAL BOARD MEMBERSHIPS

1997- Member, Board of Directors, Foundation for a Greater Opportunity
1999- Member, National Advisory Council, Center for State Health Policy -
 Institute for Health, Health Care Policy, and Aging Research - Rutgers
 University
2001- Board of Directors, DeVry, Inc.
2008- Chair, Board of Directors, DeVry, Inc.

- 2002- Member, Board of Trustees, American Jewish Committee
- 2002- Member, Board of Trustees, Technion – Israel Institute of Technology
- 2004- Member, Knight Foundation Commission on Intercollegiate Athletics
- 2004- Member, Merck Vaccine Advisory Board
- 2004- Member, Advisory Committee on Stem Cell Initiatives, Johnson & Johnson
- 2004- Member, National Academy of Science Committee on Policy & Global Affairs
- 2005- Member, Stem Cell Institute of New Jersey Joint Board of Managers
- 2006- Member, Board of Trustees, Princeton Healthcare Systems
- 2006- Member, National Institute of Health's National Human Genome Research Institute Council Subcommittee
- 2009- Member, Board of Directors, Institute for Advanced Study
- 2010- Chair, InterAcademy Council Committee on the Review of the International Panel on Climate Change

PROFESSIONAL ACTIVITIES

- 1979-1981 Member, Divisional Board, Catherine McAuley Health Center (Chair, Finance Committee)
- 1979-1982 Member, Board of Trustees, Joint Council on Economic Education
- 1980-1982 Chair, Presidents Council of State Colleges and Universities
- 1980-1982 Member, Service Policy Advisory Committee, Office of the United States Trade Representative
- 1980-1985 Member, Committee on Research Management, Association of American Universities (1981-1985 Chair, Committee on Research Management)

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- 1980-1987 Member, Governor's High Technology Task Force, State of Michigan
- 1980-1989 Chair, Special Presidential Committee, The Research Libraries, Inc.
- 1988-2007 Chair, Board of Trustees, Alfred P. Sloan Foundation
- 1980-2010 Member, Board of Trustees, Alfred P. Sloan Foundation
- 1981-1989 Member, Board of Directors, Unisys Corporation (formerly Burroughs Corporation)
- 1982-1984 Member, Panel on Scientific Communication and National Security, National Academy of Sciences
- 1982-1983 Chair, Higher Education-Industry Savings Bonds Campaign
- 1982-1984 Member, Commission on Women in Higher Education, American Council on Education
- 1982-1988 Member, Ad Hoc Committee on the Problems of Major Intercollegiate Athletic Programs, American Council on Education (Member, Subcommittee on Academic Standards)
- 1982-1989 Member, Board of Directors, Industrial Technology Institute
- 1982-1989 Member, Board of Directors, Kellogg Company
- 1983- Member, The Conference Board, Inc.
- 1983-1987 Member, Governor's Commission on Jobs and Economic Development, State of Michigan (Member, Higher Education Subcommittee; Member, Finance Subcommittee)
- 1984-1986 Member, Committee on Exchanges Academic Advisory Panel, A Subcommittee of the Technology Transfer Intelligence Committee, Central Intelligence Agency
- 1984-1986 Member, Commission on College Retirement, Carnegie Corporation of New York
- 1984-1987 Member, Council of Government-University-Industry Research Roundtable, National Academy of Sciences
- 1985-1988 Member, Board of Advisors to American Board of Internal Medicine

- 1985-2006 Member, Presiding Director, Board of Directors, The Dow Chemical Company
- 1985-1991 Member, Technical Advisory Council, Ford Motor Company
- 1985-2006 Member, Board of Directors, The Dow Chemical Company
- 1986-1987 Member, American Council on Education Ad Hoc Advisory Group on Intercollegiate Athletics
- 1986-1987 Vice Chair, Association of American Universities
- 1986-1999 Member, Board of Directors, National Bureau of Economic Research, Inc.
- 1987-2001 President of Princeton University and Chair, Board of Trustees, Princeton University
- 1987-1988 Chair, Mid-Decade Review Committee, Program in Education and Culture, The Ford Foundation
- 1987-1988 Member of Commission, One-Third of a Nation: Minorities in the United States
- 1987-1988 Chair, Association of American Universities
- 1987-1991 Member, New Jersey Commission on Science and Technology
- 1987-1992 Member, Working Group Two, Government-University-Research Roundtable, National Academy of Sciences
- 1988-1990 Chair, Institute of Medicine Committee to Study Strategies to Strengthen the Scientific Excellence of the NIH Intramural Research Program
- 1988-1995 Member, Board of Trustees, Interlochen Center for the Arts
- 1988-2001 Member, Board of Trustees, Universities Research Association, Inc. (1993 - 1995 Member, Executive Committee)
- 1989-1991 Member, Board of Directors, The American Council on Education (1989 - 1991 Member, Membership Committee)
- 1989-1991 Member, Board of Governors, The Research Libraries Group, Inc.

