Division on Engineering and Physical Sciences (DEPS)

Committee

Julia M. Phillips

Chair

Julia M. Phillips, Chair of the Division on Engineering and Physical Sciences Committee, is Director Emeritus and Retired Vice President and Chief Technology Officer, Sandia National Laboratories. Previous positions at Sandia include Deputy Chief Technology Officer and Director, Laboratory Research & Strategy Partnerships; Director, Nuclear Weapons Science and Technology Programs Director, Physical, Chemical, and Nano Sciences Center at Sandia National Laboratories, and Director of the DOE Center for Integrated Nanotechnologies (CINT) at Sandia and Los Alamos National Laboratories. After 14 years at AT&T Bell Laboratories, she came to Sandia in 1995. Her research has been in the areas of epitaxial metallic and insulating films on semiconductors, high-temperature superconducting, ferroelectric, and magnetic oxide thin films, and novel transparent conducing materials. Dr. Phillips currently serves as Home Secretary for the National Academy of Engineering and is past chair of the APS Division of Condensed Matter Physics and served as president of the Materials Research Society. She served as a member of the Working Group for the 2014 NNI (National Nanotechnology Initiative) Review under the President's Council of Advisors on Science & Technology (PCAST). Dr. Philips received the 2008 George E. Pake Prize for outstanding achievements in physics research combined with major success as a manager of research or development. Dr. Phillips is a fellow of the Materials Research Society, American Academy of Arts and Sciences, American Association for the Advancement of Science, and the American Physical Society. She has served on the editorial boards of Applied Physics Letters, Journal of Applied Physics, and Applied Physics Reviews. She chaired the Advisory Review Board for Journal of Materials Research and has served as its principal editor. She has edited two books, written three book chapters, and prepared more than 100 journal publications, twelve major review articles, and 45 refereed conference proceedings publications. She also holds five patents. Dr. Phillips holds a Ph.D. in applied physics from Yale University and a B.S. in physics from the College of William and Mary.

Terry Boston

Member

Terry Boston is CEO emeritus of PJM Interconnection, the largest grid operator in North America and the largest electricity market in the world. Since retiring from PJM, he has served 3 U.S. Presidents on the President’s National Infrastructure Advisory Commission and has served on 5 Corporate Boards and as an advisor to two European battery companies and Ørsted, a Danish Co. Throughout his career Boston held leadership roles with several major industry organizations, including the Chair of the Association of Edison Illuminating Companies and the Board of North American Electric Reliability Council (NERC). He was elected Board Chair of GO15 (The Very Large Grid Operators of the World that serves 3.5 billion people) and was one of eight industry experts selected to direct NERC’s investigation of the August 14,2003, Northeast/Midwest blackout. Mr. Boston is a member of the National Academy of Engineering and served two 3-year terms on their Board of Energy and the Environmental Systems. Boston received The Governors Outstanding Tennessean Award, TVA’s Engineering of the Year Award, IEEE Leadership in Power Award, the Electricity Storage Association’s International Leadership Award and was unanimously selected as the winner of the Platts Global Energy Life-Time Achievement Award.

Jonathan P. Caulkins

Member

Jonathan P. Caulkins is the Stever University Professor of Operations Research and Public Policy at Carnegie Mellon University's Heinz College, a Fellow of INFORMS, and a member of the National Academy of Engineering (Section 8). Dr. Caulkins specializes in systems analysis of the supply chains supporting illegal markets, particularly problems pertaining to drugs, crime, terror, and prevention. Issues surrounding opioid markets and regulation, COVID-19 and cannabis legalization have been a focus in recent years. Caulkins earned his undergraduate and first masters from Washington University (systems science), as well as a masters (EECS) and PhD (Operations Research) from MIT. He has served on a variety of NASEM study committees and recently completed six years service on the advisory board of the Academies’ Division of Behavioral and Social Sciences and Education (DBASSE). Dr. Caulkins is a past Co-director of RAND's Drug Policy Research Center, founding Director of RAND’s Pittsburgh office and continues to work through RAND on a variety of projects.

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 was a member of the Defense Science Board and is 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.

