

Curriculum Vitae
William D. Nordhaus
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Biographical Data

Place of Birth: Albuquerque, New Mexico

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Education

Yale University, B.A., 1963; M.A. (Priv.), 1973

Institut d'Etudes Politiques (Paris), Certificat, 1962

Massachusetts Institute of Technology, Ph.D. (Economics), 1967

Academic and Professional Positions

Sterling Professor of Economics, Faculty of Arts and Sciences, Yale University,
2001 to present, Department of Economics and School of the Environment

Adjunct Professor, University of Copenhagen, 2008 - 2010 .

Honorary Professor, Xian University, Xian, China, 2006.

Honorary Professor, Tianjian University, Tianjian, China, 2006.

A. Whitney Griswold Professor of Economics, Yale University, 1991-2001.

Vice President for Finance and Administration, Yale University, 1992-93.

Provost, Yale University, 1986-88.

John Musser Professor of Economics, Yale University, 1979 to 1991.

Member of staff, Cowles Foundation for Research in Economics, 1967 to present.

Member, President's Council of Economic Advisers, United States Government, January 1977 to February 1979.

Visiting Professor, Delhi School of Economics, Delhi, India, January-February 1986.

Research Scholar, International Institute for Applied Systems Analysis, Laxenburg, Austria, 1974-75.

Professor of Economics, Yale University, 1973 to present.

Associate Professor of Economics, Yale University, 1970-73.

Assistant Professor of Economics, Yale University, 1967-70.

Senior Visitor, University of Cambridge (England), 1970-71.

Professional Honors

Nobel Prize in Economics, 2018.

President of American Economic Association for 2014-2015; President-elect of American Economic Association for 2013-2014; Executive Committee, American Economic Association for 2013-2017.

Elected to American Philosophical Society

Elected to U. S. National Academy of Sciences

Elected to Swedish Academy of Engineering Sciences

Elected Fellow, American Academy of Arts and Sciences

Elected Fellow, Econometric Society

Thomas C. Schelling Award by Harvard University, 2015.

Harwood F. Byrnes/Richard B. Sewall Teaching Prize, Yale University, 2013.

Julius Shiskin Memorial Award for Economic Statistics, 2012.

International Association for Energy Economics, Outstanding Contributions to the Profession Award, 2011.

2006 Award for "Publication of Enduring Quality," Association of Environmental and Resource Economics for *Managing the Global Commons* (MIT Press, 1994).

Awarded the Distinguished Fellow Award by the American Economic Association, 2005.

1999 United States Association of Energy Economics Adelman-Frankel Award, 2010.

BBVA Frontiers of Science Award, Climate Change, 2018.

Patrick Moynihan Award, 2020.

US National Academy of Sciences, 2019 Cozzarelli Prize for Outstanding Contribution in the Proceedings of the US National Academy of Sciences.

Professional Positions and Research Grants

Research Associate, National Bureau of Economic Research, 1967 - present.

Research Associate in Economic Fluctuations, Public Economics, Productivity, Energy and Environmental Economics.

Member or Senior Adviser, Brookings Panel on Economic Activity, 1972 to present.

Representative of American Economic Association to American Academy for the Advancement of Science, 1976-79.

Member, National Academy of Science, Carbon Dioxide Assessment Committee, 1980-1984.

Member, Advisory Committee, NASA, 1982-1983.

Member, Carnegie Endowment for International Peace, Panel on Arms Control, 1979-80.

Executive Committee: American Economic Association, 1983-1986; 2013-2017; Eastern Economic Association, 1983-1987.

Visiting Committee, MIT, 1993-1998.

Editorial Board for different periods: American Economic Review; The Energy Journal; Journal of Policy Modeling; Journal of Conflict Resolution; Eastern Economic Review; Resources and Energy; Environmental Modeling and Assessment

Co-Chairman, Economic Policy Study Group, Center for National Policy, 1982 - 1986

Member, National Academy of Sciences, Committee on the Policy Implications of Greenhouse Warming, Synthesis Committee and Panel on Adaptation

Member, National Academy of Sciences, Panel on R&D on Energy, Member of Synthesis Panel and Vice-Chairman of Panel on Strategies

Member, National Academy of Sciences, Committee on Human Dimensions of Global Change

Member, Social Science Research Council, Committee on Growth and Stability

Member, Social Science Research Council, Committee on Human Dimensions of Global Change

Member, U. S. Committee on IIASA (International Institute for Applied Systems Analysis), various years.