- 1990-1993 Member, Vice Chair (1992-93), President's Council of Advisors on Science and Technology
- 1991-1993 Chair, Institute of Medicine Committee on Employer-Based Health Benefits
- 1991-1994 Member, Board of Directors, Consortium on Financing Higher Education (1992 - 1994 Chair)
- 1993-1996 Member, German-American Academic Council
- 1993-2001 Member, Board of Trustees, University of Pennsylvania Medical Center
- 1994-2000 Member, Board of Trustees, Educational Testing Service
- 1996-2001 Chair, National Bioethics Advisory Commission (NBAC)
- 1998-2001 Co-Chair, The Edison Partnership
- 1999-2001 Member, Division I Board of Directors, The National Collegiate Athletic Association and Member, NCAA Executive Committee
- 2000-2006 Member, Board of Overseers, Robert Wood Johnson Medical School
- 2001-2006 Member, Board of Directors, HCA, Inc.
- 2001-2009 Member, Board of Directors, The Hastings Center
- 2001-2004 Member, Reading is Fundamental, Inc.
- 2002-2004 Member, Board of Trustees, The New Jersey Commission on Health Science, Education, and Training
- 2002-2003 Chair, National Academy of Science Committee on the Organization of NIH
- 2004-2006 Member, University of Pennsylvania's External Advisory Board
- 2004-2006 Chair, National Academy of Science Committee on Particle Physics
- 2004-2007 Member, Board of Directors, United States Olympic Committee
- 2005-2009 Member, New Jersey Commission on Science and Technology

- 2006-2010 Member, Board of Trustees, University of Medicine and Dentistry of New Jersey
- 2006-2010 Member, National Research Council's Embryonic Stem Cell Research Advisory Committee
- 2007-2010 Chair, National Academy of Science Committee on America's Energy Future
- 2007-2010 Member, National Institute of Health Council of Council

EXPERIENCE

Teaching and Research:

- 1964-1967 Assistant Professor of Economics, University of Michigan
- 1967-1970 Associate Professor of Economics, Director of Graduate Program, University of Michigan
- 1967-1981 Co-Director, Research Seminar in Quantitative Economics, University of Michigan
- 1970-1976 Professor of Economics, University of Michigan
- 1976-1987 Research Scientist, Institute of Labor and Industrial Relations, University of Michigan
- 1976-1987 Research Scientist, Institute of Public Policy Studies, University of Michigan
- 1977-1987 Professor of Economics and Public Policy, University of Michigan
- 1977-1987 Senior Fellow, Michigan Society of Fellows, University of Michigan
- 1980-1988 President, University of Michigan
- 1988-2001 President, Princeton University
- 2001- Professor of Economics and Public Affairs, Princeton

University

Administrative and Committee Assignments:

1970-1973	Director, Graduate Program in Economics, University of Michigan
1972-1974	Chair, Residential College Joint Board, University of Michigan
1972-1974	Member, University Committee on Computer Policy and Utilization, University of Michigan
1972-1977	Member and Chair, University Budget Priorities Committee, University of Michigan
1974	Member, University Fee Structure Committee, University of Michigan
1974-1975	Member, College of Literature, Science, and the Arts Deanship Search Committee, University of Michigan
1974-1977	Chair, Department of Economics, University of Michigan
1974-1977	Member, Executive Committee, Institute for Social Research, University of Michigan
1974-1977	Member, Executive Committee, Institute of Public Policy Studies, University of Michigan
1976-1977	Member, Executive Committee, Institute of Labor and Industrial Relations, University of Michigan
1977	Member, Residential College Director Search Committee, University of Michigan
1977	Member, Executive Committee, College of Literature, Science and the Arts, University of Michigan
1977-1979	Vice President for Academic Affairs and Chair, Committee on Budget Administration, University of Michigan
1977-1979	Vice Chair, Executive Board, University of Michigan

