

GEOFFREY SCOTT ROTHWELL

Current Position and Address:

Senior Lecturer, Director of Honors Programs, Department of Economics, and Associate Director of the Public Policy Program, Stanford University, Stanford, California 94305-6072
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Education:

Post-Doctoral Fellow, California Institute of Technology, Pasadena, CA, Aug. 1985-Sept. 1986.

Ph.D., Department of Economics, University of California, Berkeley, Aug. 1985. Dissertation Title: "Electric Utility Power Plant Choice under Investment Regulation." Adviser: Richard Gilbert.

M.A., Jurisprudence and Social Policy, Boalt Hall Law School, UC, Berkeley, May 1984.

M.A., Department of Economics, University of California, Berkeley, Aug. 1981.

B.A., The Evergreen State College, Olympia, Washington, June 1975.

BAC (Baccalauréat A4), Lycée François Premier, Le Havre, France, July 1972.

Graduated from Hanford High School, Richland, Washington, June 1971.

Administrative Positions:

Principal Investigator, Aug 2006-present: Administrator of grants with Battelle Energy Alliance and Department of Energy to Stanford Institute for Economic Policy Research.

Associate Director of the Public Policy Program, 2003-present: Advise majors; Academic Advisor to all honors majors; teach econometrics and honors courses; and review and update program curriculum.

Director of Honors Programs, 1999-present: Act as initial honors thesis adviser for 3 to 5 dozen juniors and seniors in the Department of Economics and the Public Policy Program.

Research Positions:

Senior Research Associate, June 1991-1999; *Research Associate*, Aug. 1986-May 1991. Stanford Institute for Economic Policy Research and Center for Economic Policy Research, Stanford University. See papers listed below.

Research Fellow, Aug. 1985-Sept. 1986. Humanities and Social Science Division and Environmental Quality Laboratory, California Institute of Technology, Pasadena. Post-doctoral fellow in energy economics.

Research Assistant to Professor Richard Gilbert, Feb. 1981-Aug. 1984. The Energy Institute, University of California, Berkeley. Analysis of the adoption of electrical equipment.

Research Assistant to Professor Gerard Debreu, July-Aug. 1982. Center for Research in Management, University of California, Berkeley. Voting model development.

Research Associate, June 1979-Aug. 1980. California Public Utilities Commission. Evaluation of power projects: Sun Desert Nuclear Power Plant and Harry Allen-Warner Valley Energy System.

Teaching Positions:

Senior Lecturer, Sept. 1999-present. Department of Economics and Public Policy Program, Stanford University. Junior Honors Seminar (Economics 198) Spring 2000-2008; Junior Honors Seminar (Public Policy 197) Winter 1996-2008; Honors College for Economics and Public Policy, Sept. 1996-2008; Quantitative Methods and Their Application to Public Policy (Public Policy 105), Spring 1993-2008; Applied Macroeconomic Analysis (Economics 103), Fall 1995, Winter 2001-2002, Winter 2004; Economic Policy Analysis (Economics 101), Winter 1997, Fall 1997, Winter 1998, Winter 2003, Winter 2006-2007; Introduction to Econometrics (Economics 102) Winter 1999-2000; Science and Technology Economics and Policy (STEP) Seminar 1993-2000.

Visiting Professor, Oct. 2006. College of Technology Management, L'Ecole Polytechnique Fédérale de Lausanne (EPFL, Switzerland). PhD Science and Technology Econometrics Workshop.

Visiting Assistant Professor, Acting Assistant Professor, Lecturer. Sept. 1986-1999. Department of Economics and Public Policy Program, Stanford University. Applied Microeconomic Analysis (Economics 104), Fall 1986, Fall 1988-1989, Spring 1989-1990, Winter 1991, Fall 1991-1992, Winter 1992, Spring 1993, Winter 1995, Spring 1998-1999; Energy Economics (Earth Systems 120), Spring 1997-1998; Microeconomic Theory (Economics 51), Spring-Summer-Fall 1988, Fall 1989, Winter 1997; AEA Summer Program Econometrics (Economics 102 and 104) Summer 1995; Antitrust and Regulation (Economics 158) Summer 1987, Spring 1995; Senior Seminar (Public Policy 200), Winter 1993, Fall 1993, Winter 1995; Economics and Public Policy (Economics 150), Summer 1988, 1990; Industrial Organization and Regulation (Economics 260) Spring 1987.

