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PROFESSIONAL EXPERIENCE

- *Principal and Founder*, High Road Strategies, LLC, Arlington, Virginia, 2006-present.
- *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), Washington, DC, 1997-2005.
- *Senior Advisor on Modernization and Workforce Development*, National Institute of Standards and Technology, Manufacturing Extension Partnership, Gaithersburg, MD, 1996-1997.
- *Senior Fellow*, Work and Technology Institute, Washington, DC, 1995-1997.
- *Professional Staff*, Subcommittee on Economic Growth & Credit Formation, Committee on Banking, Finance & Urban Affairs, U.S. House of Representatives, 1994.
- *Congressional Science and Engineering Fellow*, Office of U.S. Senator Barbara Boxer, sponsored the by American Association for the Advancement of Science (AAAS), 1993.
- *Postdoctoral Research Fellow*, Project on Regional & Industrial Economics, Center for Urban Policy Research, Rutgers University, 1990-1992.
- *National Science Foundation Postdoctoral Fellow*, Sponsored by NSF Program on Science, Technology and Society, Tremont Research Institute, San Francisco, CA, 1989-1990.
- *Director/Principal Investigator*, Project on Funding Policy in Computer Science, sponsored by Association for Computing Machinery, 1986-1990.
- *Director for Programs*, Center for Economic Conversion, Mountain View, CA, 1979-1986.
- *Electronics Engineer*, Lockheed Missiles & Space Co., Sunnyvale, CA.

PROFESSIONAL ACTIVITIES

- Public Policy Advisory Committee, International Economic Development Council, 2009-present.
- Coalition for a Prosperous America Advisory Board, 2009-present.
- Manufacturing and Transportation Working Groups, Apollo Alliance, 2008-present.
- Advisory Panel, Pew Charitable Trusts Green Economy Scorecard Project, 2008-2009.
- Member, Labor and Employment Relations Association (LERA), 2001-present.
- Chair, Committee on Productivity, Technology and Growth, Labor Research Advisory Council, U.S. Department of Labor, Bureau of Labor Statistics, 1999-2005.
- Member, Board on Manufacturing and Engineering Design, National Academies (NAS)/ National Research Council (NRC), 1999-2004.
- Member, NAS/NRC Committee on Future Directions in Manufacturing and Materials Forum planning committee, 2001-2002.
- Benchmarking Steering Committee, National Council for Urban Economic Development, Washington, DC 1995.
- Member, Industrial Competitiveness Task Force, California State Senate's Select Committee on Long Range Policy Planning, 1985.

PROFESSIONAL ACCOMPLISHMENTS**Projects, Reports and Publications**

- Co-author (with Andrea Bassi), "Climate Change and U.S. Competitiveness," *Issues in Science and Technology*, Volume XXVI, Number 1, National Academies (Fall 2009).
- Co-author (with Andrea Bassi), "Potential Challenges Faced by the U.S. Chemicals Industry Under a Carbon Policy," Special Issue "Energy Policy and Sustainability," *Sustainability* 2009 1, 592-611.
- Co-author (with Andrea Bassi, Matthias Ruth). "Climate policy impacts on the competitiveness of energy-intensive manufacturing sectors." *Energy Policy* 37 (2009) 3052-3060.
- Lead on study and principal author, *Climate Change and Energy-Intensive Manufacturing: Impacts and Options* (with Andrea Bassi, Millennium Institute). Report for the National Commission on Energy Policy (NCEP)/Bipartisan Policy Center, June 2009.
- Author, *Assessing the Potential of Information Technology to Enable Economy-Wide Energy Efficient Gains*, for a joint study of the American Council for an Energy-Efficient Economy and AeA Europe, August 2007.
- Author, "Funding An Energy Alternative," (January 18, 2007) and "Investing in America" (November 13, 2006), *TomPaine.com*.
- Co-author (with Bob Baugh), "Is Deindustrialization Inevitable?" *New Labor Forum* 15(2): 55-64, Summer 2006.
- Principal author, AFL-CIO IUC white papers: *Revitalizing American Manufacturing, A State and Local Agenda* and *Revitalizing American Manufacturing*, 2003, 2004.
- Led AFL-CIO IUC Job Export Database Project and principal author, "Ohio Job Exports," and similar reports for Washington State, Wisconsin, Pennsylvania and Minnesota, 2004.
- Co-author, (with David Jacobs), *The Internet, Organizational Change and Labor, The Challenge of Virtualization*, Routledge Press, 2003.
- Helped design, manage, research, and edit Manufacturing Extension Partnership report *MEP Successes: Case Study Series, Workforce Development Case*, September 1998.
- Co-author (with Ann Markusen), *Dismantling the Cold War Economy*, Basic Books, 1992.
- Co-author (with Kenan Patrick Jarboe) "A Time to Get Serious About Workplace Change," *Issues in Science and Technology* (Summer, 1997): 65-71 and *Smart Workers, Smart Machines: A Technology Policy for the 21st Century*. Work & Technology Institute (WTI), 1996.
- Co-author (with Michelle Kaminski, Domenick Bertelli, Melissa Moye) *Making Change Happen: Six Case Studies of Unions and Companies Transforming Their Workplaces*, WTI, 1996.
- Co-author (with Ann Markusen), *Dismantling the Cold War Economy*, Basic Books, 1992.
- Co-author (with Gary Chapman), *The 21st Century Project: Setting a New Course for Science and Technology Policy*, Report of the 21st Century Project, CPSR, 1993.
- Author of eight book chapters and numerous articles appearing in *Issues in Science & Technology*, *Technology Review*, *Forum for Applied Research and Public Policy*, *The New Economy*, *Abacus*, *Business & Society Review*, and *World Policy Journal*, among others.

