

Innovation Policy Forum

Committee

Maryann P. Feldman

Co-Chair

Dr. Maryann P. Feldman is the Watts Endowed Professor of Public Affairs at Arizona State University. Her research and teaching interests focus on the areas of innovation, the commercialization of academic research and the factors that promote technological change and economic growth. From 2014 to 2017, Dr. Feldman held a joint appointment at the National Science Foundation as the Science of Science and Innovation Policy (SciSIP) Program Director. Dr. Feldman's early work revealed that universities were necessary, but not sufficient, for technology-based economic development. These findings launched a new area of investigation into university technology transfer. She has written extensively on processes and mechanisms to commercialize academic research, areas germane to the SBIR/STTR programs. She earned her Ph.D. in economics and management from Carnegie Mellon University.

Thomas Guevara

Co-Chair

In 2017, Mr. Guevara was appointed director of the Indiana University Public Policy Institute in Indianapolis, where he currently leads the institute's efforts to provide leaders in the public and nonprofit sectors with research and analyses that inform policymaking and enable them to make better decisions. He was previously the deputy assistant secretary at the U.S. Department of Commerce's Economic Development Administration, where he served for six years leading the federal economic development agenda and promoting U.S. innovation and competitiveness.

Mr. Guevara has been active with the Innovation Policy Forum and other projects of the STEP Board, having participated as a speaker, facilitator, and reviewer, and contributing his knowledge and expertise as the most senior career officer at the Economic Development Administration. Prior to his current membership, Mr. Guevara was an ex officio member of the Forum in 2015 and served as a member of the Advancing Economic Development and Workforce Readiness in Metropolitan Areas workshop committee (2018).

Prior to his position at the Department of Commerce, Mr. Guevara worked in a variety of state and local government executive positions in Indiana and in the private sector with Crowe Horwath LLP in Indianapolis.

Mr. Guevara received an MPA from Indiana University's School of Public and Environmental Affairs in 1989.

William B. Bonvillian

Member

William B. Bonvillian is a Lecturer at MIT and Senior Director at MIT's Office of Digital Learning. From 2006 until 2017, he was Director of MIT's Washington Office, supporting MIT's long-standing role in science policy. He teaches courses on science and technology policy and innovation systems at MIT and is coauthor of five books on innovation, "Workforce Education - A New Roadmap" (MIT Press, 2021); "The DARPA Model for Transformative Technology" (Open Book Publishers, 2020), "Advanced Manufacturing: The New American Innovation Policies" (MIT Press, 2018); "Technological Innovation in Legacy Sectors" (Oxford University Press, 2015); and "Structuring an Energy Technology Revolution" (MIT Press, 2009); as well as numerous articles. Previously he worked for over 15 years on innovation issues as a senior advisor in the U.S. Senate, and earlier was a Deputy Assistant Secretary of Transportation.

Mr. Bonvillian chaired the Committee on Science and Engineering Policy at the American Association for the Advancement of Science (AAAS) for four years, is a member of the Babbage Forum at Cambridge University on industrial innovation policy, and is on the Polaris Council advising the Government Accountability Office on science and technology policy. He was elected a Fellow of the AAAS in 2011 and received the IEEE Public Service award in 2006.

Mr. Bonvillian received B.A. and J.D. degrees from Columbia University and an M.A.R. from Yale Divinity School.

Sanya R. Carley

Member

Dr. Sanya Carley is a Paul H. O'Neill Professor and Director of the Master of Public Affairs programs at the O'Neill School of Public and Environmental Affairs at Indiana University, where she also co-directs the Energy Justice Lab. Her research focuses on energy justice and just transitions, electricity and transportation markets and policy, and public perceptions of energy infrastructure and technologies. Dr. Carley chairs the Technical Advisory Council for the National Renewable Energy Laboratory and is an author of the Fifth National Climate Assessment report, among other national service commitments. Dr. Carley's research has been recognized with several prestigious awards, including the David N. Kershaw Award in 2021, honored by the Association of Public Policy Analysis and Management, and the 2022 Indiana University Tracey Sonneborn Award. She received her Ph.D. in public policy from the University of North Carolina at Chapel Hill, M.S. in urban and regional planning from the University of Wisconsin-Madison, and bachelor's degrees in economics and sustainable development from Swarthmore College.