Lecturer, Jan.-Mar. 1996. Department of Economics, University of California, Santa Cruz. Applied Econometric Analysis II (Economics 217) and Third-Year Ph.D. Workshop (Economics 296B).

Instructor, Aug. 1984-May 1985. Department of Economics, University of California, Berkeley. Microeconomic Theory (Economics 101A) and Regulation of Industry (Economics 123).

Professional Service:

Member, July 2006-Dec. 2007. Committee to Review U.S. Department of Energy's Nuclear Energy R&D Program, National Academy of Sciences, National Research Council. Washington, DC.

Chief Economist, Jan. 2003-Dec. 2007. Economic Modeling Working Group of the Generation IV International Forum and Economic Analysis Working Group of the Global Nuclear Energy Partnership (Aug. 2006-Aug. 2007); *Technical Director*, Economics Crosscut Group (Oct. 2001-Dec. 2002); *Member*, Evaluation Methodologies Group, Generation IV Roadmap Committee, Department of Energy, Office of Nuclear Energy (Jan. 2001-Dec. 2002).

Collaborator, July 2006-2008. Armenia Nuclear Power Plant Decommissioning Characterization, International Science and Technology Center. Moscow, Russia.

Affiliated Teaching Faculty, 2001-2005. New Economics School, Moscow, Russia.

Member, Dec. 1999-May 2000. Subcommittee for Long Term Planning for Nuclear Energy Research, Nuclear Energy Research Advisory Committee (NERAC) Department of Energy (DOE-NE).

Chair, Oct. 11-13, 1999. "Competitive Electricity Markets: Pricing, Investment, and Environmental Impacts," Polish Foundation for Energy Efficiency. Krakov, Poland.

Chair, Dec. 1995-Dec. 1997. Committee on Methodology for Nuclear Power Plant Performance and Statistical Analysis, International Atomic Energy Agency, United Nations. Vienna, Austria.

Member, Dec. 1993-June 1996. Committee on Decontamination and Decommissioning of Uranium Enrichment Facilities, National Academy of Sciences, National Research Council. Wash., DC.

Member, Aug. 1992-Aug. 1996. National Academy of Sciences-Polish Academy of Sciences Program in Energy Efficiency and the Environment. Washington, DC, and Warsaw, Poland.

Publications in Refereed Journals:

