The Committee on Women in Science, Engineering, and Medicine

Committee

Elena Fuentes-Afflick

Chair

Elena Fuentes-Afflick, MD, MPH, is the Association of American Medical Colleges (AAMC) Chief Scientific Officer and leads the association's programs that support medical research and the training of physician-scientists and researchers in academic medicine. She provides leadership and vision for addressing research and science policy and other related critical issues facing academic medicine, medical schools, teaching health systems, and teaching hospitals. Before joining the AAMC, Dr. Fuentes-Afflick served as professor of pediatrics at the University of California, San Francisco (UCSF) and vice dean for the UCSF School of Medicine at Zuckerberg San Francisco General (ZSFG) Hospital. She previously served as chief of pediatrics at ZSFG and vice dean for academic affairs for the UCSF School of Medicine. An elected member of the National Academy of Medicine and the American Academy of Arts and Sciences, Dr. Fuentes-Afflick's scholarly work has focused on Latino health, acculturation, immigrant health, health disparities, faculty misconduct, and diversity in academic medicine. Dr. Fuentes-Afflick has served in national leadership roles for the Society for Pediatric Research, the American Pediatric Society, and the National Academy of Medicine. In 2023, she received the Joseph W. St. Geme, Jr. Leadership Award from the Federation of Pediatric Organizations for sustained, impactful contributions to child health. Dr. Fuentes-Afflick earned her undergraduate and medical degrees at the University of Michigan and a master's degree in public health from the University of California, Berkeley. She completed her pediatric residency and chief residency at UCSF, followed by a research fellowship at the UCSF Philip R. Lee Institute for Health Policy Studies.

Sandra Begay

Member

Sandra K. Begay (Retired) was a Principal Member of the Technical Staff at Sandia National Laboratories and former Regent (Trustee) for the University of New Mexico. Sandra led Sandia's technical efforts to assist Native American tribes with their renewable energy developments. Sandra received a Bachelor of Science - Civil Engineering degree from the University of New Mexico.

She worked at Lawrence Livermore National Laboratories before she earned a Master of Science - Structural Engineering degree from Stanford University. Sandra is recognized in a book profiling women engineers, "Changing Our World: True Stories of Women Engineers." Begay-Campbell is included in the chapter "Women in Power", which describes her effort to provide electricity through solar panels and other alternative energy solutions to hundreds of remote tribal members on the Navajo Reservation.

Honored with awards for her work, Sandra is a recent recipient of the American Indian Science and Engineering Society's Life-time Achievement Award; the University of New Mexico's 2007 Zia Alumnus Award; the 2005 UNM School of Engineering Distinguished Alumnus Award and she received the Stanford University 2000 Multicultural Alumni of the Year Award. She was also selected as a recipient of the Governor's Award for Outstanding Women from the New Mexico Commission on the Status of Women.

Dianne Chong

Member

DIANNE CHONG, Ph.D., NAE, FSME, FASM, FABET, was vice president in The Boeing Company's Engineering, Operations & Technology organization where she led materials and manufacturing research and development and production program integration. Chong was elected to the National Academy of Engineering (NAE) and Washington State Academy of Science in 2017. She serves on the NAE Council and co-chairs EngineerGirl. She is a member of the Governing Board of the National Research Council and a member of the National Academies of Sciences, Engineering, and Medicine's Division of Behavioral and Social Sciences and Education. She serves on the National Science Foundation Directorate for Engineering Advisory Committee. Chong is past president of ABET (formerly the Accreditation Board for Engineering and Technology, Inc.) and serves on its Inclusion, Diversity, and Equity Advisory Council. Chong is past president and Fellow of the SME (formerly the Society for Manufacturing Engineers). She is a fellow of ASM and in 2007-2008 was elected its first female president. She received an award for alumna achievement from the University of Illinois in 2019 and has received numerous technical and diversity awards. She was inducted into the first class of the Women in Manufacturing Hall of Fame. Chong received bachelor's degrees in biology and psychology, and master's degrees in physiology and metallurgical engineering. Chong received her doctorate in metallurgical engineering from the University of Illinois. She has an Executive Master of Manufacturing Management degree from Washington University and a green belt in Six Sigma. Chong is a member of The Minerals, Metals & Materials Society (TMS), American Institute of Aeronautics and Astronautics (AAIA), ASM International (formerly the American Society for Metals, Society of Women Engineers (SWE), Beta Gamma Sigma, and Tau Beta Pi.