Member, National Science Foundation Review Committee, Human Dimensions of Global Environmental Change.

Member, National Science Foundation, Review Committee on IIASA (International Institute on Applied Systems Analysis)

Member of Group on Economies in Transition, sponsored by IIASA; chairman of Working Group on Stabilization; member of Steering Committee.

Member, National Academy of Sciences, Committee on National Statistics, 1992 – 2000.

Chairman, National Academy of Sciences, Panel on Integrated Environmental Accounting, 1996 -1999.

Member, National Academy of Sciences, Committee on Data and Research on Illegal Drugs, 1998 – 2001 . Chair, Subcommittee on the Organization of Data Collection.

Member, National Academy of Sciences, Committee on the Societal Impacts of Abrupt Climate Change, 2000 – 2002.

Member, Social Science Research Council, Panel on Graduate Education, 1997 - 1999.

Member, Expert Panel, Congressional Budget Office, 1998 – 2009.

Chair, Advisory Panel, Bureau of Economic Analysis, 2000-2004; Member, Advisory Panel, Bureau of Economic Analysis, 2000– .

Member, National Academies, Division of Behavioral and Social Sciences and Education, 2005-2011.

Program Director, Yale/NBER/IIASA Program on International Environmental Economics, funded as a Consortium Grant from the National Science Foundation, 1996 – 2006.

Chair, American Economic Association, Exploratory Committee on Economic Statistics, 2001 - 2002.

Chair, American Economic Association, Committee on Economic Statistics, 2002 – 2006.

Chair, National Academy of Sciences, Panel on Effects of Provisions in the Internal Revenue Code on Greenhouse Gas Emissions, 2010 - 2012.

Member, National Academy of Sciences, Panel on the Macroeconomic Effects of Aging, 2010 - 2012.

Program Director, Yale Program on Non-market Accounting, Sponsored by the Glaser Foundation, 2001 - 2006.

Elected Member of the FAS Senate of Yale University, 2015-2017; Deputy Chair, 2015-2016.

Member of Board of Directors, Federal Reserve Bank of Boston, 2010 –2015 ; Deputy Chair, Board of Directors, Federal Reserve Bank of Boston, 2012 – 2013; Chair, Board of Directors, Federal Reserve Bank of Boston, 2014 - 2015. Member, Conference of Chairs and Deputy Chairs, Federal Reserve System, 2012 - 2015.

Research grants for different periods from the U.S. National Science Foundation, U.S. Department of Energy, U.S. Environmental Protection Agency, U.S. Bureau of Labor Statistics, Sloan Foundation, Ford Foundation, Electric Power Research Institute, Glaser Progress Foundation, and Kauffman Foundation, Lounsbery Foundation

PUBLICATIONS

BOOKS:

Invention, Growth and Welfare: A Theoretical Treatment of Technological Change. M.I.T. Press, 1969.

Is Growth Obsolete? with James Tobin in *Economic Growth*, N.B.E.R. 1972; also published in *Income and Wealth*, Volume 38, Publisher N.B.E.R., New York, 1973, [click here](#) for first part and [click here](#) for details.

International Studies in the Demand for Energy, editor, with contributions, North-Holland Publishing Company, 1977. Also published as William D. Nordhaus, ed., *Proceedings of the Workshop on Energy Demand*, IIASA Collaborative Paper CP-76-001, January 1976.

Industrial Pricing in the United Kingdom, with Wynne Godley and Kenneth Coutts, Cambridge University Press, 1978.

The Efficient Use of Energy Resources, Yale University Press, 1979.
Reforming Federal Regulation, with Robert E. Litan, Yale University Press, 1983.