- “Managing Advanced Technology System Deployment: An Optimal Allocation between R&D and Prototype Funding,” *Economics of Innovation and New Technology* 16(6) (2007): 419-432.
- “IAEA’s DEEP in Carlsbad: Co-Producing Energy and Water in Southern California,” *International Journal of Nuclear Desalination* 2, 3 (2007): 265-279.
- “Is Nuclear Power Competitive Producing Electricity or Hydrogen?” with Kent Williams. *International Journal of Nuclear Hydrogen Production and Applications* 1, 2 (2006): 154-169.
- “Valuation and Optionality of Large Energy Industry Capital Investments,” with Robert Graber, *Cost Engineering* 48, 8 (2006): 20-26.
- “A Real Options Approach to Evaluating New Nuclear Power Plants,” *The Energy Journal* 27, 1 (2006).
- “Cost Contingency as the Standard Deviation of the Cost Estimate,” *Cost Engineering* 47, 7 (2005).
- “Are Light Water Reactor Energy Systems Sustainable?” with Bob van der Zwaan, *Journal of Energy and Development* 24, 1 (Autumn 2003): 65-79.
- “The Risk of Early Retirement of US Nuclear Power Plants under Electricity Deregulation and Carbon Dioxide Reductions,” *The Energy Journal* 21,3 (July 2000): 61-87.
- “Nuclear Power in Asia: Introduction and Conclusions,” *Pacific and Asian Journal of Energy* 8 (1998).
- “Comparing Asian Nuclear Power Plant Performance,” *Pacific and Asian Journal of Energy* 8 (1998).
- “Transaction Costs, Regulation, and Subcontracting at Nuclear Power Plants” with J. Bradford Jensen, *Journal of Economic Behavior and Organization* 36, 3 (1998): 369-81.
- “On the Optimal Lifetime of Nuclear Power Plants,” with John Rust, *Journal of Business and Economic Statistics* (Apr. 1997): 195-208.
- “Organizational Structure and Expected Output for Nuclear Power Plants,” *Review of Economics and Statistics* 78 (Aug. 1996): 482-88.
- “Learning by Accident?: Reductions in the Risk of Unplanned Outages in U.S. Nuclear Power Plants After Three Mile Island,” with Paul David and Roland Maude-Griffin, *Journal of Risk and Uncertainty* 12 (1996): 175-98.
- “Measuring Standardization: An Application to the American and French Nuclear Power Industries” with Paul David, *European Journal of Political Economy* (1996): 291-308.
- “Standardization, Diversity, and Learning: Strategies for the Coevolution of Technology and Industrial Capacity,” with Paul David, *International Journal of Industrial Organization* 14, 2 (1996) 181.
- “Optimal Response to a Shift in Regulatory Regime: The Case of the US Nuclear Power Industry,” with John Rust, *Journal of Applied Econometrics* 10, Special Issue (Dec. 1995): S75-S118.
- “Performance-Based Pricing for Nuclear Power Plants,” with Yeon-Koo Che, *The Energy Journal* (Dec. 1995): 57-77.
- “Electric Utility Demand-Side Management in Poland” with Janusz Sowinski and Don Shirey, *Contemporary Economic Policy* (Jan. 1995): 84-91.
- “The Optimal Time to Decommissioning Commercial Nuclear Reactors,” *The Energy Journal* 12 Special Issue (1991): 305-14.
- “Utilization and Service: Decomposing Nuclear Reactor Capacity Factors,” *Resources and Energy* 12, 3 (1990): 215-29.
- “Subsidy to the Commercial Nuclear Power Industry through the Price-Anderson Liability Limit” with Jeffrey Dubin, *Contemporary Policy Issues* 8, 3 (1990): 73-79.
- “Risk and Reactor Safety Systems Adoption” with Jeffrey Dubin, *Journal of Econometrics* (Oct. 1989).
- “Safety at Nuclear Power Plants: Economic Incentives under the Price-Anderson Act and State Regulatory Commissions” with Jeffrey Dubin, *Social Science Journal*, 26, 3 (1989): 303-11.
- “Stock Market Reaction to Nuclear Reactor Failures,” *Contemporary Policy Issues* (July 1989).

“A Note on Allowed and Realized Rates of Return in the Electric Utility Industry” with Kelly Eastman, *Journal of Industrial Economics*, 36, 1 (Sept. 1987): 105-10.

“Market Coordination in the Uranium Oxide Industry,” *Antitrust Bulletin* (Spring 1980): 233-68.

Publications in Other Journals:

“Triggering Nuclear Development: What Construction Cost Might Trigger New Nuclear Orders in Texas?” *Public Utilities Fortnightly* (May 2004): 46-51.

“All Nuclear Power Plants Are Not Created Equal: Preparing for Competition and Deregulation,” with Jay Maidment, *Public Utilities Fortnightly* (Apr. 1, 1998): 28-33.

“Continued Operation or Closure: the Net Present Value of Nuclear Power Plants,” *The Electricity Journal* (Aug./Sept. 1997): 41-48.

“Financial Assumptions for Evaluating Reactor-Related Options for Managing Plutonium,” *Perspectives in Energy* 4 (1997): 205-12.

“Performance and Reliability at U.S. Nuclear Power Plants,” *Public Utilities Fortnightly* (July 1, 1993).

“Who Pays to Close a Nuke?” with Martin Pasqualetti, *Public Utilities Fortnightly* (Jan. 15, 1993) 35.

“Can Nuclear Power Compete?” *Regulation* (Winter 1992): 66-74.

Foreign Language Publications:

“Determining the Optimal Number of Prototype Systems in Commercializing New Technologies,” in *On the Diffusion of Knowledge following Disasters* (in French), French Ministry of the Environment, Paris, France (2003).

“Market Penetration of Demand Side Management Programs in Poland” (in Polish) with Janusz Sowinski. *Rynek Energii* 22, 3 (June 1999): 14-19.

“A Real Options Approach to Investment Planning in Electricity Supply” (in Polish) with Janusz Sowinski in *Proceedings of the Electricity Markets Conference* (Naleczow, Poland: REE, May 14-15, 1998): 297-304.

