

Invitation for Comment on Candidates for the Economic Guidelines Review Panel

July 29, 2019

The EPA Science Advisory Board (SAB) Staff Office announced in a *Federal Register* Notice on June 12, 2019 (84 FR 27327 - 27328) that it was forming a panel to provide independent advice to EPA to through the chartered SAB on its revised *Guidelines for Economic Analyses* by EPA's National Center for Environmental Economics (NCEE).

To form the panel, the SAB Staff Office sought public nominations of environmental economists and other experts with extensive experience estimating benefits and costs of environmental outcomes. Background information on the project and details on the nomination process appeared in the cited notice. Based on qualifications and interest, the SAB Staff Office identified the attached "List of Candidates." Brief biographical sketches of the seventeen (17) candidates are listed below.

The SAB Staff Office Director makes the final decision about who will serve on the panel based on all relevant information. This includes a review of the candidate's confidential financial disclosure form (EPA Form 3110-48 or Form 450) and an evaluation of a lack of impartiality. For the EPA SAB Staff Office, a balanced committee or panel is characterized by inclusion of candidates who possess the necessary domains of knowledge, the relevant scientific perspectives (which, among other factors, can be influenced by work history and affiliation), and the collective breadth of experience to adequately address the general charge. Specific criteria to be used in evaluating a candidate include: (a) scientific and/or technical expertise, knowledge, and experience (primary factors); (b) availability and willingness to serve; (c) absence of financial conflicts of interest; (d) absence of an appearance of a lack of impartiality; (e) skills working in committees, subcommittees and advisory panels; and (f) diversity of, and balance among scientific expertise and viewpoints for the panel as a whole.

We welcome information, analysis or documentation for the Staff Office to consider in evaluating the candidates. Please provide any comments you may have with respect to the candidates no later than August 19, 2019. Please submit your comments to the attention of Dr. Holly Stallworth, Designated Federal Officer at stallworth.holly@epa.gov. Please be advised that comments are subject to release under the Freedom of Information Act.

Biosketch Information
Economic Guidelines Review Panel Nominees

Aldy, Joseph

Harvard University

Dr. Joseph E. Aldy is a Professor of the Practice of Public Policy and Faculty Chair of the Mossavar-Rahmani Center for Business and Government Regulatory Policy Program at the Harvard Kennedy School, a University Fellow at Resources for the Future, a Faculty Research Fellow at the National Bureau of Economic Research, and a Senior Adviser at the Center for Strategic and International Studies. He has been a Non-Resident Fellow at the Center on Global Energy Policy at Columbia University, a Visiting Scholar at the Kleinman Center for Energy Policy at the University of Pennsylvania, and a Lone Mountain Fellow at the Property & Environment Research Center. In 2009-2010, he served as the Special Assistant to the President for Energy and Environment at the White House. Dr. Aldy previously served as a Fellow at Resources for the Future, Co-Director of the Harvard Project on Climate Agreements, Co-Director of the International Energy Workshop, Treasurer of the Association of Environmental and Resource Economists, and worked on the staff of the President's Council of Economic Advisers as a Senior Economist, Senior Adviser, and Staff Economist. He earned his doctorate in economics from Harvard University, an MEM degree in resource economics and policy from the Nicholas School of the Environment at Duke University, and a bachelor degree in an independently-designed environmental science program from Duke University. Dr. Aldy's research focuses on climate change policy, energy policy, and regulatory policy. This includes publications in economics, science, and law journals on valuing mortality risk reduction, the use of market-based instruments to mitigate greenhouse gas emissions, the competitiveness impacts of climate change policy, the design of international environmental agreements, energy efficiency subsidies, renewable power subsidies, and other topics. The Administrative Conference of the United States commissioned a report by Aldy on the retrospective review of federal regulations, which included recommendations for agency practice adopted by the ACUS plenary. Government agencies have formally solicited an external peer review by Dr. Aldy on a variety of topics, including mortality risk valuation (EPA, Homeland Security, and Transportation), integrated assessment models (Energy and U.S. Global Change Research Program), guidelines for regulatory impact analysis (Health and Human Services), the benefits and costs of regulations (OMB), energy innovation and low-carbon energy policies (National Research Council and Council of Economic Advisers), and academic research projects (National Science Foundation).

