

Review of Governance Reform in the National Nuclear Security Administration

Committee

Jonathan D. Breul

Co-Chair

Jonathan D. Breul is retired Executive Director of the IBM Center for The Business of Government. Previously, he was senior advisor to the Deputy Director for Management in the Office of Management and Budget. Mr. Breul served as OMB's senior career executive with primary responsibility for government-wide general management policies. He helped develop the President's Management Agenda, was instrumental in establishing the President's Management Council, and led the development and government-wide implementation of the Government Performance and Results Act. In addition to his OMB activities, he helped Senator John Glenn (D-Ohio) launch the Chief Financial Officers (CFO) Act. He also served for eight years as the U.S. delegate and elected vice chair of the Paris-based Organization for Economic Cooperation and Development's (OECD) Public Management Committee. Mr. Breul is an elected fellow of the National Academy Public Administration (NAPA) and leads the Government Performance Coalition. He holds a Masters of Public Administration from Northeastern University, and a Bachelor of Arts from Colby College.

Donald H. Levy

Co-Chair

Donald H. Levy is the Albert A Michelson Distinguished Service Professor of Chemistry Emeritus at the University of Chicago and senior advisor to the university president. For a decade ending in 2016, he was the university's vice president for national laboratories, with responsibility for the oversight of DOE's Fermi and Argonne National Laboratories. He earned a B.A. from Harvard University in 1961 and a Ph.D. from the University of California, Berkeley, in 1965. After two years at Cambridge University as an NIH and then NATO Postdoctoral Fellow, he joined the University of Chicago in 1967 and has spent his entire career there. Among his many honors, Prof. Levy has served as Editor of the Journal of Chemical Physics (1998-2007), chair of the American Institute of Physics Editors' Panel (2000-2002), CEO and board member of the UChicago Argonne LLC (2007-2016), vice-chair of the Argonne National Laboratory Board of Governors and chair of its Science Policy Council (2007-2016), member of the Fermilab Board of Directors (2007-2016), and fellow of the American Physical Society, AAAS, Optical Society of America, American Academy of Arts and Sciences, and American Chemical Society. He has served on seven NRC committees, chairing one of them.

Allan V. Burman

Member

Allan Burman is President of Jefferson Solutions (Solutions), the government consulting practice of the Jefferson Consulting Group. Under his leadership, Solutions provides analysis, evaluation, program management and acquisition assistance and assessment services to many government departments and agencies. Dr. Burman had a lengthy career in the Federal government, serving in policy positions in the Office of the Secretary of Defense and in the White House's Office of Management and Budget (OMB) under Presidents Reagan, Bush and Clinton. Dr. Burman is Chair of the Procurement Round Table, a Fellow and Member of the Executive Advisory Council of the National Contract Management Association, a member of the Partnership for Public Service and an Honorary Member of the National Defense Industrial Association (NDIA). He is also an adjunct professor at George Mason University and at the International Law Institute where he is also a member of its Procurement Advisory Board.

Keith A. Coleman

Member

Keith Coleman is the chief engineer for Boeing's Cruise Missile Systems within Boeing Global Strike Systems. This organization has a charter to design, build, and test current and new development cruise missiles and support systems. He has worked in Boeing Military Aircraft production and Phantom Works advanced design organizations for over 28 years. He has also worked in the Advanced Weapons division working as the Program Manager for the successful Office of the Secretary of Defense Counter Electronics High Powered Microwave Advanced Missile Project (CHAMP) Joint Concept Technology Demonstration. Before the CHAMP program, Mr. Coleman led the Defense Threat Reduction Agency's UAV-based Beyond-Line-of-Site Biological Combat Assessment System (BCAS) prototype Advanced Technology Demonstration. Mr. Coleman has led and worked on numerous other design efforts, in manufacturing and testing, and in management.

Dona L. Crawford

Member

Dona L. Crawford recently retired as associate director for computation at the Lawrence Livermore National Laboratory (LLNL), where she was responsible for the development and deployment of an integrated computing environment for petascale simulations of complex physical phenomena. This environment includes high-performance computers, scientific visualization facilities, high-performance storage systems, network connectivity, multi-resolution data analysis, mathematical models, scalable numerical algorithms, computer applications, and necessary services to enable laboratory mission goals and scientific discovery through simulation. Prior to her LLNL appointment in July 2001, Ms. Crawford had been with Sandia National Laboratories since 1976, serving on many leadership projects, including the Accelerated Strategic Computing Initiative, the Nuclear Weapons Policy Board, and the Nuclear Weapons Strategic Business Unit. Ms. Crawford has served on advisory committees for the National Science Foundation, the Council on Competitiveness, and four Academies committees. She has served on the Civilian Research and Development Foundation Board, is a member of the IEEE and the Association for Computing Machinery, is active in the U.S. high-performance networking and computing conference series, and participates in community outreach activities to promote mathematics and science. She holds a BS degree in mathematics from the University of Redlands, California, and an MS degree in operations research from Stanford University.

