



## **Division Committee Member Biographies**

### **CHAIR**

**Dr. David E. Daniel, NAE**  
***University of Texas at Dallas (Emeritus)***

Dr. David Daniel is president of The University of Texas at Dallas. Previously, he was Dean of Engineering at the University of Illinois. Earlier, Dr. Daniel was L.B. Meaders Professor of Engineering at the University of Texas at Austin where he taught for 15 years. Dr. Daniel has conducted research in the area of geoenvironmental engineering, including research on drilling fluids, containment and management of those fluids, and fluid pressure control in the subsurface. Dr. Daniel served as chair of the American Society of Civil Engineers' External Review Panel that evaluated the failure of the New Orleans levees. He also served as a member of the National Research Council's (NRC's) Nuclear and Radiation Studies Board, the Board on Energy and Environmental Systems, and the Geotechnical Board. Dr. Daniel received a Ph.D. in civil engineering from the University of Texas at Austin. He was elected to the National Academy of Engineering in 2000. Dr. Daniel is nominated to serve a one-year term as Vice Chair from January – December 2020.

### **MEMBERS**

**Dr. R. Lyn Arscott, NAE**  
**International Association of Oil and Gas Producers (retired)**

Dr. Lyndon (Lyn) Arscott, retired in 2001 as the Executive Director of the International Association of Oil & Gas Producers (OGP), which has offices in London and Brussels and represents the upstream oil and gas industry before international regulatory agencies. Prior to that position, he was employed by the Chevron Corporation where assignments included Corporate General Manager of Health, Environment and Safety and Senior Executive Consultant for Exploration and Production reporting to the chairman of the board. He was a member of the Chevron Corporate Management Committee. During 1962-1964, he was a British Commonwealth scholar studying exploration geophysics in India. Between 1968 and 1986, he held numerous exploration and production management positions for Gulf Oil Co. and Chevron in Pennsylvania, Texas, Louisiana, and California. He was the 1988 president of the International Society of Petroleum Engineers (SPE), which has a current worldwide membership of more than 100,000. He is an Honorary Member of the SPE and an Honorary Member of the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME). During 2001-2002, he was an SPE Distinguished Lecturer on the subject of Sustainable Development in the Oil and Gas Industry. He is a member of the U.S. National Academy of Engineering and president (2015) of the Earth Resources Engineering Section. Currently residing in Danville, California, where he maintains his interest in environmental issues and

helping not-for-profit organizations. He holds a B.Sc. and a Ph.D. in mining engineering from the University of Nottingham, England.

**Dr. Regina M. Benjamin, NAM**  
***Gulf States Health Policy Center***

Dr. Regina Benjamin, 18th U.S. Surgeon General 2009-2013 is the Founder and CEO of BayouClinic, Inc. and the Gulf States Health Policy Center. As America's Doctor, she provided the public with the best scientific information available on how to improve their health and the health of the nation. Dr. Benjamin also oversaw the operational command of 6,500 uniformed public health officers who serve in locations around the world to promote, and protect the health of the American People. In addition, Dr. Benjamin served as chair of the National Prevention Council – 17 cabinet-level Federal agencies that developed the road map for the Nation's health – the National Prevention Strategy. Dr. Benjamin specializes in prevention policies and health promotion among individuals as well as large populations, especially concerning obesity, childhood obesity, and children's health. She has special interest in rural health care, health disparities among socio-economic groups, suicide, violence, and mental health. From her early days as the founder of a rural health clinic in Alabama to her leadership role in the worldwide advancement of preventive health, Dr. Regina Benjamin has forged a career that has been recognized by a broad spectrum of organizations and publications. In 1995, she was the first physician under the age of 40 and the first African-American woman to be elected to the American Medical Association Board of Trustees. Dr. Benjamin is a member of the Institute of Medicine and a Fellow of the American Academy of Family Physicians. In 1998 Dr. Benjamin was the United States recipient of the Nelson Mandela Award for Health and Human Rights. She received the 2000 National Caring Award, which was inspired by Mother Teresa and was recognized with the Papal honor Pro Ecclesia et Pontifice from Pope Benedict XVI. In 2008, she was honored with a MacArthur Genius Award Fellowship. In 2011, Dr. Benjamin became the recipient of the Chairman's Award at the 42nd NAACP Image Awards. Dr. Benjamin has a B.S. in chemistry from Xavier University, New Orleans, attended Morehouse School of Medicine, earned an MD degree from the University of Alabama at Birmingham, and an MBA from Tulane University. She is the recipient of 25 honorary degrees