	Hospitals
1977-1979	Chair, Joint Conference Committee, University of Michigan Hospitals
1978-1979	Chair, Cost Containment Committee, University of Michigan Hospitals
1980-1987	Chair, Executive Board, University of Michigan Hospitals
1980-1987	Chair and Member (ex officio), The University of Michigan Board of Regents

OTHER EXPERIENCE

1956 (Summer)	Computer Programmer, Computer Laboratory, McGill University
1956-1961	Operated a number of private business ventures
1962 (Summer)	Research Assistant, Princeton University
1963 (Summer)	Research Assistant, Econometric Research Program, Princeton University
1965-1968	Consultant, United States Treasury (forecasting)
1965-1972	Research Advisor, Bank of Canada, Ottawa
1966-1967	Research Associate, Massachusetts Institute of Technology
1968-1969	Senior Research Associate (Non-Resident), Brookings Institution, Washington, D.C.
1968-1969	Research Consultant, Economic Council of Canada
1971-1975	Co-Chair, NSF-NBER Seminar on Evaluation of Econometric Models
1974	Program Chair, Business and Economic Statistics Section, American Statistical Association

1977-1978

Member, Council of American Statistical Association

SELECTED PUBLICATIONS

"Compensating Balance Requirements: The Theory and Its Implications," Southern Economic Journal, 1964 (with N. Baxter).

"Compensating Balance Requirements: The Results of a Survey," Journal of Finance, 1964 (with N. Baxter).

"The Demand for Money: Further Evidence from the Time Series," Journal of Political Economy, 1964 (with T. Courchene).

"Oligopoly Theory and Retail Food Pricing," Journal of Business, 1964 (with W. Baumol and R. Quandt).

"Distributed Lags, Interest Rate Expectations and the Impact of Monetary Policy," American Economic Review, 1967.

"Banking Structure and the Growth of Non-Bank Financial Intermediaries," National Banking Review, 1967 (with N. Baxter and D. MacFarland).

"The FBR-MIT Econometric Model: Its Special Features," American Economic Review, 1968 (with R. Rasche).

"Consumer Attitudes, Buying Intentions and Expenditures," Canadian Journal of Economics, 1969.

"Econometric Analysis of Policy Choices in an Open Economy," Review of Economics and Statistics, November 1969 (with J. Helliwell, L. Officer, and I. Stewart).

"The Structure of RDX1," Monograph-Bank of Canada Staff Research Study (with J. Helliwell, L. Officer, and I. Stewart).

The Economic Outlook for 1970 - Proceedings of the 17th Annual Conference on the Economic Outlook, The University of Michigan, Ann Arbor, Michigan, 1970 (with S. Hymans). (Ditto: 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, and 1981.)

"DHL-III-A Quarterly Econometric Model of the U.S. Economy," Monograph-Research Seminar in Quantitative Economics, The University of Michigan, Ann Arbor, Michigan, 1970 (with S. Hymans).

"The Choice of Optimal Intermediate Economic Targets," American Economic Review, May 1970 (with R. Holbrook).

"The Efficacy of Monetary and Fiscal Policy-A Comment," Journal of Money, Credit and Banking, 1971.

"Econometric Modeling and the Influence of U.S. Price Movements on Canadian Inflation—A Comment," Inflation-The Canadian Experience, D. Swan and D. Wilton (Eds.).

"Criteria for the Evaluation of Econometric Models," Annals of Economic and Social Measurement, P. 113, 1972 (with P. Dhrymes, et al). Reprinted in a Brookings volume.

"The Index of Consumer Sentiment and Economic Forecasting-A Reappraisal," Human Behavior in Economic Affairs, Essays in Honor of George Katona, Elsevier Scientific Publishing Company, Amsterdam, 1972.

"The Structure of RDX2-a New Model of an Open Economy." Bank of Canada Research Study, 1972 (with J. Helliwell, G. Sparks, and I. Stewart).

"Poverty in Canada-A Bourgeois Economist's View." This forms one chapter in a book on Canadian Economic Problems and Policies, L. Officer and L. Smith (Eds.).

"Monetary and Fiscal Influences on U.S. Money Income-A Comment," Journal of Money, Credit and Banking, 1973.

"Is Verification Possible? The Evaluation of Large Econometric Models," American Journal of Agricultural Economics, June 1973.

"The Allocation of Household Income to Food Consumption," Five Thousand American Families-Patterns of Economic Progress, Institute for Social Research, The University of Michigan, Ann Arbor, Michigan, 1973. A revised and expanded version of this paper is published in the Journal of Econometrics, 1976.