Banzhaf, Spencer

Georgia State University

Professor H. Spencer Banzhaf is Professor of Economics at Georgia State University. He received his Ph.D. in economics from Duke University in 2001. He specializes in estimating household's values (or demand) for non-market goods such as environmental quality. In related work, he has suggested ways to measure and construct indexes of ecosystem services. Two themes in Dr. Banzhaf's work are the distributional welfare effects of environmental policies and the effects on welfare measures of interactions among local environmental amenities, local real estate markets, and the demographic composition and structure of cities. In particular, he has studied the way these social mechanisms interact to drive the correlations between pollution and poor households, as described by the "Environmental Justice" movement. More recently, he has focused on the bounds we can place on valuing environmental quality under minimal modeling assumptions. Dr. Banzhaf's work has been

published in journals such as the American Economic Review, International Economic Review, Journal of Environmental Economics and Management, Journal of Urban Economics, and History of Political Economy. Prior to joining Georgia State in 2006, he was a fellow at Resources for the Future. He is a Research Associate in the National Bureau of Economic Research (NBER) and a Senior Fellow at the Property and Environment Research Center (PERC).

Black, Dan

University of Chicago

Dr. Dan A. Black is a Senior Fellow in National Opinion Research Center's Economic, Labor, and Population Studies department, a research fellow at Forschungsinstitut zur Zukunft der Arbeit, and Professor at the Harris School of Public Policy Studies, the College, and the Committee on Quantitative Methods in Social, Behavioral, and Health Sciences at the University of Chicago. His research focuses on labor economics and is a Fellow of the Society of Labor Economists. His papers have appeared in the top journals in economics, statistics, and demography.

Dr. Black is on the editorial board of *Journal of Labor Economics*, *Labour Economics*, and the *Journal of Urban Economics*. He has served on panels for the Census Bureau, the United States Department of Education, the Environmental Protection Agency, the National Science Foundation, and the National Academy of Science, and has served as a consultant for the New Zealand and Australian governments. Before joining the Harris School, he was on faculty at the University of Kentucky and Syracuse University, and held visiting appointments at the University of Chicago, Australian National University, and Carnegie Mellon University.

Cecot, Caroline

George Mason University

Professor Caroline Cecot is an Assistant Professor of Law at Antonin Scalia Law School at George Mason University. She teaches environmental law, administrative law, and torts and has published articles in peer-reviewed journals and law reviews on cost-benefit analysis, regulatory reform, and environmental regulation. Professor Cecot holds a J.D. from Vanderbilt Law School, where she received the Robert F. Jackson and Archie B. Martin Memorial Prizes for her grades; was elected to Order of the Coif; and served as Senior Articles Editor for the Vanderbilt Law Review and Articles Editor for the Environmental Law and Policy Annual Review. Professor Cecot also holds a Ph.D. in law and economics from Vanderbilt University. Following her graduate studies, Professor Cecot was the Postdoctoral Research Scholar in Law and Economics at Vanderbilt Law School and clerked for the Honorable Raymond J. Lohier, Jr., of the United States Court of Appeals for the Second Circuit. She was also Legal Fellow at the Institute for Policy Integrity at New York University School of Law, where she authored amicus curiae briefs and submitted comments on environmental and regulatory issues. Professor Cecot graduated from Harvard College magna cum laude with an AB degree in economics.