“Organization and Productivity at Nuclear Power Plants in the USA” (in Russian), *Foreign Nuclear Power* (May 1997): 3-7.

“U.S. Nuclear Power Policy in the 1990s” (in Russian), *Teploenergetika* (May 1995): 70-76.

Books and Special Issues of Journals:

Electricity Economics: Regulation and Deregulation with T. Gomez (IEEE Press/John Wiley, 2003).

Nuclear Energy in Asia, Editor, Special Issue of the *Pacific and Asian Journal of Energy* 8, 1 (1998).

Nuclear Decommissioning Economics, Co-editor with M.J. Pasqualetti, *The Energy Journal* 12 (1991).

Instructor's Manual to Microeconomics by R. Pindyck and D. Rubinfeld (Macmillan, First Edition, 1989; Second Edition, 1992; Third Edition with G. Davis and V. Suslow, 1995).

Chapters in Books:

“Standardization, Diversity, and Learning in China’s Nuclear Power Program,” *History Matters: Essays on Economic Growth, Technology, and Demographic Change*, Stanford University Press (2003).

“Nuclear Power Economics,” *The Encyclopedia of Energy* (Academic Press/Elsevier Science, 2003).

“History of the Nuclear Power Industry,” *The Oxford Encyclopedia of Economic History* (2003).

“Probability Distributions of Net Present Values of U.S. Nuclear Power Plants,” *The Impact of Competition* (Montgomery Research and PricewaterhouseCoopers, Dec. 2001).

“Profitability Risk Assessment at Nuclear Power Plants under Electricity Deregulation,” *The Impact of Competition* (Montgomery Research and PricewaterhouseCoopers, Oct. 2000).

“U.S. Nuclear Power Policy to the Year 2000,” in G. Hinman and T. Lowinger, eds, *Nuclear Power at the Crossroads* (International Research Center for Energy and Economic Development, 1994).

“An Economic Review of Monitored Retrievable Storage for Spent Nuclear Fuel,” in L.N. Moses and D. Lindstrom, Eds, *Transportation of Hazardous Materials* (Boston: Kluwer, 1993).

Committee Reports:

Cost Estimating Guidelines for Nuclear Energy Systems with the Generation IV International Forum (GIF), Economic Modeling Working Group (Sept. 2003, updated Oct. 2006).

Economics Crosscut Group R&D Scope Report with Economics Crosscut Group. Generation IV Roadmap Committee, Department of Energy (DOE-NE) (Sept. 2002).

Evaluation of Generation IV Systems: Final Screening Methodology with Evaluation Methodologies Group. Generation IV Roadmap Committee, Department of Energy (DOE-NE) (Mar. 2002).

Long-Term Nuclear Research and Development Plan with Subcommittee for Long Term Planning for Nuclear Energy Research, Nuclear Energy Research Advisory Committee (May 2000).

Evaluating and Improving Nuclear Power Plant Operating Performance, Editor, Committee on Methodologies for Nuclear Power Plant Performance Statistics Analysis, International Atomic Energy Agency, Vienna, Austria (July 1999) IAEA TECDOC-1098.

Affordable Cleanup?: Opportunities for Cost Reduction in the Decontamination and Decommissioning of the Nation's Uranium Enrichment Facilities with the Committee on Decontamination and Decommissioning of Uranium Enrichment Facilities, National Research Council, Washington, DC (1996).

Published Conference Proceedings:

“The Costs of Developing and Commercializing the Advanced Recycle Reactor,” with Kent Williams, American Nuclear Society: 2007 Annual Meeting, Boston, MA (June 24-28).

“Costs and Market Structure of the International Nuclear Fuel Cycle,” with Chaim Braun, American Nuclear Society: 2007 Annual Meeting, Boston, MA (June 24-28).

“Can Nuclear Power Compete in the Hydrogen Economy?” with Evelyne Bertel and Kent Williams. *Third Information Exchange Meeting on the Nuclear Production of Hydrogen*, Oarai, Japan. Oct. 5-7, 2005. OECD/NEA.

“Contingency in Levelized Capital Cost Estimation,” *AACE International Annual Meeting Transactions*, June 25-29, 2005.

“Valuation and Optionality of Large Energy Industry Capital Investments” with Robert Graber, *Proceedings of the 2005 Crystal Ball User Conference* (June 13-15, 2005).