**Lt. Gen Thomas P. Bostick, NAE**  
***Bostick Global Strategies***

Lieutenant General Thomas Bostick (retired), currently serves as the CEO at Bostick Global Strategies. Previously he was the Chief Operating Officer at Intrexon, a leader in the engineering and industrialization of biology to improve the quality of life and health of the planet. As Chief Operating Officer, Lt. Gen. (Ret) Bostick oversaw operations across the Company's multiple technology divisions, driving efficiency and effectiveness in the application of the Company's assets toward its development projects. Immediately prior to his tenure at Intrexon, Lt. Gen. (Ret) Bostick served as the 53rd Chief of Engineers and Commanding General of the U.S. Army Corps of Engineers, where he was responsible for most of the Nation's civil works infrastructure and military construction. Lt. Gen. (Ret) Bostick also served as the Deputy Chief of Staff, G-1, responsible for total Army personnel and manpower; Commanding General, U.S. Army Recruiting Command; and as the Assistant Division Commander-Maneuver; and then Assistant Division Commander-Support of the 1st Cavalry Division. He deployed with the Division in support of Operation Iraqi Freedom before commanding the Army Corps of Engineers Gulf Region Division, where he was responsible for more than \$18 Billion of reconstruction in Iraq. Lt. Gen. (Ret) Bostick also served as an Associate Professor of Mechanical Engineering at West Point and was a White House Fellow, working as a special assistant to the Secretary of Veterans Affairs.

He has spoken extensively on resilience including remarks at the United Nations, Risk Analysis World Congress in Singapore, and the National Academy of Sciences. He led the U.S. Army Corps of Engineers in the completion of the North Atlantic Coast Comprehensive Study: Resilient Adaptation to Increasing Risk report to Congress in 2015. Lt. Gen. Bostick was selected as a member of the National Academy of Engineering, the National Academy of Construction, and the George Washington University School of Engineering and Applied Science Hall of Fame for his many contributions to engineering. Lieutenant General (Retired) Thomas P. Bostick is a 1978 graduate of the U.S. Military Academy and holds Master of Science Degrees in both Civil Engineering and Mechanical Engineering from Stanford University, and a PhD in Systems Engineering from George Washington University.

**VADM Manson K. Brown**

***Vice Admiral, U.S. Coast Guard (Retired)***

Vice Admiral Manson Brown is a retired U.S. Coast Guard Vice Admiral (VADM) and public official. His top military decoration is the Coast Guard Distinguished Service Medal. In 1994, he became the first recipient of the Coast Guard Captain John G. Witherspoon Award for Inspirational Leadership. In 2012, he was honored with the Golden Torch Award by the National Society for Black Engineers. In 2014, he was honored by the National Association for the Advancement of Colored People with the Meritorious Service Award, an honor annually bestowed to a service member in a policy-making position for the highest achievement in military equal opportunity. VADM Brown was sworn in as the Assistant Secretary of Commerce for Environmental Observation and Prediction on March 18, 2015. In this role he strategically drives Administration policy, programming, and investments for all NOAA observing systems, including in situ instruments and satellites, and the process of converting observations to predictions for environmental threats related to weather, climate, water, oceans, and space weather. He serves as NOAA Deputy Administrator and Chair of NOAA's Observing Systems Council. He graduated in 1978 from the U.S. Coast Guard Academy with a Bachelor of Science degree in Civil Engineering. He is a registered professional civil engineer. He also holds Master of Science degrees in Civil Engineering from the University of Illinois at Urbana-Champaign and National Resources Strategy from the Industrial College of the Armed Forces. In 2016, he received an Honorary Doctorate from Massachusetts Maritime Academy.