Martin C. Faga

Member

Martin C. Faga is a retired President and Chief Executive Officer of the MITRE Corporation. As a Federally Funded R&D Center (FFRDC), MITRE's governance has parallels with the governance of NNSA facilities. Before joining MITRE, Mr. Faga served from 1989 until 1993 as Assistant Secretary of the Air Force for Space, where he was responsible for overall supervision of Air Force space matters. At the same time, he served as Director of the National Reconnaissance Office (NRO), responsible to the secretary of defense and the Director of Central Intelligence for the development, acquisition and operation of all U.S. satellite reconnaissance programs. Mr. Faga is a NAPA Fellow and a member of the Board of Directors of the Association of Former Intelligence Officers. He served from 2006-2009 on the President's Intelligence Advisory Board. Since retiring from MITRE, Mr. Faga has been elected to the Boards of Directors of Alliant Techsystems, DigitalGlobe, and Inmarsat Government. He is Chairman of the Board of Thomson Reuters Special Services. He has also served on the Board of Electronic Data Systems. Mr. Faga received M.S. and B.S. degrees in electrical engineering from Lehigh University in 1964 and 1963. Early in his career he was a professional staff member for the House Permanent Select Committee on Intelligence. He co-chaired a recent AFSB study committee.

Paul A. Fleury

Member

Paul A. Fleury (NAS/NAE) is the Frederick William Beinecke Professor Emeritus of Engineering and Applied Physics, and Professor of Physics at Yale University. He is the founding Director of the Yale Institute for Nanoscience and Quantum Engineering. He served as Dean of Engineering at Yale from 2000 until 2008. Prior to joining Yale Dr. Fleury was Dean of the School of Engineering at the University of New Mexico from January 1996, following 30 years at AT&T Bell Laboratories. At Bell Laboratories he was director of three different research divisions covering physics, materials and materials processing research between 1979 and 1996. During 1992 and 1993 he was Vice President for Research and Exploratory Technology at Sandia National Laboratories. He is a Fellow of the American Physical Society, the American Association for the Advancement of Science, and the American Academy of Arts and Sciences. He received the 1985 Michelson-Morley Award and the 1992 Frank Isakson Prize of the American Physical Society for his research on optical phenomena and phase transitions in condensed matter systems. A current member of the Board on Physics and Astronomy and the Laboratory Assessments Board, Dr. Fleury has been a member of numerous Academies committees. He was a member of the Commission to Review the Effectiveness of the National Energy Laboratories, one of the studies that led to the current study.

T. J. Glauthier

Member

Mr. T.J. Glauthier is president and CEO of TJG Energy Associates, LLC. He also is an executive, board member, and advisor for public and private organizations in the energy sector. He currently serves on the boards of directors of two companies. One is VIA Motors, a manufacturer of electric drive delivery vans and pickup trucks for the international market, and the other is California Bioenergy, which works with large dairies in California's Central Valley. He also advises Stem, an energy storage and management company headquartered in Silicon Valley. Glauthier is also an advisor to Booz Allen Hamilton's energy practice, including its work for the Department of Energy, the National Nuclear Security Agency, and the National Laboratories, and on innovative management approaches to government programs. He co-chaired the Congressionally chartered Commission to Review the Effectiveness of the National Energy Laboratories ("CRENEL"), which produced the 2015 report "Securing America's Future: Realizing the Potential of the Department of Energy's National Laboratories," and he was also a member of the Congressionally chartered Advisory Panel on the Governance of the Nuclear Security Enterprise (the "Augustine-Mies panel") that produced the 2014 report "A New Foundation for the Nuclear Enterprise." In the Clinton Administration, he held two Presidential appointments: at the White House as Associate Director of OMB for Natural Resources, Energy and Science, and as the Deputy Secretary and COO of the Department of Energy, the second-highest position at DOE. At DOE, he was responsible for overseeing all of DOE's 120,000 federal and contract employees, 17 national laboratories, and annual budget of over \$19 billion. In 2008, he served on President Obama's transition team. After leaving the government in 2001, he was CEO of the Electricity Innovation Institute, an affiliate of EPRI. Earlier, he was a vice president of the management consulting firm Temple, Barker & Sloane, and director of energy and climate change at the WWF. He is a graduate of Claremont McKenna College and the Harvard Business School.

David Graham

Member

David Graham is Deputy Division Director in the Strategy, Forces, and Resources Division at the Institute of Defense Analyses, an FFRDC. Since 1995, Graham has led several dozen studies addressing post-Cold War national security roles, responsibilities, and organizations for a variety of sponsors. His work on the DOE nuclear weapons complex includes coauthoring IDA's 1996 "120-Day Study" of The Organization and Management of the Nuclear Weapons Program; participating in Admiral Hank Chiles' 1999 Presidential Commission on Nuclear Expertise; co-authoring the Chiles' studies of DOE security in the early 2000s; and serving as a member of the 2008 Defense Science Board Panel on nuclear deterrence skills. Graham served for four years (1999-2003) as the IDA study lead for the Panel to Assess the Reliability, Safety, and Security of the U.S. Nuclear Stockpile (the "Foster Panel"). In 2013-14 he served as the executive director for the congressionally mandated Augustine-Mies Panel and assisted in preparing their 2014 report and testimony, which led to the current study. Most recently, Graham led a congressionally mandated study on the management of security operations at DOE's Category I nuclear sites. Other research interests include assessments of DOD's acquisition and contracting practices and studies of DOD manpower and personnel programs. In 2000, Graham was awarded IDA's Goodpaster Award for research excellence. He holds a B.A. degree from Wabash College (1971) and a PhD in economics from the University of California, Los Angeles (1975).

