

National Science, Technology, and Security Roundtable

Committee

John C. Gannon

Co-Chair

John C. Gannon, PhD, is the former Chairman of the National Intelligence Council. He is currently an adjunct professor in the graduate Security Studies Program at Georgetown University. He served in numerous positions at the Central Intelligence Agency, including as Director of European Analysis, as Deputy Director for Intelligence, Assistant Director of Central Intelligence for Analysis and Production, and as Chairman of the National Intelligence Council. After his retirement from CIA in 2001, he served in the White House as the head of the intelligence team standing up the Department of Homeland Security and later on the Hill as the Staff Director of the House Select Committee on Homeland Security. He retired from the UK-owned BAE Systems in 2012 as President of the \$1.7-billion Intelligence and Security Sector, which supported intelligence, defense, and homeland-security missions. In 2014-15, he was the Executive Director of the Congressionally-directed 9/11 Review Commission of the FBI. He earned his BA in psychology at Holy Cross College, and his MA and PhD in history at Washington University in St. Louis. Gannon is a member of Council on Foreign Relations, and the Board of Directors of Voices of September 11th. He has served on numerous committees of the National Academies.

Richard A. Meserve

Co-Chair

Richard A. Meserve, JD, PhD, (NAE) is President Emeritus of the Carnegie Institution for Science. He is also Senior Of Counsel at the law firm of Covington & Burling LLP. Before assuming the Carnegie presidency in April 2003, he was Chairman of the U.S. Nuclear Regulatory Commission (NRC), having served since October 1999. He currently serves as Chairman of the International Nuclear Safety Group, chartered by the International Atomic Energy Agency. Early in his career, he served as legal counsel to the President's science advisor, and was a law clerk to Justice Harry A. Blackmun of the United States Supreme Court and to Judge Benjamin Kaplan of the Massachusetts Supreme Judicial Court. Dr. Meserve received a B.A. from Tufts University, a J.D. from Harvard Law School, and a Ph.D. in applied physics from Stanford University. He is a member of the National Academy of Engineering (NAE) and has previously served on numerous committees and boards of NASEM.

Maria T. Zuber

Co-Chair

Maria Zuber is the E. A. Griswold Professor of Geophysics and presidential advisor for science and technology policy at MIT, tracking trends and seizing opportunities to inform and advance enlightened state and federal policy. She also provides strategic direction to campus labs, centers, and initiatives connected to defense or national security and represents MIT with external stakeholders.

Zuber served as vice president for research from 2013 to 2024, and was responsible for research administration and policy, research relationships with the federal government, and oversight of MIT Lincoln Laboratory and more than a dozen interdisciplinary research laboratories and centers. In that role, she led the team that developed and provided oversight for MIT's Climate Action Plan.

Zuber's research bridges planetary geophysics and the technology of space-based laser and radio systems. Since 1990, she has held leadership roles associated with scientific experiments or instrumentation on ten NASA missions, most notably serving as principal investigator of the Gravity Recovery and Interior Laboratory (GRAIL) mission. Zuber currently serves as Chair of the Standing Review Board of NASA's Mars Sample Return mission.

Zuber holds a B.A. from the University of Pennsylvania and an Sc.M. and Ph.D. from Brown. She has won numerous awards, including the MIT James R. Killian Jr. Faculty Achievement Award, the highest honor the MIT faculty bestows to one of its own. She is a member of the National Academy of Sciences and the American Philosophical Society, and is a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the Geological Society, and the American Geophysical Union. In 2019, she was awarded the Gerard P. Kuiper Prize by the Division for Planetary Sciences of the American Astronomical Society. Zuber is the first woman to lead a science department at MIT and the first to lead a NASA planetary mission.

In 2013, President Obama appointed her to the National Science Board, and in 2018 she was reappointed by President Trump. She served as Board Chair from 2016-2018. In 2021, President Biden named her as co-chair of the President's Council of Advisors on Science and Technology (PCAST).

Chaouki T. Abdallah

Member

Chaouki T. Abdallah, PhD, joined the Georgia Institute of Technology (Georgia Tech) on September 1, 2018 as a Professor of Electrical & Computer Engineering (ECE) and the Executive Vice President for Research (EVPR). Prior to that, he was a professor of Electrical and Computer Engineering (ECE) at the University of New Mexico (UNM). He also served as Chair of the ECE department at UNM between 2005 and 2011, and as Provost of UNM between July 2011 and August 2018. Between January 2017 and February 2018, he also served as the 22nd President of UNM. As the chief research officer of Georgia Tech, Abdallah provides overall leadership for the Institute's \$1 billion portfolio of research, economic development and sponsored activities, including the Georgia Tech Research Institute (GTRI), eleven interdisciplinary research institutes (IRIs), and related research administrative support units. He also serves on the executive committee of the Council on Research for the Association of Public & Land-Grant Universities (APLU), the executive committee for the Government-University-Industry Research Roundtable (GUIRR), and the advisory committee for the Center on Measuring University Performance (MUP).