Clay, Karen

Carnegie Mellon University

Dr. Karen Clay is Professor of Economics and Public Policy at Carnegie Mellon's Heinz College. She holds courtesy appointments at the Tepper School of Business and in the Department of Engineering and Public Policy, is a Senior Fellow at the Scott Institute for Energy Innovation at Carnegie Mellon, is an affiliated faculty member at the University of Pittsburgh, School of Law, and is a research associate at the National Bureau of Economic Research. She received her Ph.D. in economics from Stanford University and her B.A. with highest honors in Economics and Math from the University of Virginia. Her work focuses on energy and environmental economics in contemporary and historical settings, with a focus on topics related to pollution and health. Professor Clay's research has been supported by the National Science Foundation, the Department of Energy, and the Sloan Foundation. Her papers have been published in the Journal of Political Economy, Review of Economics and Statistics, and American Economic Review, Papers and Proceedings. Professor Clay's research has appeared in a range of media outlets including the Wall Street Journal, New York Times, Washington Post, Newsweek, and Axios. She has taught courses in cost-benefit analysis, energy and the environment, law and economics, and economic analysis. Professor Clay has also served as a reviewer for Austrian Science Foundation, Economic and Social Research Council (United Kingdom), Fulbright Specialist Program, Hong Kong Research Grants Council, Industry Canada, National Science Foundation, Russell Sage, Smith Richardson Foundation, and Social Science and Humanities Research Council of Canada. Before coming to Carnegie Mellon, Karen Clay was an assistant professor at the University of Toronto. While at Toronto, she won the Polanyi Prize in Economics, a research-based prize awarded annually to one outstanding junior faculty member at an Ontario university. Professor Clay has also been a visiting scholar at Stanford Law School and a visiting associate at Caltech.

Farrow, Scott

University of Maryland – Baltimore County

Dr. Scott Farrow has been a Professor in the Department of Economics since 2005 (Chair, 2005-2011) and a Faculty Fellow at the Center for Urban and Environmental Research and Education at UMBC, a branch of the University System of Maryland. Professor Farrow was previously an Associate Professor at Carnegie Mellon University and a Senior Fellow at the Marine Policy Center of the Woods Hole Oceanographic Institution. Dr. Farrow served several times in government; most recently as the Chief Economist of the Government Accountability Office (GAO, 2002-2005) where he focused on themes of economic performance based on benefit-cost analysis and risk analysis, as Associate Director for Pollution Prevention and Ranking Senior Economist at the Council on Environmental Quality (1990-1992) and in the Department of the Interior. Dr. Farrow earned his B.A. from Whitman College in Economics and his M.A. and Ph.D. (Natural Resource Economics and Industrial Organization) from Washington State University (1981, 1983). He was the founding editor of the Journal of Benefit-Cost Analysis, now published by Cambridge University Press, the author of several books and edited volumes including Principles and Standards for Benefit-Cost Analysis (2013) and Teaching Benefit-Cost Analysis (2018). His published research spans topics in the extraction of natural resources, marine reserves, pollution trading, decision making under risk including real options, empirical differences in risk metrics and applied benefit-cost analysis. His research focuses on the economics and risk based evaluation of government programs. Dr. Farrow has carried out consulting or research contracts related to environmental quality and benefit-cost analysis around the world as well as recent consulting work related to the benefit-cost evaluation of homeland security investments. He has received several awards from the Society for Benefit-Cost Analysis where he was active during its creation.

Fraas, Art

Resources for the Future

Dr. Arthur G. Fraas joined Resources for the Future (RFF) as a Visiting Fellow in April 2009 after serving in senior positions within the federal government. He retired after 21 years as chief of the Natural Resources, Energy, and Agriculture Branch (NREA), Office of Information and Regulatory Affairs, Office of Management and Budget (OMB). The NREA Branch was responsible for reviewing regulations and the associated economic analyses developed by the energy, environmental, and natural resource agencies. Much of his work at RFF has examined the federal regulatory process, with a particular focus on energy and environmental regulations. Specific projects include examining the treatment of uncertainty in regulatory analysis of major rules, pathways to the potential regulation of greenhouse gases under the Clean Air Act, and retrospective review of energy efficiency rules. Before joining the OMB, Dr. Fraas was a senior economist at the Council on Wage and Price Stability, a staff member of the Senate Judiciary Subcommittee on Antitrust and Monopoly, an assistant professor of economics at the US Naval Academy, and a staff economist with the Federal Reserve System. Dr. Fraas graduated from Cornell University in 1965 with a bachelor's degree in engineering physics and earned his doctorate in economics from the University of California at Berkeley in 1972.