William Greenwalt

Member

William Greenwalt is an advisor and consultant to a range of government and private sector clients on defense and government matters. Previously, Greenwalt served as a Professional Staff Member for the Senate Armed Services Committee focusing on acquisition, industrial base and management reform issues. Prior assignments have also included serving as the Deputy Under Secretary of Defense for Industrial Policy, a Visiting Fellow at the American Enterprise Institute, the Vice President for Acquisition Policy at the Aerospace Industries Association, Deputy Director for Surveys and Investigations for the House Appropriations Committee, and Federal Acquisition Policy Director at Lockheed Martin. He also served previously in professional staff positions with the United States Senate and the Government Accountability Office.

Robert F. Hale

Member

Robert F. Hale currently serves as a fellow at Booz Allen Hamilton. Immediately prior to his role at Booz Allen, Mr. Hale served as the United States Under Secretary of Defense (Comptroller) from 2009 until 2014, and before that as the Assistant Secretary of the Air Force (Financial Management and Comptroller). Mr. Hale has over 30 years of experience as a professional financial manager serving in a wide range of roles related to national defense. In addition to his time at the Department of Defense, Mr. Hale served in the National Security Division of the Congressional Budget Office and as the executive director of the American Society of Military Comptrollers.

Barbara Romzek

Member

Barbara Romzek is a Professor of Public Administration and Policy at American University in Washington, D.C. She was formerly at the University of Kansas as Interim Senior Vice Provost for Academic Affairs, Interim Dean of the College of Liberal Arts and Sciences, Associate Dean for Social and Behavioral Sciences and Professor and Chairperson of the Department of Public Administration. She is recognized for her expertise in the area of public management and accountability with emphases on government reform, contracting, and network service delivery. Her research has encompassed complex work settings, including NASA, Congress, and the Air Force, as well as state agencies, local governments, and nonprofit agencies. Building on her research on formal accountability, her recent work focuses on informal accountability in collaborative network settings. A NAPA Fellow, Dean Romzek has received research awards from the American Society for Public Administration and the American Political Science Association. She has served on the governing boards for the Academy of Management, American Political Science Association, Midwest Political Science Association, and the National Association of Schools of Public Affairs and Administration; she currently serves on the Board of the Public Management Research Association. She received her PhD from the University of Texas.

Merri Wood-Schultz

Member

Merri Wood-Schultz is retired from the Los Alamos National Laboratory (LANL) and is an active member of the Nuclear Forensics Science Panel. Dr. Wood-Schultz's early career focused on the physics design of secondaries of thermonuclear weapons. She was responsible for the conceptual and physics design of numerous nuclear tests and add-on experiments; the areas of focus of these tests included stockpile systems, weapons physics, and advanced development. Dr. Wood-Schultz played an active role in the development of nuclear weapons-related laboratory experiments (AGEX), serving as the lead designer for a series of experiments on the Sandia National Laboratories' SATURN pulsed-power machine and as a member of the inaugural LANCE (neutron scattering facility) Users Group. Later phases of Dr. Wood-Schultz's career included involvement in developing concepts and methods for certification without nuclear testing, notably the quantification of margins and uncertainty (QMU), and an increase in her work in nuclear intelligence. The latter led to a 6-month, change-of-station assignment to a DOE intelligence organization. Dr. Wood-Schultz became a LANL Fellow in 2001, received the DOE Award of Excellence in 1988, 1999, and 2004, the STRATCOM Medal of Excellence in 1997, and the LANL Distinguished Performance Award in 1996. She received B.S., M.S., and PhD degrees in physics from the Georgia Institute of Technology.

Joan B. Woodard

Member

Joan B. Woodard is an independent consultant. Dr. Woodard retired in 2010 from Sandia National Laboratories as executive vice president and deputy director. She served as the chief operating officer from 1999 to 2005. During her 36-year career at Sandia, she led the energy technology development programs as well as the national security programs and was the executive with oversight for human resources and compensation as well as budget and finance. She oversaw Sandia's Defense, Homeland Security, and Energy programs. She led several strategic initiatives, including strategies for energy, cyber security, and the future of science and technology. Dr. Woodard served as deputy lab director of nuclear weapons at Sandia Corporation. Dr. Woodard earned her doctorate degree in mechanical engineering from the University of California, Berkley, and a master's degree in engineering economics from Stanford University. She has served on four previous NRC studies, most recently on the Committee on the Assessment of the Governance Structure of the NNSA National Security Laboratories.