

NATIONAL ACADEMIES

*Sciences
Engineering
Medicine*

Openness, International Engagement, and the Federally Funded Science and Technology Research Enterprise A Workshop

Planning Committee Member Biographies

Co-Chairs

Hannah Luise Buxbaum is Vice President for International Affairs at Indiana University. She is also Professor of Law and John E. Schiller Chair at IU's Maurer School of Law, where she previously held leadership roles including as interim dean (2012-2014). As Vice President she advances global engagement across IU's seven campuses, including at the Bloomington campus, which hosts 3 Department of Defense-funded Language Flagship Programs and 18 Department of Education Title VI programs, 8 of which are designated as National Resource Centers. She oversees the offices that manage international admissions and student services, study abroad, international partnerships, and international development, as well as the university's five Global Gateway offices. Buxbaum serves on the Fulbright Scholar CIES Advisory Board and the AIEA's Public Policy Committee, and is currently chair of the Big Ten Academic Alliance's Senior International Officer group.

Buxbaum is an elected member of the American Law Institute and the International Academy of Comparative Law, and in 2019 was appointed as the U.S. member of the Curatorium of the Hague Academy of International Law. She holds a B.A. from Cornell University, a J.D. from Cornell Law School, and an LL.M. from the University of Heidelberg.

J. Michael McQuade is Special Advisor to the President of Carnegie Mellon University (CMU), providing strategic advice on the University's research enterprise and advocating for the role that science, technology and innovation play nationally and globally. From 2019 to 2021 he served as the Vice President for Research at CMU. He previously served as Senior Vice President for Science & Technology at United Technologies Corporation, Vice President of 3M's Medical Division and President of Eastman Kodak's Health Imaging Business. Dr. McQuade served as a member of the President's Council of Advisors on Science and Technology, the Secretary of Energy Advisory Board, and as a member of the Defense Innovation Board.

Members

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.

Arthur Bienenstock is Special Assistant to the President for Federal Research Policy at Stanford University, where he also is Associate Director of the Wallenberg Research Link and a professor emeritus of Photon Science. Having been a Stanford faculty member since 1967, he has served as Vice Provost for Faculty Affairs (1972-77), Director of the Stanford Synchrotron Radiation Laboratory (1978-97) as well as Vice Provost and Dean of Research and Graduate Policy (2003-6). In Washington, he was Associate Director for Science of the Office of Science and Technology Policy (1997-2001) and is a member of the National Science Board (2012-present). He is presently co-chair, with Peter Michelson, of the Committee on International Scientific Partnerships of the American Academy of Arts and Sciences. He served on the NASEM Committee on Science, Technology and Law from 2004 to 2012 and on its Committee on Science and Security from 2005 to 2007. Bienenstock was president of the American Physical Society in 2008 and chaired the Council of Scientific Society Presidents in 2010. He received honorary PhDs from the Polytechnic Institute (1998) and Lund University (2006), the Sidhu Award of the Pittsburgh Diffraction Society (1968), the Department of Energy's Distinguished Service Award (2005), Philip Hauge Abelson Prize of the American Association for the Advancement of Science (2018). He is a Foreign Member, Swedish Royal Academy of Engineering Sciences (2010), and Fellow, American Academy of Arts and Sciences (2013).

Tom Fingar is a Shorenstein Asia-Pacific Research Fellow in the Freeman Spogli Institute for International Studies at Stanford University. Previous Positions include Assistant Secretary of State for Intelligence and Research, Chairman of the National Intelligence Council, and Deputy Director of National Intelligence for Analysis. Fingar's professional interests and experience are in national security, international relations, comparative politics, and contemporary China. He is a recipient of Presidential Rank and Meritorious Service awards in the Senior Executive Service, and numerous senior awards from the Department of State and the US Intelligence Community. He earned his PhD and MA degrees in Political Science at Stanford University and his BA in Government at Cornell University.

Edward Bruce Held served for three decades as a clandestine operations officer of the Central Intelligence Agency. Following his retirement from CIA, Mr. Held served as Chief of Counterintelligence at Sandia National Laboratories where he earned the trust and support of the Sandia scientific community to implement a cost effective program to aggressively counter the activities of foreign

intelligence services targeting the laboratory. Impressed by this successful strategy, Energy Secretary Steven Chu asked Mr. Held to return to federal service as Director of DOE's Office of Intelligence and Counterintelligence to lead all intelligence and counterintelligence activities at DOE and the DOE-owned national laboratories. Secretary Chu was particularly appreciative of Mr. Held's success in expanding DOE strategic influence on national cyber defense policy. Director of National Intelligence James Clapper awarded Mr. Held the National Intelligence Superior Service Medal for "transforming the Office of Intelligence and Counterintelligence to meet threats to the national security of the United States." In June 2013, Energy Secretary Ernest Moniz asked Mr. Held to return to federal service again and assume the responsibilities of DOE Associate Deputy Secretary as well as Acting Undersecretary for Nuclear Security with responsibility for leading the National Nuclear Security Administration, a \$12 Billion dollar enterprise with 35,000 government and laboratory employees. Secretary Moniz praised Mr. Held's leadership of NNSA as "transformational". He is currently retired.

Thomas E. "Thom" Mason is the President and CEO of Triad National Security, LLC (Triad) and serves as the Director of Los Alamos National Laboratory. Most recently 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 Ph.D. in Experimental Condensed Matter Physics from McMaster University and a BSc in Physics from Dalhousie University.

Padma Raghavan is the Vice Provost for Research and Professor of Computer Science at Vanderbilt University. She oversees the advancement of the university's research and innovation portfolio, including technology transfer and commercialization spanning the university and medical center. Prior to joining Vanderbilt in 2016, Raghavan served as the Associate Vice President for Research and Strategic Initiatives, the founding Director of the Institute for Computational and Data Sciences, and Distinguished Professor of Computer Science and Engineering at the Penn State.

Raghavan specializes in computational and data sciences and supercomputing, focusing primarily on new algorithms to achieve scalable parallelism, increase energy efficiency, and enable fault-tolerant processing. She has authored over one hundred peer-reviewed publications and supervised nearly fifty M.S. and Ph.D. theses. With the support of an NSF CAREER award, Raghavan's early contributions include the development of the first fully parallel direct linear solvers, an achievement for which she received the Maria Goeppert Meyer Award from the Argonne National Lab and the University of Chicago in 2002. Later, Raghavan was named a fellow of the Institute of Electrical and Electronics Engineers in 2013 in recognition of her contributions to the development of energy-efficient supercomputing.

Raghavan has also served on the committees of the National Academies of Science, Engineering, and Medicine, such as the Technical Advisory Board for the Army Research Laboratory on Information Sciences in 2019. She currently serves on the Advisory Board of the Computing and Information Science and Engineering Directorate of the National Science Foundation. Raghavan received her M.S. and Ph.D. in Computer Science from Penn State.

John C. Yang is the president and executive director of Asian Americans Advancing Justice | AAJC in Washington, D.C., where he leads the organization's mission to advance the civil and human rights of Asian Americans and to build and promote a fair and equitable society for all through policy advocacy, education, and litigation. He has served in leadership positions for the American Bar Association, the National Asian Pacific American Bar Association, and the National Council of Asian Pacific Americans, among many others. Prior to Advancing Justice | AAJC, John had served as a political appointee in the Obama Administration, the Asia-Pacific Legal Director of a Fortune 200 company, and as a partner at a large D.C.-based law firm. He also serves on the diversity council for several Fortune 500 U.S. companies.