ECONOMICS, with Paul A. Samuelson, Twelfth Edition, McGraw-Hill, 1985; Thirteenth Edition, 1989; Fourteenth Edition, 1992; Fifteenth Edition, 1995; Sixteenth Edition, 1998; Seventeenth Edition, 2001; Eighteenth Edition, 2005; Nineteenth Edition, 2009. Foreign English-language editions in Canada, Australian, and Britain. Foreign translations in Armenian, Chinese, Croatian, Czech, German, Greek, Hungarian, Indonesian, Italian, Japanese, Kazak, Portuguese, Russian, Slovak, Slovenian, Spanish, and Vietnamese.

The Share Economy: A Symposium, editor, with Andrew John, published by *The Journal of Comparative Economics*, vol. 10, 1986.

Toward a New Iron Age? A Study of Patterns of Resource Exhaustion, with Robert B. Gordon, Tjalling C. Koopmans, and Brian J. Skinner, Harvard University Press, 1988.

Money, Macroeconomics, and Economic Policy: Essays in Honor of James Tobin, editor with William C. Brainard and Harold W. Watts, MIT Press, Cambridge, Massachusetts, 1991.

Costs, Impacts, and Benefits of CO2 Mitigation, Y. Kaya, N. Nakicenovic, W. Nordhaus, and F. Toth, eds., IIASA, CP-93-002, 1993.

Managing the Global Commons: The Economics of Climate Change, MIT Press, Cambridge, MA. 1994.

Integrative Assessment of Mitigation, Impacts, and Adaptation to Climate Change, N. Nakicenovic, W. Nordhaus, R. Richels, and F. Toth, eds., IIASA, CP-94-009, 1994 also published as a special issue of *Energy Policy*, vol. 23, No. 4/5, April 1995.

Climate Change: Integrating Science, Economics, and Policy, N. Nakicenovic, W. Nordhaus, R. Richels, and F. Toth, eds., IIASA, CP-96-1, 1996.

The Swedish Nuclear Dilemma: Energy and the Environment, Resources for the Future, Washington, D.C., 1997. (Also published in Swedish as *Körnkraft och Miljö - ett Svenskt Dilemma*, SNS Förlag, Stockholm, 1996.)

Economic and Policy Issues in Climate Change, editor, with contribution, Resources for the Future Press, Washington, 1998.

Nature's Numbers: Expanding the National Economic Accounts to Include the Environment, Report of the Panel on Integrated Environmental and Economic Accounting, edited, with Edward Kokkelenberg, National Academy Press, 1999.

Warming the World: Economic Modeling of Global Warming, with Joseph Boyer, MIT Press, Cambridge, Mass., Summer 2000.

Induced Innovation and Climate Change: Collected Essays, ed. with Nebojsa Nakicenovic and Arnulf Gruebler, Resources for the Future Press, 2002.

Architecture for the National Accounts, eds., Dale Jorgenson, J. Steven Landefeld, and William Nordhaus, Chicago University Press, 2006.

A Question of Balance: Weighing the Options on Global Warming Policies, Yale University Press, New Haven, CT, 2008. A copy of the prepublication version is available, [click here](#).

Technological Change to Promote a Low Carbon Economy, Ed. with Nebojsa Nakicenovic, *Energy Economics*, Special Issue, 2011.

The climate casino: Risk, uncertainty, and economics for a warming world. Yale University Press, New Haven, CT, USA, 2013.

Nordhaus, William D., Stephen A. Merrill, and Paul T. Beaton, eds. *Effects of US Tax Policy on Greenhouse Gas Emissions*. National Academies Press, 2013.

Nordhaus, William, *The Spirit of Green*, Princeton University Press, 2021.

Testimony, Reports, Short Notes, Comments, and Working Papers

Available at <https://sites.google.com/site/williamdnordhaus/>.

JOURNAL PUBLICATIONS:

“The Optimal Rate and Direction of Technological Change”, Karl Shell, ed., *Essays on the Theory of Optimal Economic Growth*, M.I.T. Press, 1967.

“Balanced Growth –A Razor's Edge?” *International Economic Review*, Volume 8, No. 3, October 1967, (with George Akerlof).

“An Economic Theory of Technological Change,” *American Economic Review*, Volume 59, May 1969, [click here](#).