Jill P. Dahlburg

Member

Jill P. Dahlburg retired from the U.S. Naval Research Laboratory (NRL) as the superintendent of the Space Science Division. While serving in this position for more than a decade, Dahlburg led the conception, planning, and execution of space science research theory and forefront space instrumentation relevant to geophysics, heliophysics, and the high-energy space environment. Dahlburg's career research interests have also included inertial fusion technology, and the development of laser-plasma interactions (LPI) multi-group radiation transport hydrodynamics codes in two- and three-dimensions along with their application to the design and analysis of LPI laboratory experiments. Dahlburg is a former Chair of the American Physical Society (APS) Division of Plasma Physics, of the Department of Energy (DOE) Office of Science Advanced Scientific Computing Advisory Committee, of the APS Panel on Public Affairs, of the NASA Heliophysics Division Advisory Committee, and of the Department of the Navy (DON) Space Experiments Review Board, and has served as a Divisional Associate Editor (Plasma Physics) of The Physical Review Letters. Dahlburg is a fellow of the APS and a recipient of six NRL Allan Berman Awards for scientific publication excellence, a DOE Appreciation Award, and a DON Meritorious Civilian Service Award for exceptional leadership in ensuring DON access to space and revolutionary improvements to space products. Dahlburg earned a Ph.D. in physics from the College of William & Mary. Currently Dahlburg is serving as chair of the NASEM Board on Physics and Astronomy, and as a member of NASEM's consensus study, "NASA Mission Critical Workforce, Infrastructure, and Technology."

Reginald DesRoches

Member

Reginald DesRoches is Rice University’s eighth president. He also serves as a professor of civil and environmental engineering, and professor of mechanical engineering. As president, DesRoches is the chief executive officer of the university and its 8,200 plus students, eight schools and more than 900 faculty. He previously served as Rice's Howard Hughes Provost and William and Stephanie Sick Dean of Engineering. DesRoches served as the key technical leader in the United States’ response to the 2010 Haiti earthquake, taking a team of 28 engineers, architects, city planners and social scientists to study the impact of the earthquake. He also has participated in numerous congressional briefings to underscore the critical role that university research must play in addressing the country’s failing infrastructure and enhancing the nation’s resilience to natural hazards. DesRoches is a member of the prestigious National Academy of Engineering and the American Academy of Arts and Sciences, and is a fellow of American Society of Civil Engineers and the Structural Engineering Institute. DesRoches also is a member of the Academy of Distinguished Alumni in Civil Engineering at Berkeley and was recently named an honorary alumnus of Georgia Tech.

Christine H. Fox

Member

Christine Fox became the assistant director for policy and analysis of the Johns Hopkins University Applied Physics Laboratory (APL) in 2014. As the nation's largest University Affiliated Research Center, APL performs research and development on behalf of the Department of Defense, the intelligence community, the National Aeronautics and Space Administration (NASA), and other federal agencies. The laboratory has more than 5,000 staff members who are making critical contributions to a wide variety of nationally and globally significant technical and scientific challenges. Previously, she served as Acting Deputy Secretary of Defense between December 2013 and May 2014. With her appointment, Ms. Fox became the highest-ranking female official in history to serve in the Department of Defense. Until August 2013, Ms. Fox served as the Director, Cost Assessment and Program Evaluation in the Office of the Secretary of Defense. She was appointed to that position in November 2009. A presidential appointee confirmed by the U.S. Senate, Ms. Fox served as the principal staff assistant to the Secretary of Defense for analyzing and evaluating plans, programs, and budgets in relation to U.S. defense objectives and resource constraints. Ms. Fox possesses three decades of experience as an analyst and research manager focusing on defense issues, with a special emphasis on operations. She formerly served as the president of the Center for Naval Analyses (CNA), a federally funded research and development center, and as the scientific analyst to the Chief of Naval Operations. Prior to her appointment as president of CNA, Ms. Fox was the vice-president and director of CNA's Operations Evaluation Group, responsible for approximately 85 field representatives focused on helping operational commanders execute their missions. She oversaw CNA's analysis of real-world operations, including the operations in Bosnia and Kosovo in the 1990's, operations in Afghanistan immediately following the September 11th attacks, and the operation in Iraq in early 2003. She served as a member of NASA's Return to Flight Task Group, chartered by the NASA Administrator to certify the recommendations made by the Columbia Accident Investigation Board. She was also a member of the advisory board of the Applied Physics Laboratory, University of Washington, from 2007 until 2009. Hon. Fox earned a bachelor of science degree in mathematics and a master of science degree in applied mathematics from George Mason University.

