

## **RESUME**

July 2016

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### ***Education***

B.A., Economics, George Washington University, 1950  
M.A., Economics, Graduate Faculty, New School for Social Research, 1952

### ***Principal Positions***

- 1966-                 Research staff, Resources for the Future (Director, Energy and Materials  
                                  Division, 1984-1988)
- 1983-1993            Professorial Lecturer, international economics, Johns Hopkins University  
                                  School of Advanced International Studies (part-time)
- 1957-1966            Economist, National Planning Association, Washington, DC
- 1950-1957            Trainee, foreign trade firm (1950-52); research assistant with several economic research  
                                  organizations (1952-55); active duty, U.S. Army (1955-57)

### ***Selected Publications***

#### ***Books***

*Unconventional Fossil-Based Fuels: Economic and Environmental Trade-Offs* (co-author, with Michael Toman, *et al.*), RAND Corporation, Technical Report, 2008.

*Assessing Surprises and Nonlinearities in Greenhouse Warming* (editor and contributor, with Michael Toman) (Resources for the Future, 1993).

*Global Development and the Environment: Perspectives on Sustainability* (editor and contributor) (Resources for the Future, 1992).

*Greenhouse Warming: Abatement and Adaptation* (contributor and editor, with Norman J. Rosenberg, William E. Easterling III, and Pierre R. Crosson) (Resources for the Future, 1989).

*Energy Today and Tomorrow: Living With Uncertainty* (with H. H. Landsberg and H. C. Morton) (Prentice-Hall/Resources for the Future, 1983).

*Energy in America's Future: The Choices Before Us* (with Sam H. Schurr, Harry Perry, *et al.*) (Johns Hopkins/Resources for the Future, 1979).

*How Industrial Societies Use Energy: A Comparative Analysis* (with Joy Dunkerley and Jack Alterman) (Johns Hopkins/Resources for the Future, 1977).

### ***Recent Other Publications***

“Putting a Carbon Charge on Federal Coal: Legal and Economic Issues” (with Alan Krupnick, Nathan Richardson, and Katrina McLaughlin), *Environmental Law Reporter* (July 2016). (An updated version of RFF Discussion Paper 15-13, March 2015.)

“Climate Policy Requires Markets – and Equity,” *The Environmental Forum* (Environmental Law Institute), March-April 2016.

“Global Benefit Cost Analysis in US Climate Policy: Heresy or Evolutionary Logic?” *Resources*, No. 191, Resources for the Future, 2016.

“Adaptation: An Essential, but Lagging, Part of Global Warming Policy,” *Resources*, No. 190, Resources for the Future, 2015.

“From Rio to Kyoto to Paris: Hopes and Realities for Global Warming Policy,” *USAEE Energy Dialogue*, Vol. 22, No. 3 (Oct. 2014).

(with Roger Sedjo) “Indispenza energetica: cosa significa realmente?” *Energia* (XXXV/N.1, 2014) (Italian translation of RFF Common Resources blog “Energy Independence – What Then?” 2013).

“The World Development Report Over the Years,” *Environment*, May-June 2014.

“Reflections on the Oil Shock of 40 Years Ago,” *Resources*, No. 186, Resources for the Future, 2014.

“More (Climate-Friendly) Nuclear Power? The Economic Challenge,” *IAEE Energy Forum*, Fourth Quarter 2013.

“The International Monetary Fund Confronts Global Energy Subsidies,” *Environment*, September/October 2013.

“The Controversy Over US Coal Exports,” *Resources*, No. 183, Resources for the Future, 2013.

*The Supply Chain and Industrial Organization of Rare Earth Materials: Implications for the U.S. Wind Energy Sector* (with Jih-Shyh Shih et al.) RFF Report, Resources for the Future, February 2012.

*Meeting the World’s Natural Resource Needs: Confrontation (or Worse) Ahead?* Issue Brief 11-07, Resources for the Future, June 2011.

Review of T. H. Moran, “China’s Strategy to Secure Natural Resources: Risks, Dangers, and Opportunities,” in *Environment*, January-February, 2011.

“A Resource War Resurgence? Divining Facts and Fears in China’s Energy Strategy,” *Resources*, Summer 2010.

“The Prospective Role of Unconventional Fuels,” Background Paper, RFF/NEPI Project on “Toward a New National Energy Policy,” June 2010.

“What Role for ‘Synthetic’ Liquid Fuels? A Look at Canadian Oil Sands,” Weekly Policy Commentary, Oct. 20, 2008, Resources for the Future.

“Editors’ Picks” comment (in *Environment*, November/December 2008) on “Mitigating Climate Change: Who Pays? Who Benefits?” by E. A. Posner and C. R. Sunstein, *Regulation*, Spring 2008.

“Incorporating Resource and Environmental Change in a Nation’s Economic Accounts: Roles for Earth Science Applications,” Issue Brief IB 08-04, Resources for the Future, Nov. 2008.

Comment on “Ethanol: Train Wreck Ahead,” *Issues in Science and Technology*, Winter 2008.

“Whistling in the Wind? Toward a Realistic Pursuit of Renewable Energy,” *Brookings Review*, Spring 2002.

***Selected Recent Presentations***

Lecture, “Economics of Climate Change Policy,” JHU/MC Campus/OLLI Program, 5/11/16.

Commencement Speaker, College of Earth and Mineral Sciences, Pennsylvania State University, May 8, 2015

Panelist, RFF Seminar “Natural Resources, Ecology, and Public Policy: Time for Some Unconventional Ideas?” May 28, 2014.

“Energy and Carbon Taxation,” OLLI Program, American University, April 7, 2014.

Panelist, program on “In Search of Arctic Energy,” Woodrow Wilson International Center, Jan. 29, 2014.

Panelist, “Alternative Energy,” Wintergreen Nature Foundation “Living With the Planet” Lecture Series, March 14, 2009, Nellysford VA.

Discussant, RFF Symposium “Energy Policy Challenges: Is the Past Prologue?” Oct. 29, 2008.

Presentation, “Facing Up to U.S. Energy-Policy Dilemmas,” Osher Lifelong Learning Institute, American University, Jan. 16, 2008.

Presentation, “Energy Independence: Facts and Fantasies,” Arlington Learning in Retirement Institute, George Mason University, Arlington VA, Nov 1, 2006.

Presentation, “Oil Import Dependence and National Security,” OASIS, Washington DC, April 6, 2006.

Co-Organizer, Workshop on “Higher Oil and Natural Gas Prices: Impact on Power Generation, Transportation Choices, and CO<sub>2</sub> Emissions,” RFF-IFRI, Paris, March 30-31, 2006.

***Selected Professional Activities***

Judge, US Department of Defense Environmental Awards 2016.

Winner, The 2014 USAEE Adelman-Frankel Award “For Unique and Innovating Contributions to the Field of Energy Economics, United States Association for Energy Economics.

Member, Committee on Earth Resources, National Research Council, 1994-97.

Presented a series of lectures in Argentina sponsored by U.S. Information Agency, 1995

Organizer, National Research Council Workshop on “Valuing Natural Capital in Planning for Sustainable Development,” Woods Hole, MA, July 1993.

Organizer, sessions on natural resources, American Economic Association meeting, Washington, DC, December 1990.

Organizer, Symposium on Climate Change, AAAS Annual Meeting, New Orleans, LA, February 1990.

Contributing Editor, *Environment* magazine, 1979-.

Member, Editorial Committee, *Annual Review of Energy*, 1975-1986.