“Recent Developments in Price Dynamics,” O. Eckstein, ed., *The Econometrics of Price Determination*, Board of Governors of the Federal Reserve System.

“The Optimal Life of a Patent: Reply,” *American Economic Review*, Volume 62, June 1972, [click here](#).

“Pricing in the Trade Cycle,” *The Economic Journal*, Volume 82, 1972, (with Wynne Godley).

“The Worldwide Wage Explosion,” *Brookings Papers on Economic Activity*, 2:1972.

“The Recent Productivity Slowdown,” *Brookings Papers on Economic Activity*, 3:1972.

“A Skeptical Note on the Theory of Induced Innovation,” *The Quarterly Journal of Economics*, February 1973, [click here](#).

“World Dynamics: Measurement Without Data,” *The Economic Journal*, Volume 83, No. 332, December 1973, [click here](#).

“The Allocation of Energy Resources,” *Brookings Papers on Economic Activity*, 3:1973, [click here](#).

“The Effects of Inflation on the Distribution of Economic Welfare,” *Journal of Money, Credit and Banking*, Volume 5, No. 1, Part II, 1973.

“Alternatives for Debt Management,” *Issues in Federal Debt Management*, Proceedings of a conference held in New Hampshire, June 1973. Sponsored by Federal Reserve Bank in Boston, Series No. 10 (with Henry C. Wallich).

“Resources as a Constraint on Growth,” *American Economic Review*, Volume 64, No. 2, 1974.

“The Falling Share of Profits,” *Brookings Papers on Economic Activity*, 1:1974.

“A Technique for Decomposing Inflation,” *Volume on Income and Wealth, 1974*, (with John Shoven).

“Energy in the Economic Report,” *The American Economic Review*, Volume 64, No. 4, September 1974.

“The Political Business Cycle,” *Review of Economic Studies*, April 1975.

“Inflation Theory and Policy,” *American Economic Review*, May 1976.

“Energy and Economic Growth,” in J.C. Hurewitz, ed., *Oil, the Arab-Israeli Dispute, and the Industrial World*, Westview Press, Boulder, Colorado, 1976.

“Economic Growth and Climate: The Case of Carbon Dioxide,” *The American Economic Review*, May 1977, [click here](#).

“The Role of Research in Economic Growth,” in American Association for the Advancement of Science, D. I. Phillips, C. C. Cleare, and M. Patterson, Eds., *Research and Development in the Federal Budget*, American Association for the Advancement of Science, November 1977, pp. 19-32.

“Welfare Measures for Regional Policies,” *Explorations in Economic Research*, Volume 4, Number 3, Summer 1977.

“The Demand for Energy: An International Perspective,” in William Nordhaus, ed., Chapter 13, *International Studies of the Demand for Energy*, North-Holland Publishing Company, 1977.

Energy Modeling for an Uncertain Future: Report of the Modeling Resource Group of the Committee on Nuclear and Alternative Energy Systems, National Academy of Sciences Press, 1978, contribution to Chapter IV and Appendix F, with co-authors.

“Energy Policy: Alternative Strategies for Consumer Countries,” in Ragaei El Mallakh and Dorothea H. El Mallakh, *New Policy Imperatives for Energy Producers*, Proceedings of the Sixth International Conference, Boulder, Colorado, 1980.

“Policy Responses to the Productivity Slowdown,” in Federal Reserve Bank of Boston, *Conference on Productivity*, June 1980.

“The Energy Crisis and Macroeconomic Policy,” *The Energy Journal*, vol. I, No. 1, 1980.

“The Interaction Between Oil and the Economy in Industrial Countries,” *Brookings Papers on Economic Activity*, 2:1980.

“Tax-Based Incomes Policies: A Better Mousetrap?” in M.P. Clandon and R.R. Cornwall, *An Incomes Policy for the United States: New Approaches*, Martinus Mijhoff, Boston, 1981.

“Economic Policy in the Face of Declining Productivity Growth,” *European Economic Review*, 1982.

“Macroconfusion: The Dilemmas of Economic Policy,” in J. Tobin, ed., *Essays in Honor of Arthur Okun*, Brookings, 1983.