Abdallah obtained his Bachelor's of Engineering (BE) degree from Youngstown State University in 1981, and his MS and PhD in Electrical Engineering from Georgia Tech in 1982, and 1988 respectively. Abdallah conducts research and teaches courses in the general area of systems theory with focus on control, communications, and computing systems. Abdallah is a senior member of IEEE, is a recipient of the IEEE Millennium medal, and is fluent in English, French, and Arabic. the requested bio.

Christopher P. Austin

Member

Thomas Fingar

Member

Thomas Fingar, PhD, is the Shorenstein Asia-Pacific Research (APARC) Distinguished Fellow in the Freeman Spogli Institute for International Studies (FSI), Stanford University. From 2005 through 2008, he served as deputy director of national intelligence for analysis and, concurrently, as chairman of the National Intelligence Council. Dr. Fingar served previously as assistant secretary of the U.S. State Department's Bureau of Intelligence and Research (2000-2001 and 2004-2005), principal deputy assistant secretary (2001-2003), deputy assistant secretary for analysis (1994-2000), director of the Office of Analysis for East Asia and the Pacific (1989-1994), and chief of the China Division (1986-1989). Between 1975 and 1986 he held a number of positions at Stanford University, including senior research associate in the Center for International Security and Arms Control (CISAC). Dr. Fingar is a graduate of Cornell University (A.B. in Government and History, 1968), and Stanford University (MA, 1969 and PhD, 1977 both in political science).

J. Michael McQuade

Member

J. Michael McQuade, PhD, is Carnegie Mellon University's Vice President for Research, providing leadership for the University's research enterprise and advocating for the role that science, technology and innovation play nationally and globally. From 2006 to 2018 he served as Senior Vice President for Science & Technology at United Technologies Corporation, where he provided strategic oversight and guidance for research, engineering and development activities that focused on a broad range of high-technology products and services for the global aerospace and building systems industries. Dr. McQuade held senior positions with technology development and business oversight at 3M, Imation and Eastman Kodak. He served as Vice President of 3M's Medical Division and President of Eastman Kodak's Health Imaging Business. He has broad experience managing basic technology development and the conversion of early stage research into business growth. Dr. McQuade holds Ph.D., M.S. and B.S. degrees in physics from Carnegie Mellon University. He served as a member of the President's Council of Advisors on Science and Technology and of the Secretary of Energy Advisory Board and is a member of the Defense Innovation Board.

Kathryn A. Moler

Member

Kathryn Moler, PhD, is the Vice Provost and Dean of Research, the Marvin Chodorow Professor, and Professor of Applied Physics and of Physics at Stanford University. She conducts research in magnetic imaging, develops tools that measure nanoscale magnetic fields, and studies quantum materials and devices. Among other honors, she received a national Presidential Early Career Award for Scientists and Engineers, held a Packard Fellowship for Science and Engineering, received the William L. McMillan Award "for her fundamental studies of the superconducting pairing state, Josephson vortices, and the role of interlayer coupling in high-temperature superconductors," and was elected a Fellow of the American Physical Society. To honor her sustained commitment to teaching, the American Association of Physics Teachers awarded her the Richtmyer Award for Outstanding Leadership in Physics Education, and Stanford appointed her as the Sapp Family Fellow in Undergraduate Education. She was previously the Senior Associate Dean of Natural Sciences in the School of Humanities and Sciences and the Director of the Stanford Nano Shared Facilities. She is a member of the NanoFront (TU-Delft/Leiden) Scientific Advisory Board and the Physics Frontier Center—Joint Quantum Institute Advisory Board.