Lilia Cortina

Member

Lilia M. Cortina, Ph.D., is a University Diversity and Social Transformation Professor of Psychology, Women's and Gender Studies, and Management and Organizations at the University of Michigan. She investigates the many ways in which people are subordinated, violated, and relegated to the margins of organizational life. To date, Cortina has published over 100 scholarly works on sexual harassment and incivility in organizations. This research has won awards, but its impact stretches beyond the walls of the academy. For instance, she is regularly called to serve as an expert witness, translating findings from social science to inform policy and legal decision-making. She provided expert testimony to a panel commissioned by Congress to review military judicial procedures surrounding sexual assault. She also testified to the U.S. Equal Employment Opportunity Commission's (EEOC) Select Task Force on the Study of Harassment in the Workplace. Cortina joined colleagues in co-authoring a landmark report on sexual harassment for the National Academies of Sciences, Engineering, and Medicine. In recognition of their unusual and outstanding contributions to the field, Lilia Cortina has been named a Fellow of the American Psychological Association and the Society for Industrial/Organizational Psychology.

Ruth Cotter

Member

RUTH COTTER, BA, is Senior Vice President and Chief Administrative Officer at AMD, where she leads the integrated Corporate Operations Group overseeing Marketing, Communications, Human Resources, Corporate Security, Information Technology, and Indirect Procurement. With more than 25 years of experience in technology, she has helped scale AMD through periods of hypergrowth and guided major acquisition integrations. Throughout her tenure, Cotter has driven marketing and HR initiatives that strengthened AMD’s brand, advanced executive visibility, and supported the doubling of the company’s global workforce with a focus on belonging and inclusion. Since joining in 2002, Ruth’s expertise spans across corporate operations, global marketing and communications, human resources, investor relations, crisis management, and cultural transformation. She serves on the Global Semiconductor Alliance Women’s Leadership Council and has been recognized on the PRWeek US Power List (2024), Technology Magazine’s Top 100 Women in Technology, and the National Diversity Council’s Top 50 Most Powerful Women in Tech. She holds a Bachelor of Arts in Economics and History from University College Cork, Ireland, where she recently received the prestigious UCC Alumni Award.

Nicholas M. Donofrio

Member

Nicholas M. Donofrio began his career in 1964 at IBM, where he remained for 44 years in increasingly responsible roles, including those of division president for advanced workstations, general manager of the large-scale computing division, and executive vice president of innovation and technology. He is a member of several technical societies including Sigma Xi, Tau Beta Pi, Eta Kappa Nu as well as the Society of Women Engineers. Donofrio is a Life Fellow of the Institute for Electrical and Electronics Engineers, a Fellow of the UK-based Royal Academy of Engineering, a Fellow of the American Academy of Arts and Sciences, a member of the US-based National Academy of Engineering, a member of the New York Academy of Science and the CT Academy of Science and Engineering. He served a term as a Senior Fellow at the Kauffman Foundation (2009-2012). He also served on the US Secretary of Energy's Advisory Board (2008-2012). He was a member of the CT Board of Regents for Higher Education (2011-2016 and as Board Chairman from 2013-2016).

He is an Executive in Residence and Industry Advisory at Northeastern University's Center for Technology Management and Digital Leadership.

He serves as Chairman of the Board of Quantexa (London, England) and Chairman of the Board of Sproxil Corporation (Cambridge, MA). He served as co-chair of the Board of the New York Hall of Science (2007-2017) and now serves as Chairman Emeritus.