“How Fast Should We Graze the Global Commons?” *American Economic Review*, Volume 72, 2, May 1982, [click here](#).

“A Review of Estimates of Future Carbon Dioxide Emissions,” with Jesse Ausubel, in National Research Council-National Academy of Sciences, *Changing Climate*, National Academy Press, 1983.

“Future Carbon Dioxide Emissions from Fossil Fuels,” with Gary Yohe, in National Research Council-National Academy of Sciences, *Changing Climate*, National Academy Press, 1983.

“Reflections on Monetarism, Stagnation and Other North American Exports”, *International Social Science Journal*, Vol. XXXV, No. 3, The World Economy: Theory and Reality, 1983.

“Induced Technical Change: A Programming Approach”, with Ludo Van der Heyden, in Sam H. Schurr, Sidney Sonenblum and David O. Wood, eds., *Energy, Productivity and Economic Growth*, Oelgeschlager, Gunn & Hain, 1983.

“Reaganomics and Economic Growth: A Summing Up,” in Charles R. Hulten and Isabel V. Sawhill, *The Legacy of Reaganomics: Prospects for Long-Term Growth*, Urban Institute Press, Washington, 1984.

“Identifying Winners and Losers,” in National Research Council, *The Race for the New Frontier: International Competition in Advanced Technology– Decisions for America*, National Academy Press/Simon & Schuster, 1984.

“Comments on ‘The Causes of Inflation,’” in *Price Stability and Public Policy*, A Symposium Sponsored by the Federal Reserve Bank of Kansas City, August 1984.

“Discussion of the Current State of Macroeconomic Theory,” *American Economic Review*, May 1984.

“The Value of Information,” in Richard Krasnow, ed., *Policy Aspects of Climate Forecasting*, Resources for the Future, Washington, 1986, pp. 129-133.

“CO2 Forecasting and Control: A Mathematical Programming Approach,” with T. A. Daly, N. Goto, and R. F. Kosobud, in John Weyant, ed., *The Energy Industries in Transition, Part I*, International Association of Energy Economists, Washington, D.C., 1984, pp. 547-561.

“Resources, Technology, and Development: Will the Table Be Bare When Poor Countries Get There?” *The Indian Economic Review*, July-December 1986, pp. 81-94.

“Introduction,” in William D. Nordhaus and Andrew John, eds., *The Share Economy: A Symposium*, editor, with Andrew John, published by *The Journal of Comparative Economics*, vol. 10, 1986.

“Can the Share Economy Cure Our Macroeconomic Woes? Probably Not,” in William D. Nordhaus and Andrew John, eds., *The Share Economy: A Symposium*, editor, with Andrew John, published by *The Journal of Comparative Economics*, vol. 10, 1986.

“The Council of Economic Advisers: Conscience or Advocate?” *Carnegie-Rochester Conference Series on Public Policy*, vol. 25, North Holland, 1986, pp. 265-277.

“Forecasting Efficiency: Concepts and Applications,” *Review of Economics and Statistics*, vol. 69, No. 4, 1987, pp. 667-674.

“Comment on ‘Regulatory Reform and OSHA Policy,’” with Robert Litan, *Journal of Policy Analysis and Management*, Vol. 5, No. 3, 1986.

“Can the Share Economy Conquer Stagflation?” *Quarterly Journal of Economics*, February 1988, pp. 201-217, [click here](#).

“Alternative Approaches to Political Business Cycle,” *Brookings Papers on Economic Activity*, 1989:2.

“Patents: Recent Trends and Puzzles: Comment,” in *Brookings Papers on Economic Activity*, Microeconomics, 1989.

“Ten Years of Mrs. T.: Comment,” *NBER Macroeconomics Annual 1989*, MIT Press.

“Soviet Economic Reform: The Longest Road,” *Brookings Papers on Economic Activity*, 1990:1.

“Economic Growth, Investment, and Technological Change,” in Peter Diamond, *Essays in Honor of Robert Solow*, MIT Press, 1990.

“Risk Analysis: Applications to University Finances,” in Richard Anderson, ed, *The Financing of Higher Education*, Joffrey, 1990.