Anna B. Puglisi

Member

Anna Puglisi is currently the CEO and Founder of a boutique consulting firm that helps governments, companies and research entities secure their technology and personnel. Anna also serves as a Senior Advisor to the National Security Commission on Emerging Biotechnology and adjunct Faculty at Georgetown University. Previously she was a Senior Fellow at Georgetown's Center for Security and Emerging Technology (CSET) where she focused on S&T policy development and global technology competition, and the National Counterintelligence Officer for East Asia, advising senior U.S. and foreign government officials at the highest levels, academia and the private sector on counterintelligence (CI) issues including research security. She has played a prominent role in drafting U.S. national S&T strategies and in designing mitigation strategies for both the public and private sectors to protect technology. She has received numerous awards including the FBI Director's Award for Excellence. Anna holds an MPA, an MS in environmental science and a BA in Biology with honors, all from Indiana University. She studied at the Princeton in Beijing Chinese language school and was a visiting scholar in Nankai University's Department of Economics, where she studied China's S&T policies, infrastructure development and university reforms. She is a co-author of the 2013 study *Chinese Industrial Espionage*, the first book-length treatment of the topic, as well as countless related proprietary studies. She is proficient in Mandarin Chinese.

Jason A. Donovan

Ex Officio Member

Jason is a career member of the U.S. Senior Foreign Service, class of Counselor. He joined the Service in 1999, after working in academia and in the private sector as a technology entrepreneur. He served his first tours in Guatemala and Italy, prior to returning to Washington, where he worked in the State Department's Operations Center and on the Executive Secretariat staff. Jason coordinated regional security initiatives in Southeast Asia before moving to U.S. Embassy New Delhi, where he worked as the Deputy in the Economic Section focusing on clean energy cooperation. After being recalled to Washington to serve as Director for South Asia at the National Security Council, Jason was State Department Deputy Director for Western Europe, then Director for Multilateral and Global Affairs. Jason led the International Narcotics and Law Enforcement section at U.S. Mission Pakistan before joining U.S. Embassy London as Political Counselor. He assumed his duties as Director of the Office of Science & Technology Cooperation in September 2022. Jason speaks French, Spanish, and Italian.

Lyric A. Jorgenson

Ex Officio Member

Lyric Jorgenson, PhD, is the Acting Associate Director for Science Policy and the Acting Director of the Office of Science Policy at the NIH. In this position, she provides senior leadership in the development and oversight of cross-cutting biomedical research policies and programs considered to be of high-priority to NIH and the United States Government. Prior to this role, she served in numerous roles across the agency, including Deputy Director of the Office of Science Policy, and has led the development of numerous high impact science and policy initiatives such as the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative and the National Center for Advancing Translational Sciences (NCATS). Dr. Jorgenson also served as the Deputy Executive Director of the White House Cancer Moonshot Task Force in the Office of the Vice President in the Obama administration, where she directed and coordinated cancer-related activities across the Federal government and worked to leverage investments across sectors to dramatically accelerate progress in cancer prevention,

Dr. Jorgenson earned a doctorate degree from the Graduate Program for Neuroscience at the University of Minnesota-Twin Cities where she conducted research in neurodevelopment with a focus on learning and memory systems. She earned a Bachelor's degree in Psychology from Denison University.

Rebecca Keiser

Ex Officio Member

Rebecca Spyke Keiser, PhD, is Chief of Research Security Strategy and Policy at the National Science Foundation (NSF). She has served as head of OISE since coming to NSF in 2015. The office promotes an integrated, international strategy and manages internally focused programs that are innovative, catalytic and responsive to a broad range of NSF and national interests.

Keiser is the first CRSSP, a position established in March 2020 to ensure the security of federally funded research while maintaining open international collaboration. In this role, Keiser provides the NSF director with policy advice on all aspects of research security strategy. She also leads NSF's efforts to develop and implement efforts to improve research security and the agency's coordination with other federal agencies and the White House.

Harriet Kung

Ex Officio Member

Dr. Harriet Kung is the Deputy Director for Science Programs in the Office of Science at the U.S. Department of Energy. As Deputy Director for Science Programs, Dr. Kung is the senior career official providing scientific and management direction and oversight for the SC research programs, including Advanced Scientific Computing Research, Basic Energy Sciences, Biological and Environmental Research, Fusion Energy Sciences, High Energy Physics, and Nuclear Physics, as well as other supporting functions and offices. Dr. Kung served in various leadership roles in Basic Energy Sciences, the largest program in Office of Science, from 2002 - 2020. Before joining DOE in 2002, Dr. Kung was a technical staff member and a project leader at Los Alamos National Laboratory. Her research focused primarily on nanoscale materials and high temperature superconductivity. With over 20 years of service in the Department of Energy, Dr. Kung led and cultivated one of the Nation's premier physical sciences programs. During her tenure, she developed a new basic research paradigm in team-science approach to advance DOE's science and energy missions by spearheading a decade-long strategic planning initiative to assure timely, science-based solutions. She also positioned the Office of Science as a National Quantum Initiative leader by establishing strategies to capitalize on strong synergy between disciplines such as physics, biology, materials, and engineering, as well as the world-leading scientific user facilities. She has chaired and co-chaired high-level interagency working groups to develop and implement national science priorities. Dr. Kung received her M.S. and Ph.D. degrees from Cornell University. She is the recipient of numerous awards including the Presidential Meritorious Executive Rank Award in 2009 and the Distinguished Executive Rank Award in 2022.