"Macro-Econometric Model Building in Socialist and Non-Socialist Countries-A Comparative Study," presented at the Econometric Society 3rd World Congress, Toronto, Canada, 1975 (with L. Halabuk). Published in the International Economic Review, October 1976.

"Inflation in the United States (1953-1974) An Analysis and Interpretation," in World Inflation, L. Krause and W. Salant (Eds.), Brookings Institution, Washington, D.C., 1977.

"The Structure and Properties of the Michigan Quarterly Econometric Model of the U.S. Economy," International Economic Review, 1974 (with S. Hymans). Reprinted in Economic

Performance, E. Burmeister and L. Kleing (Eds.), University of Pennsylvania Press, 1977.

"The Dynamics of Household Budget Allocation to Food Expenditures," Review of Economics and Statistics, November 1977 (with J. Benus and J. Kmenta).

"Macroeconometric Models of the Soviet Union and Eastern European Economics: A Tabular Survey," Econometrica, November 1977.

Commentary on "The Use of Econometric Methods in the Analysis of Centrally Planned Economics," by Donald W. Green, Journal of Comparative Economics, Volume 1, Number 3, 1977.

"Econometric Review of Alternative Fiscal and Monetary Policies: (1971-1975)," Review of Economics and Statistics, August 1978 (with S. Hymans and A. Hirsch).

"Inflationary Expectations and Consumer Behavior," Business Cycle Analysis: Papers Presented at the 14th CIRET, (Center for International Research on Economic Tendency Surveys) (with F.T. Juster), Conference Proceedings, Lisbon, 1979, pp. 143-186. (Published by Gover Publishing Company Limited, Westmead, Farnborough, Hants, England).

"The Social and Political Challenge of Inflation: An Economist's View" University of Michigan Journal of Law Reform, Volume 14, Number 2, Winter 1981.

"Perspectives on the Forecasting Accuracy of Macro-econometric Models," presented at NSF Conference, Ann Arbor, Michigan, October 1978 (with D. Garmen). Large Scale Macroeconometric Models: Theory and Practice, J. Kmenta and J.B. Ramsey (Eds.), North Holland Publishing Company, Amsterdam, 1981.

"The Privilege and the Responsibility-Some Reflections on the Nature, Function, and Future of Academic Tenure," Academe, November-December 1983.

"Are Schools for Learning?" The Education Digest, December 1983.

"Retooling Colleges for the 21st Century," New York Times, April 15, 1984.

"Is Taking Sides a Good Idea for Universities?" Science, July 6, 1984.

"Paradox, Change and Choice: An Economist's View of Some Current Health Care Resource Issues," The American Journal of Cardiology, Volume 56, August 23, 1985, pp. 3C-9C.

A Regional Econometric Forecasting System-Major Economic Areas of Michigan with George A. Fulton, The University of Michigan Press, Ann Arbor, Michigan, 1985.

"A National Research Strategy" (Commentary), Issues in Science and Technology, Spring 1986.

Tradition and Change: Perspectives on Education and Public Policy. The University of Michigan Press, Ann Arbor, Michigan, 1987.

"The Purpose of Schools Should Be Learning," The Education Digest, April 1988.

"The Keys to World Leadership: Science, Technology, Economic Growth and Everything," New Jersey Bell Journal, Volume II, Number 2, Summer 1988.

"A Dialogue on Competitiveness," Issues in Science and Technology, Summer 1988 (with Ralph E. Gomory).

"Higher Education in a Changing Environment; Some Scholarly and Economic Imperatives" Higher Education in a Changing Economy, Katherine H. Hanson and Joel W. Myerson (Eds.), MacMillan, New York 1990.

"Reflections on the Future of University-Based Research," Educational Record, Spring 1990.

"The Willingness to Risk Failure," Science, Volume 250, Number 4981, November 2, 1990.

"The Research University and the Economy," Queen's Quarterly, Volume 98, Number 3, Fall 1991. Also The Bridge, Volume 22, Number 3, Fall 1992.

"Balancing a Portfolio of Civic Responsibilities: The Research University," A Higher Education Map for the 1990s, Gene A. Budig (Ed.), American Council on Education/Macmillan Series on Higher Education, Spring 1992.

"The Functions and Resources of the American University of the Twenty-First Century," Minerva, Volume 30, Number 2, Summer 1992.