Alec D. Gallimore

Member

Alec D. Gallimore is the Provost and Chief Academic Officer of Duke University. Prior to coming to coming to Duke in 2023, Dr. Gallimore was the Robert J. Vlasic Dean of Engineering. Dr. Gallimore is a leader in the field of advanced spacecraft propulsion and founded a laboratory at the University of Michigan that is developing the plasma drive system that may ultimately propel humans to Mars. His work has been recognized by lifetime achievement awards such as the Wyld Propulsion Award from the AIAA, the Ernst Stuhlinger Medal from the Electric Rocket Society, and induction into the National Academy of Engineering. Before the start of his career in academia, he solidified his credentials as a rocket scientist first at Rensselaer (RPI), where he received his BS degree in aeronautical engineering, and then at Princeton, where he received his MA and Ph.D. degrees in aerospace engineering with a focus on plasma physics and advanced spacecraft propulsion. He is the author of over 360 publications, has worked at NASA (JPL and GRC), and has been the advisor to 44 Ph.D. students and 14 master's students.

Melvin Greer

Member

Melvin Greer is a globally recognized technologist, entrepreneur, and AI strategist with more than three decades of experience transforming organizations through data-driven innovation. The recently retired Intel Fellow —Intel's highest technical rank—Dr. Greer now leads as SVP and Chief Data Scientist of TechElevate Innovation Labs, an advisory and innovation firm focused on accelerating client revenue and growth via AI adoption, advancing research, and enabling ambidextrous leadership that balances breakthrough innovation with operational excellence. A Senior Advisor to the FBI and Senior Policy Advisor at UC Berkeley's Goldman School of Public Policy, Dr. Greer is uniquely positioned at the intersection of technology, national security, and policy. He holds patents in cloud computing, synthetic biology, and IoT biosensors, and has designed responsible AI frameworks for Fortune 100 companies, federal agencies, and global institutions. An academic philanthropist, he has endowed three undergraduate STEM scholarships via his non-profit, Greer Institute for Leadership and Innovation and serves on three academic advisory boards. Dr. Greer delivers actionable strategies that inspire leaders to harness AI ethically, securely, and at scale—creating lasting competitive advantage in the AI-driven economy.

Susan Landau

Member

Susan Landau is Professor of Cyber Security and Policy in Computer Science, Tufts University. Previously, as Bridge Professor of Cyber Security and Policy at The Fletcher School and School of Engineering, Department of Computer Science, Landau established an innovative MS degree in Cybersecurity and Public Policy joint between the schools. Landau's research lies at the intersection of privacy, surveillance, cybersecurity, and law. Landau has testified before Congress and frequently briefed US and European policymakers on encryption, surveillance, and cybersecurity issues. She has been a Senior Staff Privacy Analyst at Google, a Distinguished Engineer at Sun Microsystems, and a faculty member at Worcester Polytechnic Institute, the University of Massachusetts Amherst, and Wesleyan University. Landau has served on a number of committees for the National Academies of Sciences, Engineering, and Medicine, on the National Science Foundation Computer and Information Science Engineering Advisory Board, and on the National Institute of Standards and Technology Information Security and Privacy Advisory Board, as well as editor for journals in mathematics and computer science. An interdisciplinary scholar, Landau has won the McGannon Book Award for Social and Ethical Relevance in Communication Policy Research for her book co-authored with Whitfield Diffie, Privacy on the Line: The Politics of Wiretapping and Encryption, the Surveillance Studies Book Prize for Surveillance or Security: The Risks Posed by New Wiretapping Technologies, the USENIX Lifetime Achievement Award, shared with Steven Bellovin and Matt Blaze, and the American Mathematical Society's Bertrand Russell Prize. Landau is a Guggenheim fellow, a fellow of Association for Computing Machinery and of the American Association for the Advancement of Science. She is also an inductee into the Information System Security Hall of Fame and the Cybersecurity Hall of Fame. Landau received her BA from Princeton University, MS from Cornell University, and PhD from MIT.