Fullerton, Don

University of Illinois – Urbana-Champaign

Dr. Don Fullerton joined the University of Illinois at Urbana-Champaign in 2008 as Gutsell Professor in the Department of Finance, the Institute for Government and Public Affairs (IGPA), and the Center for Business and Public Policy (CBPP). He graduated from Cornell in 1974 and received a PhD in Economics from U.C. Berkeley in 1978. He won the Outstanding Doctoral Dissertation Award of the National Tax Association and went on to teach at Princeton University (1978-84), the University of Virginia (1984-91), Carnegie Mellon University (1991-94) and the University of Texas (1994-2008). From 1985 to 1987, Dr. Fullerton served in the U.S. Treasury Department as Deputy Assistant Secretary for Tax Analysis, where he received the Meritorious Service Award for his work on the Tax Reform Act of 1986. From 1995 to 2000, he was Director of the American Economic Association (AEA) Summer Minority Program. After serving as Managing Editor of *The B.E. Journal of Economic Analysis and Policy* for ten years, he became Co-Editor and then Editor of the *Journal of the Association of Environmental and Resource Economists*. He was the founding Director of the Research Program in Environmental and Energy Economics (EEE) at the National Bureau of Economic Research (NBER) and served for ten years (2007-2016). He is the author of over a hundred published papers and books, including research on corporation income tax incentives, the incidence of all US taxes, garbage and recycling behavior by households, policies to control vehicle emissions, and distributional effects of environmental policies such as a carbon tax.

Graham, John

Indiana University

Dr. John D. Graham has been Dean of the School of Public and Environmental Affairs (SPEA) at Indiana University (Bloomington and Indianapolis) since 2008. His previous academic roles include Dean of the Pardee RAND Graduate School in California (2006-2008) and tenured Professor of Policy and Decision Sciences at the Harvard School of Public Health (1985-2001), where he founded and led the Harvard Center for Risk Analysis. At the request of President George W. Bush, Dean Graham also served in the Executive Office of the President as Administrator of the U.S. Office of Management and Budget's Office of Information and Regulatory Affairs (2001-2006). In this capacity, Dean Graham led

the regulatory-review, statistical, and information-policy functions of the federal government. Dean Graham earned his BA in economics and politics from Wake Forest University (1978), his MA in public affairs from Duke University (1980), and his Ph.D. in public affairs from Carnegie-Mellon University (1983). As an EPA-funded post-doctoral fellow in environmental health at the Harvard School of Public Health (1984-5), he was trained in the methods of risk assessment. He is an author or co-author of over 200 scientific articles and ten books, several that focus on environmental science and public policy: *In Search of Safety: Chemicals and Cancer Risk* (Harvard University Press, 1988), *Harnessing Science for Environmental Regulation* (Praeger Press, 1991), *Risk Versus Risk: Tradeoffs in Protecting Health and the Environment* (Harvard University Press, 1995), *The Greening of Industry: A Risk Management Approach* (Harvard University Press, 1997), and *Persistent, Bioaccumulative, and Toxic (PBT) Chemicals: Technical Aspects, Policies and Practices* (CRC Press, 2016). As a professor, Dr. Graham has taught courses in risk analysis, decision analysis, benefit-cost analysis, and policy analysis. Dean Graham is an elected fellow of the National Academy of Public Administration, has served on several NRC/NAS Committees on various topics, has served the EPA Science Advisory Board as a committee member, and is the recipient of the highest honor of the Society for Risk Analysis, its distinguished lifetime achievement recognition for contributions to the field of risk analysis. During the last two years, Dean Graham has been principal investigator of two grants, one on the economics of fuel-economy regulation (Alliance of Automobile Manufacturers) and another on regulatory reform (Searle Freedom Trust). Dr. Graham has consulted widely with government agencies and legislatures, non-profit organizations, businesses, and trade associations around the world.