“Slowing the Greenhouse Express: The Economics of Greenhouse Warming,” in Henry Aaron, ed, *Setting National Priorities*, Brookings, Washington, D. C., 1990.

“A General Equilibrium Model of Policies to Slow Global Warming,” in David Wood, ed, *Economic Models of Energy and Environment*, Proceedings of a Workshop, Washington, D. C., October 1990.

“A Sketch of the Economics of the Greenhouse Effect,” *American Economic Review*, May 1991.

“To Slow or Not to Slow: The Economics of the Greenhouse Effect,” *The Economic Journal*, July 1991, vol. 101, pp. 920-937.

“The Cost of Slowing Climate Change: A Survey,” *The Energy Journal*, vol. 12, No. 1, Spring 1991 pp. 37-6

“Economic Approaches to Greenhouse Warming,” in Rudiger Dornbusch and James M. Poterba, *Global Warming: Economic Policy Response*, MIT Press, 1991, pp. 33-66.

“Economic Policy in the Face of Global Warming,” in J. W. Tester, D. O. Wood, and N. A. Ferrari, *Energy and the Environment in the 21st Century*, MIT Press, 1991.

“The Soviet Economic Crisis: Steps to Avert Collapse,” (joint with the Chairmen of the Study Groups), IIASA, Executive Report number 19, February 1991 and in Merton J. Peck and Thomas J. Richardson, *What Is to Be Done? Proposals for the Soviet Transition to the Market*, Yale University Press, 1991.

“Stabilizing the Soviet Economy,” in Merton J. Peck and Thomas J. Richardson, *What Is to Be Done? Proposals for the Soviet Transition to the Market*, Yale University Press, 1991.

“Do Borders Matter? Soviet Economic Reform After the Coup” joint with Merton J. Peck and Thomas J. Richardson, in *Brookings Papers on Economic Activity*, 1991:2.

“The United States,” in John Llewellyn and Stephen J. Potter, editors, *Economic Policies for the 1990s*, Blackwell, Oxford, 1991.

“Government Policy to Promote Economic Growth,” in William C. Brainard, William D. Nordhaus, and Harold W. Watts, editors, *Money, Macroeconomics, and Economic Policy: Essays in Honor of James Tobin*, MIT Press, Cambridge, Massachusetts, 1991.

“The Ecology of Markets,” *Proceedings of the National Academy of Sciences*, vol. 89, February 1992, pp. 843-850, [click here](#).

“An Optimal Transition Path for Controlling Greenhouse Gases,” *Science*, vol. 258, November 20, 1992, pp. 1315-1319.

“Climate and Economic Development: Climates Past and Climate Change Future,” *Proceedings of the World Bank Annual Conference on Development Economics: 1993*, 1994, pp. 355-376.

“Lethal Model II: The Limits to Growth Revisited,” *Brookings Papers on Economic Activity*, 1992:2.

“Rolling the 'DICE': An Optimal Transition Path for Controlling Greenhouse Gases,” *Resource and Energy Economics*, vol. 15, 1993, pp. 27-50.

“Optimal Greenhouse-Gas Reductions and Tax Policy in the ‘DICE’ Model,” *American Economic Review*, May 1993, vol. 83, pp. 313-317.

“Reflections on the Economics of Climate Change,” *Journal of Economic Perspectives*, vol. 7, issue 4, Autumn 1993, pp. 11 - 25.

“Expert Opinion on Climatic Change,” *American Scientist*, January-February 1994, vol. 82, pp. 45-51.

. “The Impact of Global Warming on Agriculture: A Ricardian Approach,” with Robert Mendelsohn and Dai Gee Shaw, *American Economic Review*, September 1994, vol. 84, No. 4, pp. 753-771.

“Policy Games: Coordination and Independence in Monetary and Fiscal Policies,” *Brookings Papers on Economic Activity*, 1994:2, pp. 139-216.

“The Ghosts of Climates Past and the Specters of Climate Change Future,” *Energy Policy*, Vol. 23, No. 4/5, 1995, pp. 269-282.