George T. Ligler

Member

George T. Ligler is Professor and Dean’s Excellence Chair of Multidisciplinary Engineering at Texas A&M University and the proprietor of GTL Associates, a consultancy that has provided a wide range of interdisciplinary systems integration/engineering and product management services to over 40 clients on three continents. From August 2018 to joining Texas A&M in early 2022, Ligler was also, on a half-time academic year basis, the Dean’s Eminent Professor of the Practice at the University of North Carolina at Chapel Hill/North Carolina State University Joint Department of Biomedical Engineering. Ligler received the RTCA Achievement Award, RTCA’s highest award, in both 2006 and 2017 (co-recipient) for his contributions to satellite-based navigation system initiatives, ADS-B, and the development of standards for unmanned aircraft systems. Recognized as a lifetime National Associate of the National Academies in 2014, Ligler has participated in ten National Academies of Sciences, Engineering, and Medicine committees (chairing three) advising the Departments of Transportation, Treasury, and Commerce as well as the Academies’ Aeronautics and Space Engineering Board. Elected to the NAE in 2017, Ligler is a former chair of NAE Section 12, Special Fields and Interdisciplinary Engineering. Ligler holds a D.Phil. in mathematics and computation from the University of Oxford, with his studies supported by a Rhodes Scholarship.

Arthur Lupia

Member

Arthur Lupia is the University of Michigan’s Gerald R. Ford Distinguished Professor and serves as Executive Director of Bold Challenges, U-M’s interdisciplinary large-scale research initiative. From 2018-2022, Lupia served as Assistant Director of the National Science Foundation, leading its Social, Behavioral, and Economic Sciences Directorate. From 2019-2021, he co-chaired the White House Office of Science and Technology Policy’s Subcommittee on Open Science. In his research and in work with scientific organizations, Lupia offers strategy and leadership on ways to communicate more effectively and increase the public value of research. Lupia is a member of the NASEM Strategic Council for Research Excellence, Integrity, and Trust, former chair of NASEM’s Roundtable on the Communication and Use of Social and Behavioral Science and a former Advisory Board member of NASEM’s Division of Behavioral and Social Science and Education. Lupia is a recipient of Guggenheim and Carnegie Fellowships, a fellow of the American Association for the Advancement of Science, and winner of the 1998 National Academy of Sciences William O. Baker Award for Initiatives in Research. Lupia has earned Ph.D. and M.S. degrees from the California Institute of Technology and a B.A. in Economics from the University of Rochester.

Michael A. Marletta

Member

Michael A. Marletta is a faculty member at the University of California, Berkeley appointed as Professor of Chemistry in the Department of Chemistry and Professor of Biochemistry in the Department of Molecular and Cell Biology. Marletta's research is at the interface of chemistry and biology with a focus on enzyme catalysis and protein structure and function. He holds a Ph.D. in Pharmaceutical Chemistry (1978) from the University of California, San Francisco and an A.B. in Chemistry and Biology (1973) from the State University of New York, Fredonia. He was elected to the IOM (now NAM) in 1999 and the NAS in 2005. He is currently a member and co-chair of the Intelligence Community Studies Board (ISCB) of the National Academies. He served a 3-year term as Chair of Section 21 (Biochemistry) (2014-2017), Class II of the NAS, served on the NAS Nominating Committee (2015), PNAS Editorial Board (2008-2018) and Class Membership Committee, Class II, National Academy of Sciences (2010; 2021). He also served on the Membership Committee of the Institute of Medicine as Section 1 (Physical, Mathematical, Computer, Information and Engineering Sciences) Vice-Chair (2002-2003) and Chair (2003-2005).