He is a member of the board of HYPR Corp (Lead Director), Security Score Card, New York Genome Institute, Syracuse University (Life Trustee), National Association of Corporate Directors, Medici Group, The Center for Advancing Innovation, and Ravenpod Inc. He was recently named as a founding Trustee for the USA National Semiconductor Technology Center's operator Natcast.

He served as a board member of National Action Council for Minorities in Engineering (1982-2002 and as Board Chair 1997-2002), Clarkson University (1987-1992), RPI (1993-2013), InRoads National Board (2004-2008), TopCoder (2009-2013), O'Brien & Gere (2013-2016), BNY Mellon (1998-2017), Liberty Mutual (2010-2018), AMD (2009-2018), APTIV (2009-2022), MITRE (2010-2022), Peace Tech Lab (2008-2023).

He currently serves as an advisor to Epirus, Tera Group, Bloom Value, X994, Grey Market Labs, Mitchells, Cultiv Ventures, and StarVest Partners.

He earned a Bachelor of Science degree in Electrical Engineering from Rensselaer Polytechnic Institute in 1967 and a Master of Science in the same discipline from Syracuse University in 1971.

In 1999, he was awarded an honorary doctorate in Engineering from Polytechnic University (now NYU); in 2002, he received an honorary doctorate in Sciences from the University of Warwick, England; in 2005, he was awarded an honorary doctorate in Technology from Marist College; in 2006 he received an honorary doctorate in Sciences from the University of Edinburgh, Scotland. Pace University awarded him an honorary doctorate in Sciences in 2009; the National University of Ireland, Maynooth awarded him an honorary doctorate in Sciences in 2010; in 2011, he was

awarded an honorary degree in science from Syracuse University; and in 2017, he was awarded an honorary degree in humane letters from Southern VT College. In 2018, he was awarded an honorary Associate Degree from Naugatuck Valley Community College. And in 2019 he was awarded an honorary doctorate in engineering from Drexel University.

Mr. Donofrio is focused sharply on advancing education, employment, and career opportunities for underrepresented minorities and women. He served for many years on the Board of Directors for the National Action Council for Minorities in Engineering (NACME) and was NACME's Board chair from 1997 through 2002. He served on the National Board of Directors for INROADS (2005-2008), a non-profit organization focused on the training and development of talented minority youth for professional careers

in business and industry. In 2005, Mr. Donofrio was appointed by the U.S. Department of Education to serve on the Commission on the Future of Higher Education, a 20-member delegation of business and university leaders charged with developing a new national strategy for post-secondary education that will meet the needs of Americas diverse population and address the economic and workforce needs of the country's future. In 2006, he was named IBM’s delegate to the World Business Council for Sustainable Development, a coalition of 190 companies united by a shared commitment to economic growth, ecological balance, and social progress. Circa 2003-5, he was one of the key leaders for the US Council on Competitiveness’ National Innovation Initiative study and report ‘Innovate America’.
In 2002, Mr. Donofrio was recognized by Europe's Institution of Electrical Engineers with the Mensforth International Gold Medal for outstanding contributions to the advancement of manufacturing engineering. In 2003, he was named Industry Week Magazine’s Technology Leader of the Year, the University of Arizona's Technical Executive of the Year, and was presented with the Rodney D. Chipp Memorial Award by the Society of Women Engineers for his outstanding contributions to the advancement of women in the engineering field. In 2005, he was honored by CNBC with its Overall Technology Leadership Award. In 2006, he was honored by The Cooper Union for the Advancement of Science and Art with the Urban Visionaries Award for Engineering, was named one of Business Week magazine’s 25 Top Innovation Champions, and received the Robert Fletcher Award from Dartmouth College’s Thayer School of Engineering for distinguished achievement and service. In 2008, he was honored with SHPE’s Renaissance Engineer award.

In 2008, for his leadership in supporting the US Government’s need for high-performance computing as the NNSA managed our country’s nuclear stockpile and weapons systems, the NNSA presented Nick with their Gold Medal for Distinguished Service, the first time the agency honored an individual who was not a government employee.