Andre Gudger

Member

André Gudger is the President and CEO of Eccalon with over twenty years of experience leading middle-market technology companies and senior positions within the federal government. From 2011 to 2017, he served as President Barack Obama's Deputy Assistant Secretary of Defense for Manufacturing and Industrial Base Policy (MIBP) and the Director of the Office of Small Business Programs. As the Deputy Assistant Secretary of Defense, Mr. Gudger provided detailed analyses of the increasingly global and financially complex industrial supply chain and took appropriate actions to maintain the health, integrity, and technical superiority of the industrial base.

Mr. Gudger was also the Defense Department's lead for President Obama's National Network of Manufacturing Innovation, through which he led the establishment of eight manufacturing institutes that focus on additive manufacturing, lightweight metals technology, robotics, and biotechnology. He is credited with reshaping MIBP by creating programs that focus on business intelligence, analytics, and global markets to modernize the office's programs and realign its focus areas for the 21st Century.

Previously, he served as the Director of the Office of Small Business Programs, where he acted as the principal advisor to the Secretary of Defense on all matters related to small business, and oversaw more than \$120 billion of annual awards to small companies. Earlier, Mr. Gudger worked on key technical and financial initiatives with the Federal Deposit Insurance Corporation, Union Bank of Switzerland, and AT&T, and he founded Solvern Innovations, a cybersecurity solutions company, where he served as its Chairman and Chief Executive Officer.

Mr. Gudger received a Bachelor of Science degree from the University of Maryland at Baltimore County and an MBA from the University of North Carolina at Chapel Hill.

Kathleen N. Kingscott

Member

Kathleen Kingscott is Vice President, Strategic Partnerships, for IBM Research. She is responsible for developing collaborative research partnerships among IBM, industry, academia, and government. Ms. Kingscott chairs the CTO Work Group of the Semiconductor Industry Association. She is a member of the Board of Managers of the American Institute of Physics Publishing. She is the co-chair of the Task Force on American Innovation, a coalition of companies, university associations, and professional societies that supports federal investment in scientific research and is a member of the Executive Committee of the Electronics Division of the National Defense Industrial Association.

Previously, Ms. Kingscott held the IBM Industry Chair at the Industrial College of the Armed Forces, National Defense University. Other earlier roles include Director, Worldwide Innovation Policy, for IBM with responsibility for worldwide public policy matters regarding innovation, science, and technology and a number of public policy, Congressional relations, information technology marketing, and marketing management positions in IBM. She served as a member of the Secretary of Commerce's Manufacturing Council from 2015 to 2016. She has been with IBM for 45 years.

Ms. Kingscott received a B.A. from Vanderbilt University.

Celia I. Merzbacher

Member

Dr. Celia Merzbacher is the Executive Director of the Quantum Economic Development Consortium (QED-C), a global consortium of stakeholders from industry, academia and government that aims to grow the quantum industry and supply chain. Dr. Merzbacher has two decades of experience leading technology initiatives and partnerships. Previously, she was Vice President for Innovative Partnerships at the Semiconductor Research Corporation, a consortium of the semiconductor industry. In 2003-2008, she was Assistant Director for Technology R&D in the White House Office of Science and Technology Policy where she led the National Nanotechnology Initiative and served as Executive Director of the President's Council of Advisors on Science and Technology (PCAST). Dr. Merzbacher began her career as a research scientist at the U.S. Naval Research Laboratory, where her research on optical materials led to numerous technical publications and six patents. She is a Fellow of the AAAS and serves on advisory boards of several quantum technology centers and incubators. She is past chair of the NASEM National Materials and Manufacturing Board and was on the Board of Directors of the American National Standards Institute. Dr. Merzbacher received her undergraduate degree from Brown University and her Master's and Ph.D. degrees from the Pennsylvania State University in the field of geological science.