“Forecasting Nuclear Power Plant Output and Average Variable Cost under Electric Utility Deregulation,” *Proceedings of the U.S. and International Association of Energy Economists' Annual North American Conference* (Sept. 1997): 507-516.

“Economic Assumptions for Evaluating Reactor-Related Options for Managing Plutonium,” in *International Conference on Military Conversion and Science: Utilization/Disposal of Excess Fissile Weapons Materials*, Como, Italy, Mar. 18-20, 1996 (UNESCO Venice Office, 1997).

“New Nuclear Power Plants Require Utility Structure Changes,” in T. Anderson and C. Forsberg, eds., *Nuclear Power as a Large-Scale Global Energy Option* (Oak Ridge National Laboratory, 1993).

“Scale Economies in Polish Electricity Generation,” with Wojciech Suwala, *Proceedings of the International Association of Energy Economists' Annual North American Conference* (Oct. 1993).

“Comparing Boiling and Pressurized Water Reactor Productivity in the United States: 1975-1990,” in J. Szargut, et al., eds., *Energy Systems and Ecology: Proceedings of an International Conference*. (Krakow, Poland: American Society of Mechanical Engineers, July 5-9, 1993): 497-504.

“Stop and Start: A Duration Analysis of Nuclear Reactor Operations,” *Proceedings of the International Association of Energy Economists' Annual North American Conference* (Oct. 1989): 309-17.

Invited Presentations:

- “Cost and Cost Risk in Evaluating the Nuclear Generation Options in the GCC,” *International Symposium on the Peaceful Applications of Nuclear Technology in the GCC*, King Abdul Aziz University, Jeddah, Saudi Arabia (Apr. 14-16, 2008).
- “International Markets for Nuclear Fuel Services,” London Energy Forum, London Business School, The Royal Society (Oct. 24, 2007).
- “The Option Value of Building a Nuclear Power Plant in Chile in 2020,” Centro Estudios Públicos, Santiago, Chile (Oct. 18, 2007).
- “The Economics of International Supplier State and Recipient State Regimes for Worldwide Nuclear Fuel Services” at “The Role of Nuclear Power in Global and Domestic Energy Policy,” Howard Baker Center for Public Policy, Washington, DC (Oct. 3-4, 2007).
- “The Hydrogen Economy and Nuclear Power,” Stanford Institute for Economic Policy Research, “Prosperity Despite Expensive Oil: Energy Solutions for the World” (Apr. 21, 2006)
- “Framework for Assessing Spillovers among Multiple Nuclear Energy System R&D Programs,” Chair in Economics and Management of Innovation (CEMI), L’Ecole Polytechnique Fédérale de Lausanne (EPFL, Switzerland) (Dec. 2005).
- “Can the Modular Helium Reactor Compete in the Hydrogen Economy?” presented at L’Ecole Polytechnique Fédérale de Lausanne (EPFL, Switzerland) (June 9, 2005).
- “Optimal R&D Funding Allocation under Dynamic Increasing Returns,” presented at L’Ecole Polytechnique Fédérale de Lausanne (EPFL, Switzerland) (Nov. 16, 2004).
- “Nuclear Options: Building Nuclear Power Plants under Revenue Uncertainty,” presented at the *North American Natural Gas Summit*, Houston, Texas (Nov. 19-20, 2003).
- “Why Regulation?: Market Power and the Objectives of Regulation,” Opening Address, *Training Program for the Russian Federal Energy Commission*, Moscow, Russia (Oct. 12, 2003).
- “Lessons from the California Crisis for the Restructuring of Russia’s UES,” *Russian Economic and Political Institutions in Transition*, New Economics School, Moscow, Russia (Oct 2-5, 2002).
- “Sales of US Nuclear Power Plants under Electricity Deregulation,” presented at American Nuclear Society, 2001 Winter Meeting, Reno, Nevada (Nov. 11-15).
- “Nuclear Power Plant Operating Costs: What’s Next?” presented at Nuclear Non-Operating Owners Group, Albuquerque, New Mexico (Oct. 17-19, 2001) and at American Nuclear Society’s 2000 Annual Meeting, San Diego, California (June 4-8, 2000).
- “Russia’s Spent Nuclear Fuel Legacy and Proposals to Address It,” presented at *Environment and Nuclear Policy in the Former USSR*, Stanford University (May 4, 2001).
- “Analysis of NPP Performance Indicators for Performance Enhancement,” presented at the NEI Business Forum and the EUCG Spring Meeting, Orlando, Florida (Mar. 26-27, 2001).
- “Choosing the Optimal Number of New Nuclear Power Technologies,” presented at *New Energy Technologies: A Policy Framework for Micro-Nuclear Technology*, James A. Baker III Institute for Public Policy, Rice University (Mar. 19-20, 2001).
- “Net Present Value Distributions of US Nuclear Power Plants,” presented at Society for Risk Analysis Annual Meeting, Arlington, Virginia (Dec. 3-8, 2000).
- “The Special Issue of Nuclear Energy in Asia,” *Nuclear Cooperation Meeting on Spent Fuel Storage and Disposal*, Lawrence Livermore National Laboratory, Las Vegas, NV (Mar. 6-8, 2000).
- “Deregulating and Restructuring the Nuclear Power Industry: Changing Operating Assumptions,” presented at *Global ’99: International Conference on Future Nuclear Systems*, American Nuclear Society, Jackson Hole, Wyoming (Aug. 31, 1999).