"Notes on the American University in a Changing World," The Universities of the Future: Roles in the Changing World Order, presented at The First Richard A. Harvill Conference on Higher Education, The University of Arizona, November 1992.

"Current Realities and Future Prospects," Academe, Volume 78, Number 7, January/February 1993.

Employment and Health Benefits: A Connection at Risk, Institute of Medicine, Marilyn J. Field and Harold T. Shapiro (Eds.), National Academy Press, Washington, D.C., 1993.

"Universities in Higher Education: Some Problems and Challenges in a Changing World," Policy Frameworks for a Knowledge Economy, T. Courchene (Ed.), (with Bernard J. Shapiro), John Deutsch Institute for the Study of Economic Policy, Queen's University, Kingston, Ontario, October 1994.

"The New University? The New Liberal Education?" Changing in a World of Change, The University of Michigan, October 1995.

"New Opportunities and New Constraints-Developing Tension in American Higher Education," New Horizons in Research and Higher Education: Trends, Constraints, and Opportunities, Second Public GAAC Symposium, National Academy Press, Washington, D.C., 1996.

"Cognition, Character, and Culture in Undergraduate Education: Rhetoric and Reality," The American University, National Treasure or Endangered Species? Ronald G. Ehrenberg (Ed.), Cornell University Press, 1997.

"University Presidents-Then and Now," Universities and Their Leadership, William G. Bowen and Harold T. Shapiro (Eds.), Princeton University Press, 1998.

"Sistemas Éticos y Políticas Públicas: La Clonación de Seres Humanos. Un Ejercicio de Noventa Días Sobre la Ética Práctica y Profesional (Ethical Considerations and Public Policy. A Ninety Day Exercise in Practical and Professional Ethics: Cloning Human Beings), En las Fronteras de la Vida: Ciencia y Ética de la Clonación, presented at the Instituto De Bioetica Conference in Madrid, Spain, January 16, 1998.

"Stopping Science: Human Cloning-Should It Be Stopped?" Health Matrix: Journal of Law-Medicine, Volume 9, Number 2, Summer 1999, presented at the "Stopping Science" workshop, Case Western Reserve University, September 25, 1998.

"Ethical Considerations and Public Policy. A Ninety Day Exercise in Practical and Professional Ethics: Cloning Human Beings," Science and Engineering Ethics, Volume 5, Issue 1, January 1999.

"Liberal Education, Moral Education," Princeton Alumni Weekly, January 27, 1999.

"The Genetic Revolution and Human Rights: The Oxford Amnesty Lectures 1998," Justine Burley (Ed.), Nature Biotechnology, Volume 17, April 1999.

"Almost Persuaded: Reactions to Oldham et al," Archives of General Psychiatry, Volume 56, August 1999 (with J.F. Childress).

"Reflections on the Interface of Bioethics, Public Policy and Science" Kennedy Institute of Ethics Journal, Volume 9, Number 3, The Johns Hopkins University Press, September 1999.

"Ethical Dilemmas and Stem Cell Research," Science, Volume 285, Number 5436, September 1999.

Review of "Germ-Line Intervention and our Responsibilities to Future Generations", The New England Journal of Medicine, December 23, 1999.

Review of "The Second Creation: Dolly and the Age of Biological Control" in New Scientist, March 18, 2000.

"Federal Policy Making for Biotechnology, Executive Branch, National Bioethics Advisory Commission," Encyclopedia of Ethical, Legal, and Policy Issues in Biotechnology, Thomas J. Murray and Maxwell J. Mehlman (Eds.), John Wiley & Sons, Inc. 2000.

"Reflections on the Interface of Bioethics, Public Policy, and Science," The Cloning Sourcebook, Arlene Judith Klotzko (Ed.), Oxford University Press, 2001.

"Ethical Issues in the Designing and Conduct of Clinical Trials in Developing Countries," The New England Journal of Medicine, Meslin, E. M. (co-author), 345:139-142, 2001.

A Larger Sense of Purpose: Higher Education and Society, Shapiro, Harold T., Princeton University Press, 2005.

Belmont Revisited, Ethical Principles for Research with Human Subjects, James F. Childress, Eric M. Meslin, and Harold T. Shapiro, Editors, Georgetown University Press, 2005.

"The Hamantash and the Foundation of Civilization: or, the Edible Triangle, the Oedipal Triangle, and the Interpretation of History," The Great Latke – Hamantash Debate, Ruth Freedman Cernea, Editor, University of Chicago Press, 2005.

February 2012