
Authors

David Bourne is senior systems scientist at the Robotics Institute at Carnegie Mellon University's Center for Integrated Manufacturing Decision Systems. He is director of the institute's Rapid Manufacturing Laboratory and is adjunct professor at CMU's Graduate School of Industrial Administration. Bourne is also president of Design One Software Inc., a manufacturing process planning software company. Bourne's research focuses on building intelligent systems for automated manufacturing. His expertise is in the areas of rapid, agile and flexible manufacturing, artificial intelligence, intelligent sensing, process planning and control design for manufacturing. Bourne is coauthor of *Manufacturing Intelligence* and he produced, directed and moderated the PBS production entitled "Back to the Cutting Edge," which highlights the problems and solutions in modern manufacturing. He has a B.S. in mathematics from the University of Vermont and M.S. and Ph.D. degrees in computer and information sciences from the University of Pennsylvania.

Kate Heidinger is research assistant at the Economic Strategy Institute where she specializes in economic and social policy, economic development, poverty and inequality. Prior to joining ESI, Heidinger worked at the Illinois State Attorney's Office and for the Minnesota House of Representatives' Public Health Policies Research Department. She is a graduate of Macalester College in St. Paul, Minn.

Ron Hira is assistant professor of public policy at Rochester Institute of Technology. Hira specializes in engineering workforce issues, high-skill immigration and innovation policy. He is also a research associate with the Economic Policy Institute in Washington, D.C. Hira is coauthor of the book *Outsourcing America*, which was a finalist for best business book in the Book Publishers Association's Benjamin Franklin Awards. In 2007, Hira served as a consultant to the U.S. House of Representatives' Committee on Science and Technology, helping organize a series of hearings on the globalization of innovation, research and development. Hira worked as a control systems engineer and program manager with Sensytech. He has worked at the National Institute of Standards and Technology and George Mason University. He has been a consultant to the U.S. Department of Treasury, RAND Corp., the Commission on

Professionals in Science & Technology, the National Research Council, Enterprise Integration Inc., and Deloitte & Touche. Hira completed his postdoctoral fellowship at Columbia University's Center for Science, Policy and Outcomes. He holds a Ph.D. in public policy from George Mason University, an M.S. in electrical engineering from GMU, and a B.S. in electrical engineering from Carnegie Mellon University. He was vice president for career activities of IEEE-USA, the largest engineering professional society in America. Hira was chairman of IEEE-USA's R&D Policy Committee.

James Jacobs is president of the Macomb Community College in Warren, Mich. He became the college's fifth president in March 2009, having previously served as director of Macomb's Workforce Development and Policy Center while also holding the post of associate director for community college operations at the Community College Research Center. He was the president of the National Council for Workforce Development. Currently, he is vice president for partnerships and collaborations for the National Council for Workforce Education, a national postsecondary organization of occupational education and workforce development specialists.

Jacobs is a national expert on workforce development and community colleges with more than two decades of experience working through community colleges to meet the training needs of manufacturers in multiple industries. At Macomb Community College, Jacobs initiated the Machinist Training Institute, a college program that trained entry-level machinists for small- and medium-sized manufacturing firms. He was also responsible for the establishment of community college training programs between the Industrial Technology Institute and Michigan community colleges.

He coordinated the Mid-American Training Group, a coalition of 15 major community colleges in the Midwest that performed education and training activities with auto and steel manufacturers. He has conducted major studies on the impact of new manufacturing technologies on skill requirements at firms, both for the U.S. Department of Education and the U.S. Department of Labor. He is on the National Advisory Board for the Manufacturing Extension Partnership program of the United States Department of Commerce. Jacobs earned a B.A. from Harpur College, Binghamton University, part of the State University of New York system, and a master's degree and Ph.D. in politics from Princeton University.

Sherry Lee Linkon is a professor of English and American studies and co-director of the Center for Working-Class Studies at Youngstown State University. She hosts a weekly radio program on WYSU and serves as book and arts editor for the journal *New Labor Forum*. Her books include *Teaching Working Class*, and two books with John Russo, *Steeltown USA: Work and Memory in Youngstown*, and *New Working-Class Studies*. Linkon was named a Carnegie Scholar in 1999. In 2003, she was named the Ohio Professor of the Year. Linkon holds a Ph.D. in American studies from the University of Minnesota.

Richard McCormack is editor and publisher of *Manufacturing & Technology News*, a publication he created in 1994. He was founding editor of *High Performance Computing and Communication Week* in 1991 and was founding editor of *New Technology Week* in 1987. Prior to that he was a reporter and became editor of *The Energy Daily*. As a Washington, D.C.-based journalist, he has covered science, technology, industry and government for 26 years, specializing in economic competitiveness and globalization. He is author of the book *Lean Machines: Learning from the Leaders of the Next Industrial Revolution*. His work has appeared in hundreds of publications and has been cited and read throughout the world.