Phillip A. Singerman

Member

Phillip Singerman is currently a Senior Adviser (Non-Resident) for the Renewing American Innovation Project at the Center for Strategic and International Studies (CSIS), an elected fellow at the National Academy of Public Administration (NAPA), and a Senior Advisor to the American Manufacturing Communities Collaborative (AMCC). From 2011 to 2020 he served as the Associate Director for Innovation and Industry Services at the National Institute of Standards and Technology (NIST), also serving as the U.S. co-chair of the Israel-U.S. Binational Industrial Research and Development Foundation (BIRD-F), on the U.S.-India Science & Technology Endowment Board, and on the Stakeholders Council of the Advanced Functional Fabrics of America, a Manufacturing USA Institute. With more than 45 years of experience in tech-based economic development, Dr. Singerman was the first chief executive of the Ben Franklin Technology Partners of Southeastern Pennsylvania (BFTP-SEP) and the Maryland Technology Development Corporation (TEDCO). During the Clinton administration, he served as U.S. Assistant Secretary of Commerce for Economic Development and Administrator of the Economic Development Administration (EDA). He has participated on scores of local, state, and national advisory boards and associations, including the State Science and Technology Institute, the Technology Council of Maryland, the IEDC, the National Governors Association's Advisory Committee on Entrepreneurial Policy, and the National Science Foundation's Small Business Advisory Committee. He was the 2011 recipient of IEDC's Federal Leadership in Economic Development award.

Dr. Singerman received his B.A. from Oberlin College and holds a Ph.D. from Yale University. After college he served as a Rural Community Development Peace Corps Volunteer in Colombia, South America.

Michael F. Molnar

Ex Officio Member

Mike Molnar is the founding director of the Advanced Manufacturing National Program Office at the National Institute of Standards and Technology, the interagency team responsible for the Manufacturing USA program. He also leads the NIST Office of Advanced Manufacturing and serves as co-chair of the National Science and Technology Council, Subcommittee on Advanced Manufacturing – the team responsible for the National Strategic Plan for Advanced Manufacturing. Prior to joining federal service in 2011, Mr. Molnar had a successful industry career, including 25 years leading manufacturing and technology development at Cummins, a U.S. based global company that designs, manufactures, and distributes engines and power generation products.

Mr. Molnar has had a breadth of experience in technology development, sustainable manufacturing, environmental policy, advanced manufacturing processes, flexible automation, precision metrology, quality systems, and capital management. He earned a Bachelors in Mechanical Engineering and Masters in Manufacturing Systems Engineering from the University of Wisconsin, and an Executive MBA from the University of Notre Dame.

Carol A. Robbins

Ex Officio Member

Carol Robbins is a senior economist and analyst in the Science, Technology, and Innovation Analysis Program in the National Science Foundation's (NSF) National Center for Science and Engineering Statistics (NCSES). Her work at NCSES is focused on improving the data provided within the federal statistical system on the measurement of intangible investment and innovation, including R&D, open-source software, patents, and trademarks. She is the author of the 2022 Science and Engineering Indicators report, Invention, Knowledge Transfer, and Innovation. Prior to joining NCSES, she worked for more than a decade at the Bureau of Economic Analysis (BEA), where she played a leading role in the conceptual and empirical work behind the BEA-NSF R&D satellite account and subsequent inclusion of R&D as investment in U.S. national, industry, and regional economic accounts.

While at BEA Dr. Robbins was awarded the U.S. Department of Commerce Gold Medal for work creating an R&D satellite account. At NSF she was awarded the Director's award for her role in reinventing the Science and Engineering Indicators report in 2020. She has served on several international advisory bodies on the measurement of R&D and intangibles in national economic accounts and is a member of the National Bureau of Economic Research's Conference on Research in Income and Wealth.

Dr. Robbins has a B.A. in economics from Bryn Mawr College and Ph.D. in economics from the University of Delaware.

Gail Cohen

Staff Officer