M. Elisabeth Paté-Cornell

Member

M. Elisabeth Paté-Cornell is a Professor of Management Science and Engineering at Stanford. Her specialty is risk analysis and management of Engineering Systems, with current applications to space systems, cyber security, artificial intelligence and national security. She is a member of the NAE and of the French Academie des Technologies. She received the IEEE Ramo medal, the PICMET Award for Leadership in Technology Management, and the U.S. Air Force Award for Meritorious Civilian Service. She is a Distinguished Visiting Scientist of NASA JPL, a fellow of INFORMS, a Past-president and Fellow of the Society for Risk Analysis and a Chevalier de l'Ordre National du Mérite, France. Her PhD is in Engineering-Economic Systems and her Master's in Operations Research, both from Stanford. She was a member of the State Department International Security Advisory Board, and she received several best paper awards. She is a Member of the NAE Intelligence Science and Technology Experts Group (ISTEG), of the NRC Report Review Committee (RRC) and until recently, co-chair of the NASEM Committee on Risk Analysis Methods for Nuclear War and Terrorism. Before that, she was a member of the National Academies Advisory Committee for the Division on Engineering and Physical Sciences.

Francisco F. Roberto

Member

Francisco F. Roberto retired as a Director, Processing at Newmont Corporation in 2025. From 2012 to 2025 he also held the positions of senior and chief metallurgist, acting laboratory director in the corporate metallurgy lab, and senior manager in process development and process innovation. Prior to joining Newmont, he directed and executed biotechnology R&D programs at the U.S. Department of Energy's Idaho National Laboratory (INL) for 23 years, in areas ranging from bioleaching to biodefense, and rose from senior scientist to directorate fellow. Forty years of broad experience in industrial microbiology including plant-microbe interactions, biomining of gold and copper at commercial scale, metallurgical project development from concept to pre-feasibility and piloting, fundamental understanding and application of acidophilic bacteria, archaea and viruses in natural and engineered extreme environments, fermentation of recombinant microbes, hands-on operation and management of biocontainment laboratories up to BSL-3 with CDC/USDA priority/select agent bacterial pathogens. Elected into the National Academy of Engineering in 2020 for "advancing biotechnical applications for environmentally responsible mine production." He is also a registered member of the Society for Mining, Metallurgy, and Exploration (SME) and a Specialist Microbiologist in Biological Safety in the National Registry of Certified Microbiologists (NRCM). He was also a practicing Certified Biological Safety Professional (CBSP; ABSA International) from 2005-2016. Received a BS in biochemistry and biophysics from the University of California, Davis (1980), and a PhD in biochemistry from the University of California, Riverside (1985). He was a postgraduate fellow in the Dept. of Plant Pathology at UC Davis from 1984-1988 before joining the Idaho National Laboratory.

Dorothy Robyn

Member

Dorothy Robyn is a Senior Fellow with Boston University's Institute for Global Sustainability, and she writes on public policy issues related to clean energy, transportation and infrastructure. From 2009-2014, Dr. Robyn served in the Obama Administration, first as a Deputy Under Secretary for the Department of Defense with department-wide management responsibility for U.S. military bases worldwide, and later as the Public Buildings Commissioner at the U.S. General Services Administration. During the Clinton Administration, she spent eight years on the staff of the White House National Economic Council, where she coordinated policy issues related to aviation and transportation, defense and aerospace, telecommunications, and science and technology policy. Dr. Robyn has also been a principal with The Brattle Group, an economic consultancy; an assistant professor at Harvard's Kennedy School; and a guest scholar at the Brookings Institution. She currently serves on the World Resources Institute's Global Leadership Council and the boards of the Information Technology & Innovation Foundation and U.S. Ignite, an NSF-funded organization to promote smart cities. Dr. Robyn is the co-author, with William J. Baumol, of "Toward an Evolutionary Regime for Spectrum Governance: Licensing or Unrestricted Entry?" (Brookings Press, 2006) and author of "Braking the Special Interests: Trucking Deregulation and the Politics of Policy Reform" (University of Chicago Press, 1987). She holds a B.A. from Southern Illinois University and an MPP and Ph.D. in public policy from the University of California at Berkeley.