Kotchen, Matthew

Yale University

Dr. Matthew Kotchen is a Professor of Environmental Economics and Policy at Yale University and a former Associate Dean of Academic Affairs. His primary appointment is in the Yale School of Forestry and Environmental Studies, with affiliated appointments in the Yale School of Management and the Department of Economics. He is also a faculty research fellow at the National Bureau of Economic Research (NBER). Professor Kotchen's research interests lie at the intersection of environmental and public economics, and ongoing projects focus on program evaluation of environmental and energy policies. Dr. Kotchen joined the Yale faculty in 2009 and has held previous and visiting positions at Williams College, University of California (Santa Barbara and Berkeley), Stanford University, and Resources for the Future (RFF). He also served as the Deputy Assistant Secretary of Environment and Energy at the U.S. Department of the Treasury.

Landry, Craig

University of Georgia

Dr. Craig Landry is a professor of Environmental and Natural Resource Economics at the University of Georgia with expertise in non-market valuation, coastal resources management, and experimental economics. He teaches graduate microeconomic theory and natural resource economics, as well as non-market valuation at the undergraduate level. His research agenda includes individual decision-making under risk & uncertainty; risk management, insurance, and mitigation for natural hazards; dynamic optimization models for studying coupled human-natural coastal systems; modeling of recreation demand, including beach going and recreational angling; experimental economics for assessing non-market valuation methods and willingness to pay for public goods; among many other topics. His research papers have been published in the *American Economic Review*, *Quarterly Journal of Economics*, *Journal of Environmental Economics and Management*, *Land Economics*, *American Journal of Agricultural Economics*, and *Marine Resource Economics* (among others). Dr. Landry has served

numerous times as review panelist for the National Science Foundation, National Academies of Science, Environmental Protection Agency, and National Oceanic & Atmospheric Administration's Sea Grant programs. He was a lead author for the National Climate Assessment chapter on Rural Communities. Dr. Landry holds Masters degrees from University of Georgia and University of Maryland - College Park. His PhD is in Agricultural and Natural Resources Economics from the University of Maryland - College Park.

Levinson, Arik

Georgetown University

Dr. Arik Levinson is a Professor of Economics at Georgetown University, a Faculty Research Fellow at the National Bureau of Economic Research, and a Coeditor of the Journal of the Association of Environmental and Resource Economists. He previously served as a Senior Economist at the White House Council of Economic Advisers, a member of the EPA Science Advisory Board Environmental Economics Advisory Committee, and a Coeditor of the Journal of Environmental Economics and Management. Dr. Levinson's current research projects include a calculation of how the environmental consequences of American consumers' choices have differed across income groups over time ("Environmental Engel Curves"); a comparison of energy taxes and efficiency standards ("Energy Efficiency Standards are More Regressive..."); and an analysis of the redistributive consequences of electricity pricing ("The Electric Gini"). Dr. Levinson has a Ph.D. in Economics from Columbia University.