He formed NMD Consulting in 2008 as he graduated from IBM.

His autobiography, If Nothing Changes, Nothing Changes, was released on May 31, 2022.

Sharon K. Inouye

Member

Professor of Medicine at Harvard Medical School, Milton & Shirley F. Levy Family Chair and Director of the Aging Brain Center at the Marcus Institute for Aging Research, Hebrew SeniorLife, and Editor-in-Chief of JAMA Internal Medicine.

Dr. Inouye has significantly impacted health and Medicine through her seminal research in cognitive disorders of aging, including delirium and dementia, and through her leadership in health innovation. She has combined her clinical acumen with expertise in epidemiology, public health, and public policy to revolutionize how we provide clinical care for older adults. As a preeminent physician-scientist, Dr. Inouye has been continuously funded by the National Institutes of Health since 1989. She has held >90 grants, including a current >$13 million NIH-P01 grant and a >$10 million PCORI contract. She has published >400 articles, many in the highest impact journals (H-index =116), named by Thomson Reuters ScienceWatch as one of the World's Most Influential Scientific Minds of the Decade, and Best Female Scientists in the World 2022 Ranking by Research.com.

Among her many honors are the Leonard Tow Humanism in Medicine Award from the Arnold P. Gold Foundation (2005), the Henderson Award from the American Geriatrics Society (2013), the M. Powell Lawton Award from the Gerontological Society of America (2015), Honorary Fellow of the American Academy of Nursing (2018), PBS-Next Avenue Influencer of Aging (2020), and the American College of Physicians John Phillips Memorial Award for Outstanding Work in Clinical Medicine (2023). She is an elected member of the American Society of Clinical Investigation (ASCI), the Association of American Physicians (AAP), and the National Academy of Medicine (NAM). She serves on the NASEM Health Care Services Board and the NACA-NIA Council.

She completed her BA at Pomona College, MD at the University of California San Francisco and MPH at Yale University School of Medicine. She completed her internal medicine residency at UCSF and the Beth Israel Deaconess Medical Center at Harvard Medical School.

Reshma Jagsi

Member

Reshma Jagsi, M.D., D.Phil., is Newman Family Professor and Deputy Chair in the Department of Radiation Oncology and Director of the Center for Bioethics and Social Sciences in Medicine at the University of Michigan.

She graduated first in her class from Harvard College and then pursued her medical training at Harvard Medical School. She also served as a fellow in the Center for Ethics at Harvard University and completed her doctorate in Social Policy at Oxford University as a Marshall Scholar.

An internationally recognized clinical trialist and health services researcher, Dr. Jagsi's medical research focuses on improving the quality of care received by breast cancer patients, both by advancing the ways in which breast cancer is treated with radiation and by advancing the understanding of patient decision-making, cost, and access to appropriate care. Her research in this area is funded by an NIH R01 grant to evaluate an intervention to help support women with breast cancer and their physicians to make high quality decisions. She is also supported by the Susan G. Komen Foundation to lead research on inflammatory breast cancer and innovative radiotherapy approaches to intensify treatment in that setting. She led the national IDEA trial to investigate approaches for radiation treatment de-escalation among patients with biologically favorable breast cancer, and she is active in the National Cancer Institute's cooperative groups, including SWOG and NRG. She also serves on the NCI's BOLD task force on locoregional management of breast cancer.

A substantial focus of her research considers issues of bioethics and gender equity in academic medicine. Her investigations of women's under-representation in senior positions in academic medicine and the mechanisms that must be targeted to promote equity have been funded by an NIH R01 grant and grants from the Robert Wood Johnson Foundation, AMA, and other philanthropic funders. She leads the national program evaluation for the Doris Duke Charitable Foundation's Fund to Retain Clinician Scientists, a large national intervention that was inspired in part by her own research. She also leads an NIH R01-funded investigation using deliberative democratic approaches to illuminate patients' attitudes towards secondary use of data collected in routine clinical encounters and a current Greenwall Foundation-funded investigation of patient attitudes towards approaches used by hospitals to encourage donations from grateful patients.