“Do Real Output and Real Wage Measures Capture Reality? The History of Light Suggests Not,” Robert J. Gordon and Timothy F. Bresnahan, *The Economics of New Goods*, University of Chicago Press for National Bureau of Economic Research, 1997, pp. 29-66.

“A Regional Dynamic General-Equilibrium Model of Alternative Climate-Change Strategies,” with Zili Yang, *American Economic Review*, vol. 86, No. 4, September 1996, pp. 741-765, [click here](#).

“Climate Impacts on Aggregate Farm Values: Accounting for Adaptation” (with Robert Mendelsohn and DaiGee Shaw), *Agriculture and Forest Meteorology*, vol. 80, 1996.

“Reflections on the Concept of Sustainable Economic Growth,” in *Economic Growth and the Structure of Long-Term Development*, Luigi L. Pasinetti and Robert M. Solow, eds., Oxford University Press, 1994, pp. 309-325.

“The Impact of Global Warming on Agriculture: Reply,” with Robert Mendelsohn, *American Economic Review*, Vol. 86, No. 5, 1996, pp. 1312-1315.

. “What is the Value of Scientific Knowledge? An Application to Global Warming Using the PRICE Model,” with David Popp, *The Energy Journal*, vol. 18, No. 1, 1997, pp. 1-45.

“Beyond the CPI: An Augmented Cost of Living Index (ACOLI),” *Business Economics*, Vol. 32, No. 3, July 1997, pp. 48-54.

. “Traditional Productivity Estimates Are Asleep at the (Technological) Switch,” *Economic Journal*, vol. 107, September 1997, p. 1548-1559.

. “Quality Change in Price Indexes,” *Journal of Economic Perspectives*, Winter, 1997/78.

“Discounting in Economics and Climate Change,” *Climatic Change*, No. 37, 1997, pp. 315-328, [click here](#).

. “Introduction to the Issues,” in William Nordhaus, ed., *An Assessment of the Economics of Climate Change*, editor, with contribution, Resources for the Future Press, Washington, 1998.

“Assessing the Economics of Climate Change: An Introduction,” in William D. Nordhaus, ed., *Economic and Policy Issues in Climate Change*, Resources for the Future Press, Washington, 1998.

“Discounting and Public Policies That Affect the Distant Future,” in Paul Portney and John Weyant, *Discounting and Intergenerational Equity*, Resources for the Future, 1999.

“The Impact of Global Warming on Agriculture: Reply,” with Robert Mendelsohn, *American Economic Review*, December 1999.

“Requiem for Kyoto: An Assessment of the Economics of the Kyoto Protocol,” with Joseph G. Boyer, *The Energy Journal*, Special Issue, 1999, pp. 93-130.

“The Impact of Global Warming on Agriculture: Reply to Roy Darwin,” with Robert Mendelsohn, *American Economic Review*, vol. 89, No. 4, September 1999, pp. 1053-1055.

“Globale Oeffentliche Gueter,” in Wilheom Krull, *Zukunftsstreit, Velbrueck Wissenschaft*, 2000, Goettingen, Germany.

“New Directions in National Economic Accounting,” *American Economic Review*, May 2001.

“The Health of Nations: The Contribution of Improved Health to Living Standards,” in Kevin Murphy and Robert Topel, eds., *The Economic Value of Medical Research*, University of Chicago Press, Chicago, 2002.

“The Economics of the Kyoto-Bonn Accord,” *Science*, November 9, 2001, vol. 294, no. 5545, pp. 1283-1284.

“The Recent Recession, the Current Recovery, and Stock Prices,” *Brookings Papers on Economic Activity*, 2002:1, pp. 199-200, [click here](#).

“Recommendations to the Bureau of Economic Analysis on Improving the National Economic Accounts,” *Survey of Current Business*, May 2002.

“Productivity Growth and the New Economy,” *Brookings Papers on Economic Activity*, 2002:2, [click here](#).