Linn, Josh

University of Maryland

Dr. Joshua Linn is an Associate Professor in the Department of Agricultural and Resource Economics at the University of Maryland and a senior fellow at Resources for the Future. His research examines the effects of policies and economic forces on clean technology innovation and adoption in the transportation, electricity, and manufacturing sectors. He has published in leading general interest and field journals in environmental economics, industrial organization, and public economics. Dr. Linn's research uses statistical and computational models to assess the economic effects of policies, including retrospective analyses of existing policies and analyses of potential policies. His transportation research assesses passenger vehicle taxes, subsidies, and fuel economy standards in the United States and Europe. He has examined the effects of Beijing's vehicle ownership restrictions on travel behavior, labor supply, and fertility. His work on the electricity sector has compared the effectiveness of cap and trade and alternative policy instruments in promoting new technology and reducing emissions of carbon dioxide and local air pollutants. Recent studies have compared the roles of natural gas prices and environmental regulation in explaining coal mine closures and the declining coal-fired generation in the United States. Dr. Linn has examined the implications of low-cost storage and renewables for reducing electricity sector emissions. His research on the manufacturing sector has investigated the roles of energy prices in driving the adoption of energy-saving technology and the effects of carbon pricing on industrial competitiveness. From 2005-2008, Dr. Linn was an assistant professor in the economics department at the University of Illinois at Chicago, and from 2008-2010 he was a research scientist at MIT. Past and current service activities include being a senior economist at the Council of Economic Advisers from 2014-2015, a co-editor at the Journal of Environmental Economics and Management since 2017, and currently serving on a National Academies of Sciences, Engineering, and Medicine committee on light-duty fuel economy. He received a BA in Astronomy and Physics from Yale University in 2000 and a PhD in Economics from MIT in 2005.

Shapiro, Joseph

University of California - Berkeley

Dr. Joseph S. Shapiro is Associate Professor in the Department of Agricultural and Resource Economics at the University of California, Berkeley, and Research Associate at the National Bureau of Economic Research. His research investigates the efficiency and effectiveness of environmental and energy policy. He has conducted research on measuring long-term trends in U.S. water pollution, how the Clean Water Act has affected pollution, costs of water pollution regulation, and on the willingness-to-pay for water quality. This research was recognized in an Editor's Choice piece in *Science* magazine. His second research area analyzes how trade policy and environmental policy interact, how trade affects the environment, and how environmental policies affect trade, including general equilibrium model analysis of the costs and benefits of climate change and air pollution policy. A third area of his research studies adaptation to environmental change such as air pollution and climate change—how important are the resources that people invest to protect themselves against environmental problems, how should research account for defensive health investments, and how should benefit-cost analyses incorporate defensive investments? Dr. Shapiro's other work includes analysis of the distributional effects of climate change policy. Dr. Shapiro is co-editor of the *Journal of Public Economics* and Research Associate at the Energy Institute at Haas. His work has been supported by an Alfred P. Sloan Research Fellowship, a British Marshall Scholarship, National Science Foundation grants, an EPA STAR fellowship, and a Kiel Institute Excellence Award in Global Economic Affairs. His research has been published in the *Quarterly Journal of Economics*, the *American Economic Review*, the *Journal of Political Economy*, and the *Proceedings of the National Academy of Sciences*, among other scholarly journals. Dr. Shapiro holds a Ph.D. in economics from MIT, Masters degrees from Oxford and the London School of Economics, and a BA from Stanford.