Keivan G. Stassun

Member

Keivan G. Stassun holds the Stevenson chair in Astrophysics, and holds secondary appointments in Computer Science and in Management, at Vanderbilt University, where he was previously the recipient of an NSF CAREER award, a Cottrell Scholar award from the Research Corporation for Science Advancement, an HHMI Professor award from the Howard Hughes Medical Institute, and a Ford Foundation Diversity Fellowship from the National Academy of Sciences. Stassun is a deputy lead investigator for NASA's Ultraviolet Explorer (UVEX) mission, co-investigator for NASA's Transiting Exoplanet Survey Satellite (TESS) mission, chairs the executive committee of the Sloan Digital Sky Survey, serves on the National Academy of Sciences Space Studies Board, and recently served on the National Academy of Sciences Decadal Steering Committee for Astronomy & Astrophysics. An elected Fellow of the American Physical Society, the American Astronomical Society, the American Association for the Advancement of Science, Sigma Xi, and an elected Member of the American Academy of Arts & Sciences, his research on stars and exoplanets has appeared in more than 600 peer-reviewed journal articles, with an emphasis on developing new data-driven methods for making precise measurements of the fundamental physical properties of stars and planets. From 2004 to 2015, he served as founding director of the Fisk-Vanderbilt Masters-to-PhD Bridge Program, which has become one of the nation's top producers of PhDs to underrepresented minorities in the physical sciences. Having trained more than fifty PhD students and postdoctoral scholars from diverse backgrounds, Stassun is a leader and advocate for broadening participation of individuals from underrepresented groups in STEM fields, especially underrepresented minorities, women, and persons with disabilities. He has served on NSF's Committee for Equal Opportunity in Science and Engineering, chaired the American Astronomical Society's Committee on Minorities, is a recipient of the American Physical Society's Nicholson Medal for Human Outreach, has been named Mentor of the Year by the American Association for the Advancement of Science, and has been honored with a Presidential Award for Excellence in Science Mathematics and Engineering Mentoring. Stassun currently serves as founding director of the Frist Center for Autism & Innovation in Vanderbilt's School of Engineering, focused on advancing science and engineering through the engagement and workforce development of autistic individuals and those with other forms of neurodiversity. In 2023, Stassun was appointed to a six-year term on the National Science Board by President Joseph R. Biden, and in 2024 was named a MacArthur "Genius" Fellow.

Katherine A. Yelick

Member

Katherine Yelick is the Vice Chancellor for Research and the Robert S. Pepper Distinguished Professor of Electrical Engineering and Computer Sciences at the University of California, Berkeley. She is an internationally recognized expert in high-performance computing. Her research interests include parallel programming languages, automatic performance tuning, parallel algorithms, and computational genomics. Yelick concurrently holds a senior faculty scientist appointment at Lawrence Berkeley National Laboratory, where she was an associate lab director of the Computing Sciences Area from 2010 through December 2019. Yelick was also Director of the National Energy Research Scientific Computing Center (NERSC) from 2008 through 2012. Dr. Yelick earned her Ph.D. in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology.

Tina Bahadori

Executive Director

Tina Bahadori is the Executive Director of the Division of Engineering and Physical Sciences. She came to the Academies from US Environmental Protection Agency's Office of Research and Development where she served in several influential positions, including as Senior Science Advisor, Director of the National Center for Environmental Assessment, National Program Director (NPD) for the Human Health Risk Assessment, and NPD for Chemical Safety for Sustainability. Before joining EPA, she was the Managing Director of the Long-Range Research Initiative at the American Chemistry Council and prior to that, Manager, Air Quality Health Integrated Programs, at the Electric Power Research Institute. For the Academies, she has served on the Chemical Sciences Roundtable, as a member of the Board on Environmental Studies and Toxicology and several of its ad hoc committees, including one focused on the environmental health and safety of engineered nanomaterials. Dr. Bahadori served as a member of the Advisory Committee for Environmental Research and Education for the National Science Foundation. She is a past president of the International Society of Exposure Science and is an associate editor of the Journal of Exposure Science and Environmental Epidemiology. Dr. Bahadori holds a doctorate in environmental science and engineering from the Harvard School of Public Health. From MIT, she holds a Master of Science in Chemical Engineering and Technology and Policy, as well as Bachelor of Science degrees in Chemical Engineering and in Humanities.