Active in organized medicine, she has served on the Steering Committee of the AAMC's Group on Women in Medicine in Science and now serves on the Board of Directors of the American Society of Clinical Oncology. She was part of the Lancet's advisory committee for its theme issue on women in science, medicine, and global health.

Dr. Jagsi's work is frequently featured in the popular media, including coverage by the New York Times, Wall Street Journal, Washington Post, NPR, and national network nightly news. Frequently invited as a keynote speaker, she has delivered invited talks at over 50 institutions and professional societies, including the AAMC, the NIH, and the National Academy of Medicine and National Academy of Sciences. Her contributions have been recognized with her election to the American Society of Clinical Investigation and the Leadership Award of the AAMC's Group on Women in Medicine and Science. She has been elected fellow of ASTRO, ASCO, AAWR, and the Hastings Center.

Susan A. Johnson

Member

SUSAN JOHNSON, MBA, is AT&T chief transformation and supply chain officer. She leads AT&T’s Corporate Transformation Office, responsible for coordination and decision making for enterprise-wide IT and network transformation initiatives. Susan and her team are critically focused on managing several multi-year transformation efforts to modernize AT&T billing and operating platforms and upgrade core network infrastructure to ensure faster innovation cycles with AI capabilities. As part of this, Susan also heads the legacy wireline business segment with a strategy to optimize profitability while upgrading customers using copper services to next-generation technologies and retire the copper network.

Ms. Johnson also oversees Supply Chain functions supporting Consumer, Business and Technology and Operations at AT&T. Her team manages strategic sourcing, purchasing, supplier sustainability, and supply chain logistics. Jointly, her organization is responsible for a spend portfolio of $608B that covers all of AT&T’s technology, network and goods and services globally. Under her leadership, AT&T’s supply chain was identified as being among 8 companies best prepared to deal with the current global supply chain issues.

Ms. Johnson holds a Master of Business Administration from The Wharton School, University of Pennsylvania and a Bachelor of Arts in economics from Northwestern University. She serves on the Board of Sanmina Corporation, a global integrated manufacturing solutions provider.

Lydia E. Kavraki

Member

LYDIA E. KAVRAKI, Ph.D., is the Kenneth and Audrey Kennedy Professor of Computing and University Professor at Rice University. She also serves as the director of the Ken Kennedy Institute for AI and Computing at Rice. Her research covers robotics, computational biomedicine, and physical AI. In robotics, Kavraki is interested in enabling robots to work with people and in support of people. Her work develops the underlying computational methodologies necessary to achieve this goal. In biomedicine, Kavraki employs a robotics-engineering-inspired approach to develop computational methods and tools that model protein structure and function, thereby aiding the process of medicinal drug discovery. Kavraki is also broadly interested in enabling computers to reason effectively and robustly about problems in the real world and the development of physical AI. Kavraki's more than 40 postdocs and Ph.D. students have gone on to faculty positions at top universities, industry research labs, startups, and large software companies. She is a member of NAE, NAM, NAS, and the American Academy of Arts and Sciences. Kavraki completed her Ph.D. degree at Stanford University.

Wendy Masiello

Member

WENDY M. MASIELLO, MS, retired from the United States Air Force as a Lieutenant General, and is president of Wendy Mas Consulting, LLC.

Prior to her retirement, General Masiello was Director of Defense Contract Management Agency, Deputy Assistant Secretary (Contracting), Office of the Assistant Secretary of the Air Force for Acquisition, and Program Executive Officer for the Air Force's $65 billion dollar Service Acquisition portfolio. She commanded the 96th Air Base Wing at Edwards Air Force Base CA and deployed to Iraq and Afghanistan as Principal Assistant Responsible for Contracting for Forces.

