

BIO: Joel S. Yudken, Ph.D.

Dr. Yudken is Sectoral Economist and Technology Policy Analyst in the Public Policy Department, American Federation of Labor and Congress of Industrial Organizations (AFL-CIO) in Washington, D.C. His work focuses on developing labor-based industrial strategies in response to technological and economic change, with a particular emphasis on the issues of environmental and climate change, electronic commerce and the information technology workforce. In 1999, he was appointed to the National Research Council's Board on Manufacturing and Engineering Design. In the Fall of 1998, he represented the AFL-CIO at the OECD conference on electronic commerce in Ottawa, as an official delegate of the Trade Union Advisory Committee to the OECD. In 1997, he served as Senior Advisor on Modernization and Workforce Development at the National Institute for Standards and Technology's Manufacturing Extension Partnership (MEP), as a designee of the AFL-CIO. At MEP, he worked with the workforce development and evaluation teams on technology, modernization and workforce issues involving small manufacturers, with an emphasis on unionized firms. At the Work and Technology Institute (WTI), in Washington, DC, where he was a Senior Fellow from 1995-1997, Dr. Yudken coordinated a team studying and developing strategies for high performance labor-management networks, and directed WTI's Labor Participation in Workplace Modernization project sponsored by NIST MEP.

Dr. Yudken was formerly Professional Staff Member, Committee on Banking, Finance and Urban Affairs, U.S. House of Representatives, responsible for economic development, defense conversion and technology commercialization issues. In 1993, he was an American Association for the Advancement of Science Congressional Science & Engineering Fellow in the Office of U.S. Senator Barbara Boxer (D-CA). Prior to that, he was a Postdoctoral Research Fellow, Project on Regional and Industrial Economics, Rutgers University, where he coauthored with Ann Markusen *Dismantling the Cold War Economy* (Basic Books, 1992), and a Postdoctoral Fellow in the National Science Foundation Program on Science, Technology and Society. In the late 1980s, he directed, the Association for Computing Machinery-sponsored Project on Funding Policy in Computer Science. From 1979-1986 he served as Director for Programs at the Center for Economic Conversion in California. In earlier years, Dr. Yudken worked as an electronics engineer in the aerospace industry.

Over his career, he has written, spoken and consulted extensively on science, technology and industrial policy, technology and workplace change, economic development, and defense conversion. He is co-author of *Making Changing Happen, Six Cases of Unions and Companies Transforming Their Workplaces* (WTI, 1996) and *Smart Workers, Smart Machines: A Technology Policy for the 21st Century* (WTI, 1996). His articles have appeared in *Issues in Science and Technology*, *WorkingUSA*, *Technology Review*, *Forum for Applied Research and Public Policy*, *World Policy Journal*, *Business and Society Review*, and *The Entrepreneurial Economy*. He holds a Bachelors in electrical engineering from Rensselaer Polytechnic Institute, and a Masters of Science in engineering-economic systems and Ph.D. in technology and society from Stanford University.