Shimshack, Jay

University of Virginia

Dr. Jay Shimshack is Associate Dean for Academic Affairs and Associate Professor of Public Policy and Economics at the University of Virginia's Frank Batten School of Leadership and Public Policy. He is a former co-editor of the *Journal of Environmental Economics and Management* (JEEM) and currently serves on the Editorial Council of the *Journal of the Association of Environmental and Resource Economists* (JAERE). His major fields are environmental regulation, environmental economics, corporate social behavior, and applied microeconomics for public policy. Professor Shimshack has made significant contributions to society's understanding of environmental enforcement and compliance, the distributional effects of policy and environmental disparities, the choice of environmental policy instruments, and the benefits and costs of environmental and health policy. His academic research has been published in JEEM, JAERE, the *Journal of Law and Economics*, the *Journal of Economic Literature*, the *Journal of Health Economics*, and elsewhere. He has advised federal agencies including the U.S. Environmental Protection Agency, the U.S. Department of Agriculture, and the U.S. Department of Labor, consulted for private organizations, and testified before the U.S. House of Representatives. Dr. Shimshack received a Ph.D. and M.S. from U.C. Berkeley in Agricultural and Resource Economics and a B.S. in Business Marketing and Management from Cornell University. Prior to joining UVa, Dr. Shimshack held positions at Tulane University's Department of Economics, Tufts University's Department of Economics, and a visiting faculty fellowship at the University of Michigan's Erb Institute for Global Sustainable Enterprise. Teaching experience includes statistics and research methods, environmental economics and policy, public service learning, and microeconomics. At the University of Virginia, Dr. Shimshack teaches economics for public policy and benefit-cost analysis.

Smith, V. Kerry**Arizona State University (Emeritus)**

Dr. V. Kerry Smith is an Emeritus University Professor of Economics and Emeritus Regents Professor at Arizona State University (ASU). Prior to his retirement, he served as a Regents Professor and W.P. Carey Professor of Economics. He came to ASU in 2006 after serving as University Distinguished Professor and Director, Center for Environmental and Resource Economic Policy in the Department of Agricultural and Resource Economics at North Carolina State University. He is currently a University Fellow at Resources for the Future and a Research Associate with the National Bureau of Economic Research. Dr. Smith received his A.B. and Ph.D. in Economics from Rutgers University. He presented the Frederick V. Waugh Lecture for the American Agricultural Economics Association (AAEA) in 1992 and at the 2002 AAEA annual meeting he was named an AAEA Fellow. In 2004 he was elected a member of the National Academy of Sciences. He is also a Fellow of the Association of Environmental and Resource Economists. Dr. Smith is a member of the American Economic Association, the Southern Economic Association, the Association of Environmental and Resource Economists, and several other professional associations. He has also held editorial positions with the Journal of the Association of Environmental and Resource Economists, the Journal of Environmental Economics and Management, Land Economics, Review of Economics and Statistics, and other professional journals. His research interests include non-market valuation of environmental resources, role of public information in promoting private risk mitigation, the linking of ecological and economic models, general equilibrium modeling and welfare analysis for market and nonmarket resources.

Williams, Richard A.**Food and Drug Administration (retired)**

Dr. Richard A. Williams is a retired economist from the Food and Drug Administration. He is currently working on a book about the Food and Drug Administration. He has received compensation from the formaldehyde council at the American Chemistry Council in 2017. At FDA, he was responsible for economic analysis, consumer studies and epidemiology for the Center for Food Safety and Nutrition. Subsequently, he was a Vice President for Policy at the Mercatus Center at George Mason University for nine years. He is currently a Senior Affiliated Scholar with the Mercatus Center and with Utah State's Center for Growth and Opportunity. He is also on the Board of Trustees for the International Life Sciences Institute. He has served on a National Academy of Sciences panel, served as President of the Virginia Chapter of the Society for Risk Analysis and has served as an advisor to the Harvard Center for Risk Analysis. He has extensive knowledge of risk analysis including risk/risk, health/health and benefit-cost analysis. Dr. Williams has created and taught classes on risk analysis for USDA and FDA. He has been invited to testify before the House and Senate multiple times on regulatory issues and has appeared on radio and television, including CNBC, National Public Radio, Reuters, Bloomberg, the New York Times and the Wall Street Journal. He has been invited to speak in multiple countries. He frequently writes op-eds that have a national audience on risk, economic and regulatory issues. He is currently working on the effects using linear, no-threshold dose-response curves as a default for chemicals and radiation. He has given keynote speeches within the last several years to the Governance of Emerging Technologies at ASU and the International Life Sciences Institute on emerging technologies. Dr. Williams received his Ph.D. in economics from Virginia Tech and his BS in business administration from Old Dominion University.