She is currently a director on five corporate boards, the Procurement Round Table and a member of the National Academy's Capability Development Panel under the Air Force Studies Board. In 2021, Masiello co-chaired the National Academy's study "Improving Defense Acquisition Workforce Capability in Data Use" sponsored by the Department of Defense.

Harriet B. Nembhard

Member

Harriet B. Nembhard, the sixth president of Harvey Mudd College, is a distinguished industrial engineer and collaborative academic leader. With a background in technical innovation within healthcare systems, she brings a unique perspective to her role. President Nembhard is dedicated to promoting inclusive excellence and is actively engaged in initiatives to broaden participation in undergraduate STEM education. Her leadership focuses on preparing students to become socially conscious leaders, emphasizing the impact of their work on society and equipping them with skills for increasing their well-being and building a joyful life. She is an elected fellow of the American Society for Quality, the Institute of Industrial and Systems Engineers, and the American Institute for Medical and Biological Engineering, and currently serves on the National Academies of Sciences, Engineering, and Medicine Roundtable on Systemic Change in Undergraduate STEM Education. She earned a BA in management from Claremont McKenna College, a BS in industrial engineering from Arizona State University, and an MS and PhD in industrial and operations engineering from the University of Michigan.

Fay Cobb Payton

Member

Dr. Fay Cobb Payton is a Professor Emerita and was a Full Professor (with Tenure) of Information Technology/Analytics at NC State University. She is currently the Special Advisor to the Chancellor for Innovation at Rutgers University - Newark (RU-N). She is the inaugural director of the Institute for Data, Research, & Innovation Science (IDRIS) at RU-N, a Mathematics and Computer Science Professor, and an Affiliate Faculty at the New Jersey School of Medicine. She served as an NSF Program Director, initiated the CISE Minority Serving Institution Research Expansion Solicitation, and worked on initiatives such as Smart Health and Biomedical Research in the Era of AI and Advanced Data Science, AI Fairness, Equity, Accountability and transparency, and Research Expansion via Cloud Computing with partnerships with Amazon, Google, and Microsoft. She received the NSF Director’s Award during her time at the agency. She led the NSF support of the NASEM Consensus Study on Transforming Trajectories: Women of Color in Tech and now serves on its dissemination team. She serves on the National Artificial Intelligence Research Resource Pilot subcommittee. Her research covers data quality, AI bias/ethics, health tech, innovation, and tech inclusion. Dr. Payton worked in industry as an engineer, developer, and consultant prior to earning her doctoral degree. She is the author of Leveraging Intersectionality: Seeing and Not Seeing. She serves on several boards and advisory groups.

Manuel Perez-Quinones

Member

Dr. Manuel A. Pérez Quiñones is Professor of Software and Information Systems at the University of North Carolina at Charlotte (UNCC). His research interests include personal information management, human-computer interaction, CS education, and diversity issues in computing.

He holds a DSc from The George Washington University and a BA & MS from Ball State University. He has published over 100 refereed articles. Before joining UNCC, he worked at Virginia Tech, University of Puerto Rico-Mayaguez, Visiting Professor at US Naval Academy, and as a Computer Scientist at the Naval Research Lab. He is originally from San Juan, Puerto Rico.

He currently serves as Chair of the Latinx Caucus at UNCC. He was a founding member and vice-president of the board for the Virginia Academic Latino Higher Education Network (VALHEN), a non-profit dedicated to the academic advancement of Latinos in the state of Virginia.

He was Program Co-Chair (2009) and Program Chair (2014) for the ACM Tapia Celebration of Diversity in Computing Conference; Program Co-chair (2018) and Symposium Co-Chair (2019) for the SIGCSE Technical Symposium. At Virginia Tech he served as a Multicultural Fellow, a founding member and former chair of the Hispanic/Latino Faculty and Staff Caucus, Associate Dean of the Graduate School and Director of the Office for Graduate Recruitment and Diversity Initiatives.