Michael S. Lauer

Ex Officio Member

Michael S. Lauer, MD, is the Deputy Director for Extramural Research at the National Institutes of Health (NIH), where he serves as the principal scientific leader and advisor to the Director of the NIH on all matters relating to the substance, quality, and effectiveness of the NIH extramural research program and administration. He received education and training at Rensselaer Polytechnic Institute, Albany Medical College, Harvard Medical School, Harvard School of Public Health, and the NHLBI's Framingham Heart Study. He spent 14 years at Cleveland Clinic as Professor of Medicine, Epidemiology, and Biostatistics. During his tenure at the Clinic, he led a federally funded internationally renowned clinical epidemiology program that applied big data from large-scale electronic health platforms to questions regarding the diagnosis and management of cardiovascular disease. From 2007 to 2015 he served as a Division Director at the National Heart, Lung, and Blood Institute (NHLBI), where promoted efforts to leverage big data infrastructure to enable high-efficiency population and clinical research and efforts to adopt a research funding culture that reflected data-driven policy. He has received numerous awards including the NIH Equal Employment Opportunity Award of the Year and the Arthur S. Flemming Award for Exceptional Federal Service in recognition of his efforts to grow a culture of learning and accountability.

Thomas Mason

Ex Officio Member

Thomas E. “Thom” Mason, PhD, has served as the Director of Los Alamos National Laboratory since November 2018. Previously he was the Senior Vice President for Global Laboratory Operations at Battelle where he had responsibility for governance and strategy across the six National Laboratories that Battelle manages or co-manages. Prior to joining Battelle, Thom worked at Oak Ridge National Laboratory (ORNL) for 19 years, including 10 years as the Laboratory Director. Under his leadership, ORNL saw significant growth in programs, new facilities, and hiring while achieving record low safety incident rates. Before becoming Laboratory Director, he was Associate Laboratory Director (ALD) for Neutron Sciences, ALD for the Spallation Neutron Source (SNS), and Director of the Experimental Facilities Division. During his time in Oak Ridge, Thom was active in the community serving as Chair of the Oak Ridge Public Schools Education Foundation as well as Innovation Valley, the Knoxville-Oak Ridge area regional economic development organization. He moved to ORNL from the University of Toronto where he was a faculty member in the Department of Physics and previously worked as a Senior Scientist at Risø National Laboratory and a Postdoc at AT&T Bell Laboratories. For the past 30 years, he has been involved in the design and construction of scientific instrumentation and facilities and the application of nuclear, computing, and materials sciences to solve important challenges in energy and national security. Thom has a PhD in Experimental Condensed Matter Physics from McMaster University and a BSc in Physics from Dalhousie University.

Bindu Nair

Ex Officio Member

Bindu Nair, PhD, is Deputy Director for Basic Research at the U.S. Department of Defense.

Jeffrey J. Welser

Consultant

Dr. Jeffrey Welser is Chief Operating Officer for IBM Research and Vice President, Exploratory Science and University Partnerships. He oversees IBM Research Labs based in California, Brazil and Japan, as well as the MIT-IBM Watson AI Lab in Cambridge. He oversees exploratory and applied research to advance data technology and analytics for Hybrid Cloud and AI systems and software, with a strong focus on advanced computing technologies for AI, neuromorphic devices and quantum computing.

After joining IBM Research in 1995, Dr. Welser worked on a broad range of technologies, including novel silicon devices, high-performance CMOS and SOI device design, and next generation system components. He has led teams in both development and research, as well as running industrial, academic and government consortiums, including the SRC Nanoelectronics Research Initiative.

Dr. Welser received his Ph.D. in Electrical Engineering from Stanford University. He holds 21 US Patents and has published over 75 technical papers and presentations. He is an IEEE Fellow, a member of the IBM Academy of Technology and the American Physical Society, and Chairman of the Bay Area Science and Innovation Consortium. He serves on several university and industry technical boards, and has participated in numerous Federal Agency, National Academies and Congressional panels on advanced semiconductor and computing technology.