- “Nuclear Power Plant Performance Differences,” presented in “Existing Nuclear Power Plants Were Not Created Equal,” Department of Energy and National Association of Regulatory Utility Commissioners' *National Electricity Forum*, World Energy Council, Houston, TX (Sept 18, 1998).
- “Nuclear Power Economics and Finance,” a series of lectures at the *Eastern European Training Workshop on Analysis of Economic and Financial Aspects of Nuclear Power Programmes*, sponsored by the International Atomic Energy Agency, Zagreb, Croatia (May 11-14, 1998).
- “Making the Decision to Close a Nuclear Power Plant,” at *Nuclear Power in the Competitive Era*, sponsored by Infocast, Washington, DC (Jan. 30-31, 1997).
- “The Tale of Two Closures: Comparing the Decisions to Close Trojan and Yankee Rowe,” at *Nuclear Decommissioning Trusts*, International Business Communications, NY, NY (Nov. 18-19, 1996).
- “Measuring Nuclear Power Plant Productivity, Availability, and Reliability,” at *Specialists Meeting on Methodology for Nuclear Power Plant Performance and Statistical Analysis*, sponsored by the International Atomic Energy Agency, Vienna, Austria (Sept 30-Oct 2, 1996).
- “Subsidies in the Nuclear Power Industry,” at *Evaluating Energy Subsidies*, sponsored by the Department of Energy, Washington, DC (Sept 6-7, 1995).
- “Performance-Based Measures of Nuclear Reactor Standardization,” presented at the *Third Meeting on Large Technical Systems*, Sydney, Australia (July 1991).

Reports:

- “Texas Energy Price Variance,” Texas Institute Advanced Chemical Technology and the U.S. Department of Energy (Nov. 2004).
- “The Economic Feasibility of Small Modular Reactors,” with Jeffrey Stewart and Alan Lamont, Lawrence Livermore National Laboratory (Nov. 2001).
- “Energy, Environment, and Sustainable Trade: A Review of Modeling Efforts,” *Trade, Environment, and Sustainable Development in the Pacific Basin* (OECD, Paris, 1995).
- “A Review of Utility Investment Decision-Making in the National Energy Modeling System,” prepared for the Energy Information Administration, Office of Integrated Analysis and Forecasting (Jan. 1994).
- “Independent Expert Review of the EIA's Financial Statistics of Selected Investor-Owned Electric Utilities,” Energy Information Administration, Office of Statistical Standards (Apr. 1992).
- “Independent Expert Review of the EIA's Uranium Data Collection and Publication Effort,” prepared for the Energy Information Administration, Office of Statistical Standards (Aug. 1990).