He is an NSF CAREER Awardee (1998) and a featured TEDx UNCC speaker (2020). In 2011, he was recognized with the Dean’s Award for Excellence in Service (College of Engineering, Virginia Tech). He has received Service Awards from ACM (2009, 2019) and in 2017 became an ACM Senior Member. He has received numerous recognitions for his service in diversity in computing, earning: ACM Distinguished Member for his contributions to Computing Education (2019); CRA Nico A. Haberman award for his contributions aimed at increasing the numbers and/or successes of underrepresented members in the computing research community (2018); Richard A. Tapia Achievement Award for Scientific Scholarship, Civic Science and Diversifying Computing (2017).

Bernice A. Pescosolido

Member

BERNICE A. PESCOSOLIDO, Ph.D., is Distinguished Professor of Sociology at Indiana University and Founding Director of the Indiana Consortium for Mental Health Services Research (ICMHSR) and the new Irsay Institute that targets research in the sociomedical sciences. She is an elected member of both the National Academy of Medicine and the National Academy of Sciences. Trained as a medical sociologist at Yale, her research focuses on connectedness and suicide, the stigma of mental illness and addiction, international issues in health and health care, and social networked pathways to treatment. Her concerns have spanned local, national, and international questions and problems, primarily targeting mental illness. In particular, she is concerned with how social and organizational networks facilitate or frustrate people's responses to problems. Pescosolido's research, supported by several NIH Institutes, NSF and private philanthropy, has been published broadly across scientific and policy journals. She has received several career, teaching, and mentoring awards (e.g., NARSAD's Distinguished Investigator Award, the Taube Award from APHA, the American Sociological Association, Yale's Wilbur Lucius Cross Medal, and the 2023 Simmel Award from the International Network for Social Network Analysis). She is currently involved as a scientific advisor/organizer for several national stigma reduction efforts.

Deborah Stokes

Member

DEBORAH STOKES, MBA, has served in various ICT leadership positions for 35+years in both academia and industry, working with large global technology firms such as Nortel, FutureWei, EMC, and Dell Technologies. She has additional experience in the education vertical.

Her career expertise spans R&D, external research, university interaction, business development, operations, and marketing/communications; all providing opportunities to utilize her skills in program management, technology management, innovation, cross organization collaboration, knowledge management and leadership. Deborah has a broad knowledge and understanding of emerging technologies and business/societal implications of those technologies.

In addition to her current role as Leader, Academic and External Research for Dell Technologies Global Office of the CTO, Deborah serves on various university advisory boards, including the MIT Media Lab Liaison Program Committee and the UCSD SPARK AI Founding Member Board. She is the 2024-26 President of the International Society of Service Innovation Professionals (ISSIP) and serves as the Dell representative for the University Industry Demonstration Partnership (UIDP). Deborah has recently been named to the National Academies of Sciences, Engineering, and Medicine (NASEM) Government-University-Industry-Philanthropy Research Roundtable [nationalacademies.org] (GUIPRR) Council.
Deborah is a recognized speaker on best practices in academic research and innovation who has numerous publications in the technology management field.

Deborah is the Chair for the internal Dell Technologies Technical Exploration Conference (TEx), an internal forum established in 2018 for sharing/networking/connecting across the Dell Technologies global technical community. Deborah earned her Bachelor of Science in Business Administration and later completed an Executive MBA at the University of Texas at Dallas, concentrating on Managing for Change. She is currently advancing her studies as a Doctor of Business Administration candidate at Liberty University, with a focus on Strategic Leadership.

Aurora Taylor-Rojas

Member

AURORA TAYLOR-ROJAS, M.Eng., is a recently retired engineering and technology executive, most recently serving as Vice President of Engineering for L3Harris Technologies' Communication Systems segment. In this role, Taylor-Rojas led a team of over 3,000 engineers, driving innovation in communications systems for DoD and working closely with leaders in the national defense space.