Peter Navarro is business professor at the Merage School of Business at the University of California, Irvine. He is the author of the best-selling book *The Coming China Wars*. He wrote the path-breaking management book, *The Well-Timed Strategy*, and the bestselling investment book *If It Rains in Brazil, Buy Starbucks*. Having received his Ph.D. in economics from Harvard, Navarro is an internationally recognized expert in applications of a sophisticated macroeconomic analysis of the business environment and financial markets for investors and corporate executives. He has been featured on *60 Minutes* and his articles have appeared in a wide range of publications, including *Business Week*, the *Los Angeles Times*, *New York Times*, *The Wall Street Journal*, *Harvard Business Review* and the *MIT Sloan Management Review*, among others. He is a regular contributor on CNBC. He publishes a free weekly investment newsletter at www.peternavarro.com. His latest book is *Always a Winner!: Managing for Competitive Advantage in an Up and Down Economy*.

Irene Petrick is professor of practice and director of the Enterprise Informatics and Integration Center at Pennsylvania State University. In addition to teaching, Petrick is actively engaged in research and consult-

ing for U.S. and international companies. Her research emphasizes supply network effectiveness and collaborative innovation. Her most recent work focuses on innovation and global teams with an emphasis on India and the migration of innovation from East to West. Petrick has more than 25 years of experience in project management, product development and R&D in both industrial and academic settings. She received a Ph.D. in engineering science and technology management from the Colleges of Engineering and Business Administration at Penn State. She holds an M.A. in economics and a B.S. in business also from Penn State.

Clyde Prestowitz is founder and president of the Economic Strategy Institute in Washington, D.C. Prior to founding ESI, Prestowitz served as counselor to the Secretary of Commerce in the Reagan administration. There, he led U.S. trade and investment negotiations with Japan, China, Latin America and Europe. Before joining the Commerce Department, he was a businessman in the United States, Europe, Japan and throughout Asia and Latin America. He has served as vice chairman of the President's Committee on Trade and Investment in the Pacific and sits on the Intel Policy Advisory Board and the U.S. Export-Import Bank Advisory Board. He is the author of the best-selling book on U.S.-Japan relations, *Trading Places*, and is coauthor and editor of several other books on international trade and business strategy including *Asia After the Miracle*, *Powernomics*, *Bit by Bit*, *The New North American Trade Order* and *Rogue Nation*. His latest book is *Three Billion New Capitalists: The Great Shift of Wealth and Power to the East*. It covers the economic rise of Asia and the upcoming rebalancing of the world economic order and its impact on the United States. Prestowitz has a B.A. from Swarthmore College, an M.A. in East-West policies and economics from the East-West Center of the University of Hawaii and an M.B.A. from the Wharton Graduate School of Business. He studied at Keio University in Tokyo and is fluent in Japanese, Dutch, German and French.

John Russo is the coordinator of the Labor Studies Program in the Williamson College of Business Administration at Youngstown State University. Russo is also a founder and is the co-director of the Center for Working-Class Studies at Youngstown State University. Since its inception, the center has provided a regional and national forum for scholarly activities. For its work, the center has been the recent recipient of two major Ford Foundation grants. Russo has written widely on labor and social issues and is recognized as a national expert on labor unions and

working class issues. His current research interests involve two book-length projects: *Who Will Protect Worker Rights?: Unions and the Use of Codes/CSR, Capital Strategies, Framework Agreements and Strategic Campaigns* and a historical study of the famous GM Lordstown Assembly plant. His most recent publications are two books coauthored with Sherry Lee Linkon, *Steeltown, USA: Work and Memory in Youngstown* and a book entitled *New Working-Class Studies*.

Michael Webber is assistant professor of mechanical engineering at the University of Texas at Austin. He is also associate director of UT-Austin's Center for International Energy and Environmental Policy in the Jackson School of Geosciences, and is a fellow of the Strauss Center for International Security and Law at the LBJ School of Public Affairs. Prior to joining UT-Austin, Webber was an analyst at the RAND Corp., where he studied issues related to national security, innovation, energy and manufacturing. Prior to that, he was senior scientist at Pranalytica, where he worked on inventing sensors for use in homeland security and industrial and environmental monitoring applications. Webber received a Ph.D. in mechanical engineering from Stanford University, an M.S. in mechanical engineering also from Stanford and a B.S. in aerospace engineering from UT-Austin. His written commentary on issues relating to energy policy and international affairs has been published regularly in the *Austin American-Statesman*, *Dallas Morning News*, *San Antonio Express-News*, *Fort Worth Star-Telegram* and the *Houston Chronicle*.

