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Joel S. Yudken, Ph.D. is Principal and Founder of *High Road Strategies, LLC* in Arlington, VA, an economic policy research, analysis, assessment, and design consultancy since 2006, with a focus on the intersection of manufacturing, energy, economic and workforce development issues. Major clients have included:

- Bipartisan Policy Center
- Ohio University Voinovich School of Leadership & Public Affairs/Ohio Manufacturers' Association
- AFL-CIO Industrial Union Council
- Environmental Defense Fund
- BlueGreen Alliance
- Energy Equipment and Infrastructure Alliance/IHS Economics.
- Environmental Entrepreneurs/Natural Resources Defense Council
- Manufacturing Skill Standards Council
- American Council for an Energy-Efficient Economy



PROFESSIONAL EXPERIENCE

In a career spanning four decades, Dr. Yudken has held a wide range of professional positions in labor, government, academia, industry, and public interest organizations. His background and training in engineering, political, and socio-economic systems enables him to apply a range of qualitative and quantitative research and analytical tools to his work. Experience in government has given him a keen understanding of the legislative process and government institutions, critical to developing pragmatic policy solutions. Recent positions include:

- Sectoral Economist and Technology Policy Analyst, *American Federation of Labor-Congress of Industrial Organizations* (AFL-CIO), and Manufacturing Policy Analyst, *AFL-CIO Industrial Union Council (IUC)* (1998-2005)
- Senior Advisor on Modernization and Workforce Development, *National Institute of Standards and Technology/Manufacturing Extension Partnership* (1997)
- Senior Fellow, *Work & Technology Institute* (1995-1997)
- Professional Staff, *U.S. House of Representatives, Committee on Banking, Housing and Urban Affairs* (1994)
- AAAS Congressional Science & Engineering Fellow, *Office of U.S. Senator Barbara Boxer (D-CA)* (1993)
- Postdoctoral Research Fellow, *Project on Regional & Industrial Economics, Rutgers University* (1992-1993).

Professional activities include membership in the *National Capital Area Chapter-U.S. Association for Energy Economics* and serving on the Public Policy Advisory Committee, *International Economic Development Council*, and, Advisory Board and policy committee of the *Coalition for a Prosperous America*. He formerly served as Chair, Committee on Productivity, Technology and Growth, Labor Research Advisory Council, *U.S. Bureau of Labor Statistics*; Member, Board on Manufacturing and Engineering Design, *National Research Council of the National Academies*; and on the Advisory Panel, *Pew Charitable Trusts' Green Economy Scorecard Project*.

PROJECTS, REPORTS AND PUBLICATIONS

As *High Road Strategies*, Dr. Yudken produced studies and reports on energy alternatives, climate change and manufacturing policies, and on manufacturing competitiveness. These include:

- *Supplying the Unconventional Revolution: Workforce Readiness*. For Energy Equipment and Infrastructure Alliance. Jointly with IHS Economics. June 2015.
- *If It Ain't Broke, Don't Fix It! Potential Impacts of Privatizing the Tennessee Valley Authority*. For Economic Policy Institute. June 5, 2015.
- *The Economic Benefits of Military Biofuels*. For Environmental Entrepreneurs (and Natural Resources Defense Council). November 2012.
- *An Industrial Energy Efficiency Roadmap for Ohio Manufacturers: Potential, Barriers, and Opportunities*. For Ohio University Voinovich School and Ohio Manufacturers' Association. November 2011.
- *Risks and Opportunities for Ohio's Manufacturing Sector in a Carbon-Constrained World*. For Ohio University Voinovich School-Ohio State University report. March 2011.

- *Manufacturing Insecurity, America's Manufacturing Crisis and the Erosion of the U.S. Defense Industrial Base.* For AFL-CIO Industrial Union Council. Washington, DC. April 14, 2010.
- *Climate Change and Energy-Intensive Manufacturing: Impacts and Options* (with Andrea Bassi). For Bipartisan Policy Center/NCEP, June 2009; and two follow-on studies for NCEP, EDF, and AFL-CIO Working for America Institute.

He also has produced numerous other reports, co-authored two books and authored several book chapters, including, for example: *Revitalizing American Manufacturing* (2004, AFL-CIO IUC); *The Internet, Organizational Change and Labor, The Challenge of Virtualization* (with David Jacobs, Routledge, 2003); *MEP Successes: Case Study Series, Workforce Development Cases* (with others staff; MEP, 1998); *The 21st Century Project: Setting a New Course for Science and Technology Policy* (with Gary Chapman, 1993); and *Dismantling the Cold War Economy* (with Ann Markusen, Basic Books, 1992).

In addition, his work has been published in several professional journals and magazines, including *Issues in Science and Technology*, *Sustainability*, *Energy Policy*, *New Labor Forum*, and *World Policy Journal*. Media coverage includes *The New York Times*, *Bloomberg BusinessWeek*, *E&E ClimateWire* and *International Investor*.

LEGISLATIVE AND GOVERNMENT AFFAIRS

As *High Road Strategies*, Dr. Yudken has been cited in Congressional testimony and produced comments on media ownership consolidation to the Federal Communications Commission (FCC) (AFL-CIO Department for Professional Employees, 2006, 2007). Earlier, he represented the AFL-CIO on a Senate Manufacturing Caucus panel chaired by U.S. Senators Hilary Clinton (D-NY) and Lindsay Graham (R-SC) (2005), a U.S. House of Representatives Committee on Small Business roundtable on manufacturing productivity (2004), a labor delegation at the U.N. Framework Convention on Climate Change in The Hague, Netherlands (2000), and OECD Ministerial Conferences on electronic commerce in Ottawa, Canada (1998) and Paris, France (1999). He also drafted legislative proposals on electricity deregulation, analyzed legislation, met and made presentations to Congressional members and staff.

As Congressional staff, he organized hearings and drafted legislation on economic development (U.S. House Banking Committee) and defense conversion; represented U.S. Senator Boxer on task forces and developed policy recommendations incorporated into legislation; drafted legislation implemented by the Clinton Administration establishing the Office of Economic Conversion Information in the Economic Development Administration, which won a 1996 Arthur D. Little Award for Excellence in Economic Development, by the American Economic Development Council.

CONFERENCES AND WORKSHOPS

Dr. Yudken has been an invited speaker and presenter at numerous conferences, forums and workshops throughout the United States and internationally, including in Malaysia, India, South Africa, Europe and Canada. The topics have ranged from energy and manufacturing, climate policy and manufacturing competitiveness, industrial policy, electricity deregulation, economic development and workforce development, science and technology policy, and electronic commerce and employment. In many of these events, was a principal planner, organizer and workshop leader.

EDUCATION

- Ph.D., Technology and Society, Stanford University
- M.S., Engineering-Economic Systems (Dept. of Management Science & Engineering), Stanford University
- Bachelor of Electrical Engineering, Rensselaer Polytechnic Institute