“Modeling Induced Innovation in Climate-Change Policy,” in *Induced Innovation and Climate Change: Collected Essays*, ed. Arnulf Gruebler, Nebojsa Nakicenovic, and William Nordhaus, Resources for the Future Press, Washington, D.C., 2002. For a preprint, [click here](#)

“The Economic Implications of a War in Iraq.” A short version was published in *The New York Review of Books* while the full version was published by the American Academy of Arts and Sciences, 2002. For the full publication (500 KB), [click here](#).

“Abrupt Climate Change,” with R. B. Alley, J. Marotzke, J. T. Overpeck, D. M. Peteet, R. A. Pielke Jr., R. T. Pierrehumbert, P. B. Rhines, T. F. Stocker, L. D. Talley, J. M. Wallace, *Science*, March 28, 2003, pp. 205-210, [click here](#) .

“Irving Fisher and the Health of Nations,” *American Journal of Sociology and Economics*, January 2005, vol. 64, no. 1, pp. 367-392, [click here](#).

. “Principles of National Accounting for Non-Market Accounts,” *Architecture for the National Accounts*, eds., Dale Jorgenson, J. Steven Landefeld, and William Nordhaus, Chicago University Press, 2006. For a preprint, [click here](#).

“Geography and Macroeconomics: New Data and New Findings,” *Proceedings of the National Academy of Sciences (US)*, March 7, 2006, vol. 103, no. 10, 3510-3517, open access at <http://www.pnas.org/cgi/content/full/103/10/3510> .

“Electoral Victory and Statistical Defeat: Economics, Politics, and the 2004 Election,” *Quarterly Journal of Political Science*, vol. 1, issue 3, 2006, pp. 313-322, [click here](#).

“Alternative Measures of Output in Global Economic-Environmental Models: Purchasing Power Parity or Market Exchange Rates?” *Energy Economics*, 2007, no 3, [click here](#).

“After Kyoto: Alternative Mechanisms to Control Global Warming,” *American Economic Review*, vol. 96, no. 2, May 2006, pp. 31-34, [click here](#).

“Paul Samuelson and Global Public Goods,” in Michael Szenberg, Lall Ramrattan, and Aron Gottesman, eds., *Samuelsonian Economics*, Oxford University Press, Oxford, UK, 2006, pp. 88-98. [For the prepublication version, click here.](#)

“A Review of the *Stern Review* on the Economics of Global Warming,” *Journal of Economic Literature*, 2007. [Click here](#) for the study.

“Two Centuries of Productivity Growth in Computing,” *Journal of Economic History*, March 2007, [click here](#).

“To Tax or Not to Tax: The Case for a Carbon Tax,” *Review of Environmental Economics and Policy*, 2007, for a preprint, [click here](#).

Issues in non-market accounting: Pollution accounting in theory and practice,” in *Measuring Capital – Beyond the Traditional Measures*, Proceedings of the Seminar Session of the 2007 Conference of European Statisticians, United Nations, New York and Geneva, 2008, pp. 25-36, available [click here](#).

“Who’s Afraid of a Big Bad Oil Shock?” *Brookings Papers on Economic Activity*, 2007:2. For a prepublication version, [click here](#).

“Critical Assumptions in the Stern Review on Climate Change,” *Science*, 13 July 2007, Vol. 317. no. 5835, pp. 201–202, [click here](#).

“Magnitude and direction of technological transfers for mitigating GHG emissions,” with Zili Yang, *Energy Economics*, Vol. 28, no. 5-6, 2006, pp. 730-741.

“New metrics for environmental economics: Gridded economic data,” *Integrated Assessment*, Vol. 8, No. 1, 2008, [click here](#).

“Measurement of Income with Time Use with Applications to Hedonic Indicators of Happiness and Misery,” in Alan Kreuger, Ed., *National Time Accounting: The Currency of Life*, Chicago University Press, 2009.

“The Impact of Treaty Nonparticipation on the Costs of Slowing Global Warming,” *The Energy Journal*, vol. 31, no. 2, 2009.

“Geography: Graphics and Economics,” with Xi Chen, *The B.E. Journal of Economic Analysis and Policy*, 2008, 9, 2, pp. 1 -12.

“Impact On Economic Growth of Differential Population Growth in An Economy with High Inequality,” *The South African Journal of Economics*, 2008, 76, 2, pp. 314-315.

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