With more than 30 years of experience across multiple engineering disciplines, Taylor-Rojas has shaped technical program performance, advanced technology solutions, and fostered multidisciplinary collaboration. Her career began as an RF engineer and progressed through systems engineering and various leadership roles, culminating in executive positions that influenced industry strategy and technical excellence.

Taylor-Rojas holds both bachelor's and master's degrees in electrical engineering from the University of Utah. Born in Durango, Mexico, she is fully bilingual in Spanish and English, bringing an international perspective to her work and advocacy.

Nancy C. Andrews

Ex Officio Member

Nancy Andrews is Executive Vice President and Chief Scientific Officer at Boston Children's Hospital. She assumed that position after more than a decade at Duke University, where she served as Dean of the School of Medicine. Earlier in her career, she was the George Richards Minot Professor of Pediatrics at Harvard Medical School and Boston Children's Hospital and an investigator of the Howard Hughes Medical Institute. Her laboratory discovered molecules important in mammalian iron homeostasis and worked out the molecular causes of several diseases characterized by abnormal iron handling. In addition to the NAS, Andrews is an elected member of the NAM and the American Academy of Arts and Sciences. She is a past president of the American Society of Clinical Investigation and a past Chair of the Board of the American Academy of Arts and Sciences. She currently serves on the Boards of Directors of Novartis, Charles River Laboratories, and Maze Therapeutics. Andrews earned her B.S. and M.S. from Yale, her Ph.D. from M.I.T., and her M.D. from Harvard Medical School. She did her clinical training in pediatric hematology and oncology at Boston Children's Hospital and Dana-Farber Cancer Institute.

Carol K. Hall

Ex Officio Member

Carol K. Hall is the Worley H. Clark, Jr. Distinguished University Professor of Chemical and Biomolecular Engineering at North Carolina State University, and joined that department in 1985. She was one of the first women in the U.S. to be appointed to a chemical engineering faculty, having served at Princeton University from 1977 to 1985. Previously, she received postdoctoral training in the Chemistry Department at Cornell University and worked for a brief period as an economic modeler at Bell Laboratories.

Dr. Hall's research focuses on applying statistical thermodynamics and molecular-level computer simulation to topics of chemical, biological or engineering interest involving macromolecules or complex fluids. Current research topics include protein folding/aggregation, multipolar colloids, protein design, drug delivery devices, and peptide co-assembly. Her research involves molecular-level computer simulation, self-assembly of soft materials, and design of synthetic peptides. She was one of the first researchers to apply statistical mechanics to non- molecular systems (colloids) and to simulate spontaneous amyloid formation in systems of proteins. Hall served as the founding co-director of the NSF's Research Triangle Materials Research Science and Engineering Center (MRSEC) on Soft Matter, and as Meeting Program Chair for the Centennial Meeting of the American Institute of Chemical Engineers, as well as a member of their Board of Directors.

Dr. Hall was elected to the NAE in 2005 for applications of modern thermodynamic and computer-simulation methods to chemical engineering problems involving macromolecules and complex fluids. She has served on the NAE Membership Policy Committee, Committee on Membership (member, peer committee chair), Nominating Committee, Chemical Engineering Peer Committee (chair; vice chair, member), Section 03 Executive Committee (peer committee chair), and Bernard M. Gordon Prize Committee.

In 2015, she won the Foundations of Molecular Modeling and Simulation Medal for profound and lasting contributions by one or more individuals to the development of computational methods and their application to the field of molecular-based modeling and simulation. That year she was also awarded the American Institute of Chemical Engineers Founders Award for Outstanding Contributions to the Field of Chemical Engineering. In 2019 she received the John M Prausnitz Award for productive contributions of high impact to the areas of the PPEPPD Conferences. The author of more than 275 publications, she is a fellow of the American Institute of Chemical Engineers, the American Physical Society, and the American Association for the Advancement of Science.

She earned her BA in physics from Cornell University in 1967, and MA and PhD in 1969 and 1972, respectively, from The State University of New York at Stony Brook.

Howard B. Rosen

Ex Officio Member

Ashley Bear

Staff Officer