

Laboratory Assessments Board (LAB)

Committee

T. J. Glauthier

Chair

TJ GLAUTHIER is retired and is a board member and advisor for public and private organizations in the energy sector. He currently serves on the boards of directors of two companies: VIA Motors, a manufacturer of electric drive trucks and delivery vans; and California Bioenergy, which works with large dairies in the Central Valley of California to capture methane for use as a transportation fuel. He has over 40 years of experience as a management consultant, adviser, and/or board member to energy companies. 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. 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 World Wildlife Fund. Dr. Glauthier has served on three Congressional Commissions reviewing the management of DOE's National Laboratories and continues to serve on the Lawrence Berkeley National Laboratory advisory board. He also serves on the Board on Energy and Environmental Systems of the National Academy of Sciences. He is a Fellow of the National Academy of Public Administration and a graduate of Claremont McKenna College and the Harvard Business School.

Jeff Bingaman

Member

Jeff Bingaman is a former United States Senator from New Mexico, serving from 1983 to 2013. He served as Chairman of the Committee on Outreach for the Senate Democratic Caucus. Senator Bingaman held several committee assignments during his tenure in the U.S. Senate including: the Committee on Energy and Natural Resources, Committee on Finance, Joint Economic Committee, Committee on Armed Services, and the Committee on Health, Education, Labor, and Pensions. On the Senate Energy Committee, he contributed to every major piece of energy policy legislation over two decades. Prior to serving as a U.S. Senator, he worked as a private practice attorney, served as counsel to the New Mexico Constitutional Convention of 1969, and was Attorney General of New Mexico from 1979 to 1983.

Robert D. Braun

Member

ROBERT (BOBBY) D. BRAUN is the Head of the Space Exploration Sector at the Johns Hopkins Applied Physics Laboratory where he is responsible for all aspects of the Lab's civil and national security space efforts. He formerly served as Director for Planetary Science at the Jet Propulsion Laboratory, and as a Professor of Aerospace Engineering at the California Institute of Technology, the University of Colorado Boulder, and the Georgia Institute of Technology. He was the NASA chief technologist in 2010-2011, serving as the principle advisor and advocate for agency-wide technology policy and programs. Formerly, he was a faculty member in the Daniel Guggenheim School of Aerospace Engineering at the Georgia Institute of Technology (Georgia Tech) where he led a research and education program focused on the design of advanced flight systems and technologies for planetary exploration. Prior to joining the Georgia Tech faculty, Dr. Braun worked for sixteen years at the NASA Langley Research Center. While at NASA, he contributed to the design and flight operations of multiple spaceflight projects including the Mars Pathfinder mission. Dr. Braun is a fellow of the American Institute of Aeronautics and Astronautics and the American Astronautical Society, and the author or co-author of more than 300 technical publications in the fields of atmospheric flight dynamics, planetary exploration systems, multidisciplinary design optimization, and systems engineering.

David S. Chu

Member

DAVID S. C. CHU served as President of the Institute for Defense Analyses from 2009 to 2019, where he continues as an adjunct staff member. In the Department of Defense, he served as Under Secretary of Defense for Personnel and Readiness from 2001-2009, and earlier as Assistant Secretary of Defense and Director for Program Analysis and Evaluation (1981-1993). From 1978 to 1981 he was the Assistant Director of the Congressional Budget Office for National Security and International Affairs. Dr. Chu began his career as a U.S. Army officer (1968-1970). He was an economist with the RAND Corporation from 1970 to 1978, director of RAND's Washington Office (1994-1998), and vice president for its Army Research Division (1998-2001). He earned a Ph.D. in economics from Yale University. Dr. Chu is a member of the Defense Science Board and a Fellow of the National Academy of Public Administration. He is a recipient of the Department of Defense Medal for Distinguished Public Service with Gold Palm, the Department of Veterans Affairs Meritorious Service Award, the Department of the Army Distinguished Civilian Service Award, the Department of the Navy Distinguished Public Service Award, and the National Academy of Public Administration's National Public Service Award.

Dona L. Crawford

Member

DONA L. CRAWFORD retired as associate director for computation from the Lawrence Livermore National Laboratory (LLNL), where she led the laboratory's high-performance computing efforts. In that capacity, Ms. Crawford was responsible for the development and deployment of an integrated computing environment for petascale simulations of complex physical phenomena. Prior to her LLNL appointment in 2001, Ms. Crawford was with Sandia National Laboratories (SNL) since 1976 serving on many leadership projects including the Accelerated Strategic Computing Initiative and the Nuclear Weapons Strategic Business Unit. Ms. Crawford has served on a number of National Academies committees including the Committee to Review Governance Reform in the National Nuclear Security Administration and the Committee to Evaluate the NSF's Vertically Integrated Grants for Research and Education (VIGRE) Program. Additionally, she served on the NNSA Defense Programs Advisory Committee for High-Performance Computing (2018-2019). She received her MS in operations research from Stanford University.

Thomas R. Kurfess

Member

THOMAS R KURFESS is the HUSCO/Ramirez Distinguished Chair in Fluid Power and Motion Control and Professor of Mechanical Engineering at Georgia Tech. During 2019-2021 he served as the Chief Manufacturing Officer and the Founding Director for the Manufacturing Science Division at Oak Ridge National Laboratory. During 2012-2013 served as the Assistant Director for Advanced Manufacturing at the Office of Science and Technology Policy in the Executive Office of the President of the United States of America, where he was responsible for coordinating Federal advanced manufacturing R&D. He was President of SME in 2018 and currently serves on the Board of Governors of the ASME. His research focuses on the design and development of advanced manufacturing systems targeting secure digital manufacturing, additive and subtractive processes, and large-scale production enterprises. Dr. Kurfess is a member of the National Academy of Engineering and is a Fellow of ASME, AAAS, and SME. He received his S.B., S.M., and Ph.D. degrees in mechanical engineering from M.I.T. in 1986, 1987, and 1989, respectively. He also received an S.M. degree from M.I.T. in electrical engineering and computer science in 1988.

Carol Schutte

Member

CAROL SCHUTTE retired as Branch Chief for Physical, Chemical, and Biological Sciences at the Air Force Office of Scientific Research where she provided leadership for the annual execution of \$244M in Basic Research. She received a “recognition coin” award for exceptional achievement by the AFRL Nov 2019 Science Advisory Board. Dr. Schutte’s career focused on federal R&D at NIST, DOC, DOE, and DOD. Previously she served as team lead for Materials at the Vehicles Technology Office, Energy Efficiency and Renewable Energy, Department of Energy. She led research in lightweight and propulsion materials. She managed the development of the ORNL Carbon Fiber Manufacturing Facility where her team developed technology on plasma oxidation of carbon fiber precursors enabling a cost reduction of at least 10% with excellent properties. At NIST, Department of Commerce, she managed the Advanced Technology Program’s Manufacturing Composite Structures Focal Program, a \$138M program addressing lightweight composite structures for surface transportation, offshore oil, and civil infrastructure. Dr. Schutte achieved DOD certification as a level 3 S&T Manager. Currently, she serves on the External Science Advisory Panel for UDC. She has a Ph.D., from MIT in Material Science and Engineering and a B.S. in Chemistry from RPI.