Legislative and Government Affairs

- Wrote comments for Department for Professional Employees, AFL-CIO to the Federal Communications Commission (FCC) on media ownership consolidation (2006, 2007).
- Represented AFL-CIO on Senate Manufacturing Caucus panel headed by U.S. Senators Hilary Clinton (D-NY) and Lindsay Graham (R-SC), July 27, 2005.
- Represented AFL-CIO on U.S. House of Representatives Committee on Small Business Roundtable, "Productivity: Are We Making As Much Progress As We Think We Are?" chaired by U.S. Representative Donald Manzullo (R-OH), February 4, 2004.
- Drafted legislative proposal for AFL-CIO on electricity deregulation, analyzed legislation, met with Congressional members and staff, and made presentations on the Hill on electricity provisions of energy bills debated in Congress since 1999.
- Wrote comments for AFL-CIO to the Federal Communications Commission (FCC) on newspaper/broadcast cross-ownership (2001, 2002) and media consolidation (2003).
- Organized legislative hearings and helped draft the *Economic Development Reauthorization Act of 1994* (H.R. 2442) to reauthorize the Economic Development Administration, reported by House Banking Committee, passed by U.S. House of Representatives.
- Drafted *Economic Conversion Clearinghouse Act of 1993* (S. 850), to create the Office of Economic Conversion Information (OECI) in the Department of Commerce, subsequently implemented by the Clinton Administration. OECI won a 1996 Arthur D. Little Award for Excellence in Economic Development, by the American Economic Development Council.
- As principal staff representing U.S. Senator Barbara Boxer on California Delegation Task Force on Defense Reinvestment and Senate Democratic Task Force on Defense Reinvestment, developed policy recommendations incorporated into major legislation.

Conferences and Workshops

- Speaker and presenter, *Labor and the New Energy Economy Conference*, Cleveland, OH, May 18, 2009, sponsored by Policy Matters Ohio/Apollo Alliance, The Center on Wisconsin Strategies, and state and local labor organizations.
- Speaker and presenter, *Making Climate Change Policy Work in Difficult Economic Times: A Conference Focusing on the Job and Equity Impacts of Carbon Pricing Policies*, University of California Berkeley International House, Berkeley, CA, May 5, 2009, sponsored by the U.C. Berkeley Labor Center, Apollo Alliance, California Labor Federation's Workforce and Economic Development Program, California State Building and Construction Trades, and others.
- Organizer and lead presenter on panels on competitiveness and climate policy for the *Good Jobs Green Jobs* conferences in 2008 (Pittsburgh, PA) and 2009 (Washington, DC), sponsored by the Blue-Green Alliance and others.
- International Keynote Speaker, and Instructor, *Climate Prosperity Master Class, City Development World Africa Conference*, Johannesburg, South Africa, October 20-24, 2008.
- Leader, panel on "Analysis and Modeling of Industrial Energy Use," and roundtable participant, "Bringing Energy Efficiency to Scale: Implications for International Energy Markets and Competitiveness," *American Council for an Energy-Efficient Economy Summer Study on Energy Efficiency in Industry*, White Plains, NY, July 24-27, 2007.

- Roundtable speaker, *A North American Labor Assembly on Climate Crisis: Building a Global Movement for Clean Energy*, Cornell University Global Labor Institute, ILR School, New York City, May 7-8, 2007.
- Workshop presenter, "Job Creation and Clean Energy," *Blue-Green Conference, Building Common Ground between Maine's Labor & Environmental Movements*, Winthrop, ME, May 26, 2004.
- Organized, developed background documents and handouts for and participated in *AFL-CIO Western States Conference Electricity Restructuring Crisis*, Oakland, CA, October 17-18, 2001, for state labor federation presidents and other labor officers.
- Represented AFL-CIO and the Trade Union Advisory Council and presented papers at *Organization for Economic Cooperation and Development (OECD) Ministerial Conferences on Electronic Commerce*, in Ottawa, Canada (1998) and Paris, France (1999).
- As staff for the AFL-CIO-backed "Blue-Green" dialogue on climate change, helped organize and led working groups on increasing energy efficiency and reducing carbon emissions in building and industrial sectors, and policies to reduce the adverse impacts of climate policies on communities and workers.
- Participated in AFL-CIO/International Confederation of Free Trade Unions delegation to the *United Nations Framework Convention on Climate Change (COP 6)*, The Hague, Netherlands, November 2000.
- Principal planner and organizer of several hands-on projects, conferences, and workshops on manufacturing policy, internet policy, technology and industrial policy and economic conversion.

EDUCATION

- Ph.D., Graduate Special Division Program: Technology and Society, Stanford University
- M.S., Engineering-Economic Systems, Stanford University
- B.E.E., Electrical Engineering, Rensselaer Polytechnic Institute