Working Papers and Selected Conference Papers:

- “Chilean Nuclear Power in 2020?: The Costs and Benefits of Building a First Nuclear Power Plant,” Centro de Estudios Públicos, Santiago, Chile. (Jan. 2008).
- “International Uranium Enrichment Supply,” with Chaim Braun, Stanford Institute for Economic Policy Research (Jan. 2008).
- “Why is Brazil Enriching Uranium?” with Belkis Cabrera-Palmer, Stanford Institute for Economic Policy Research (Dec. 2007).
- “The Cost Structure and Ownership Implications of the International Light Water Fuel Fabrication Industry,” Stanford Institute for Economic Policy Research (June 2007).
- “Allocating Costs for Non-Electricity Products from Generation IV Nuclear Energy Systems,” with E. Bertel and Kiyoshi Ono, “Non-Electricity Applications of Nuclear Power: Seawater Desalination, Hydrogen Production and other Industrial Applications,” International Atomic Energy Agency, Oarai, Japan (16-19 Apr. 2007).
- “Can the Modular Helium Reactor Compete in the Hydrogen Economy?” Stanford Institute for Economic Policy Research (June 2005).

- “Restoring the Nuclear Option in the U.S.: A Real Options Approach” with Robert Graber, presented at the U.S. Association of Energy Economists/International Association of Energy Economists North American Conference, Denver, CO (Sept. 18-21, 2005).
- “An Economic Analysis of Contingency in Cost Estimation,” Department of Economics, Stanford University (Jan. 2004).
- “Economics of Generation IV Small Nuclear Reactors,” with J. Stewart, A. Lamont, and C. Smith, (2002) UCRL-ID-148437.
- “Does the US Subsidize Nuclear Power Insurance?” Policy Brief, Stanford Institute for Economic Policy Research (Jan. 2002).
- “US Nuclear Power Plant Performance: Forecasting Productivity, Availability, and Reliability,” Department of Economics, Stanford University (Mar.1998).
- “A Data Envelopment Analysis of Efficiency and Pollution for Polish Power Plants” with William Bowen, presented at the American Society for Public Administration (July 29-31, 1997).
- “The Cost of Disposing of High-Level Radioactive Waste,” Stanford University (Jan. 1993).
- “European Nuclear Power Plants and Their Less Reliable American Cousins: International Differences in the Distributions of Reactor Operating Spell Durations,” with Paul David, Roland Maude-Griffin, and Roland Sturm, Center for Economic Policy Research Working Paper No. 273 (Nov. 1991).
- “Coal-Electric Scale Economies and Construction Lead Times,” Center for Economic Policy Research Working Paper No. 198 (Apr. 1990).
- “Steam-Electric Scale Economies and Construction Lead Times,” California Institute of Technology, Social Science Working Paper No. 627 (Dec.1986).
- “Electric Utility Investment under Power Plant Cost Uncertainty,” winner of the Western Economics Association's Graduate Student Paper Competition (July 1984).

Book Reviews:

- Review of S.M. Cohen, *Too Cheap to Meter: An Economic and Philosophical Analysis of the Nuclear Dream* (1997) in *Journal of Economic Literature* (Mar. 1999) 205-07.
- Review of W.D. Nordhaus, *Managing the Global Commons: The Economics of Climate Change* (1994) in *Journal of Economic Literature* (June 1996): 821-22.

Co-Editor: *International Journal of Nuclear Governance, Economy and Ecology* (2006-present).

Associate Editor/Editorial Board: *Contemporary Economic Policy, Journal of Energy Markets* (2007+), *Journal of Natural Resources Policy Research* (2007+), *Resources and Energy Economics* (1992-1998), *Scientific Journals International* (2007+), *The Energy Journal* (2006+), *The Utilities Project*.

Referee: *Journal of Development Economics, Economics of Innovation and New Technology, Economic Systems, The Energy Journal, Energy Policy, Journal of Environmental Economics and Management, European Journal of Political Economy, Journal of Industrial Economics, Journal of Policy Analysis and Management, Information Economics and Policy, International Review of Law and Economics, Journal of the Japanese and International Economies, Journal of Economic Literature, The RAND Journal of Economics, Energy Studies Review, Southern Economics Journal, and Review of Economics and Statistics* and for CRC Press, *Energy Information Administration, Department of Energy-Nuclear Energy Research Initiative, National Science Foundation, Princeton University Press, Stanford University Press, and The World Bank*.

Letters and Op Eds: *Barron's, Christian Science Monitor, Engineering News Record, Los Angeles Times, New York Times, San Francisco Chronicle, San Jose Mercury News, Scientific American, Wall Street Journal, and Washington Times*.