**Dr. Barbara Entwisle**

***University of North Carolina, Chapel Hill***

Dr. Barbara Entwisle is Kenan Distinguished Professor of Sociology and Fellow of the Carolina Population Center at the University of North Carolina at Chapel Hill. She also holds adjunct and affiliate faculty positions in Geography and the Environment, Energy, and Ecology Program. A social demographer, her research focuses on social, natural, and built environments in relation to a variety of demographic and health outcomes. Dr. Entwisle has made fundamental contributions to the multilevel analysis of fertility; work, gender, and households; social networks and migration; and population-environment interactions. She pioneered the development of and early application of new tools, including methods for estimating multilevel models, integrating social and spatial data, and spatially explicit agent-based modeling approaches. Over her career, she has contributed to the design of innovative surveys around the world, including the China Health and Nutrition Survey, the Russia Longitudinal Monitoring Survey, and the Nang Rong (Thailand) Surveys of Social and Demographic Change. Between 2005 and 2013, she was PI of the North Carolina components of the National Children's Study. She was recently recognized by the AAAS for her pivotal role in the design of the National Longitudinal Study of Adolescent to Adult Health (Add Health). Dr. Entwisle has played leadership roles in advisory panels for the National

Academy of Sciences, NSF, and NIH and has contributed to policy discussions of the future of social and behavioral research. She previously served as vice chancellor for research at UNC—Chapel Hill (2010-2016) and prior to that, as Director of the Carolina Population Center (2002-2010). She now chairs the Board of Directors of the Association for the Accreditation of Human Research Protection Programs, the accrediting body for IRB's and serves as Series Editor for Sage's Quantitative Applications in the Social Sciences. Her research contributions have been recognized by her election as President of the Sociological Research Association (2015), President of the Population Association of America (2007), and Fellow of the AAAS (2003).

**Senator Mary L. Landrieu**  
***Van Ness Feldman***

Senator Mary Landrieu represented the state of Louisiana in the United States Senate for three terms, first elected in 1996. As a member of the Senate Energy and Natural Resources Committee – and then, ultimately, as Chair of that Committee – she passed several important pieces of legislation; most notably the landmark Gulf of Mexico Energy Security Act (GOMESA); the Israel American Energy Alliance; and the RESTORE Act – the single largest federal investment in the Gulf Coast in US history. She also served on the Senate Armed Services Committee, Appropriations Committee, and chaired the Small Business and Entrepreneurship Committee. During her time in the Senate, Landrieu was known for her bipartisan approach to addressing national challenges and for her passionate advocacy for her home state of Louisiana, particularly in the aftermaths of Hurricanes Katrina and Rita. Prior to serving in the U.S. Senate, she served in the Louisiana State Legislature from 1979 – 1987. For eight years, she successfully championed causes related to women and children, flood protection, and education reform. In 1987, she was elected State Treasurer and served with distinction for two terms. Strong fiscal management, pension fund diversification, debt limitation, and the creation of the first-ever municipal investment fund (now valued at over \$2 billion) are some of her noteworthy accomplishments. Senator Landrieu serves on the Board of Directors of CenturyLink, the second largest US communications provider to global enterprise customers. In the non-profit space, she serves on the boards of the National Alliance for Public Charter Schools; Resources for the Future; and chairs the Board of the Congressional Coalition on Adoption Institute (which represents over 150 Members of Congress who work in a bipartisan fashion, supporting and finding families for orphan children here in the US and around the world). She graduated from Louisiana State University.

**Dr. Kerstin A. Lehnert**  
***Lamont Doherty Earth Observatory***

Dr. Kerstin Lehnert is Doherty Senior Research Scientist at the Lamont-Doherty Earth Observatory of Columbia University and Director of the NSF-funded data facility IEDA (Interdisciplinary Earth Data Alliance). Kerstin holds a PhD in Petrology from the University of Freiburg in Germany. Over the past 15 years, her work has mostly centered on the development of community-driven data infrastructures for the solid Earth sciences and, in particular, on using cyberinfrastructure to improve access and sharing of Earth and space science data and physical samples, and on advancing data access and the data sharing culture in 'small data' communities. Kerstin is currently member of the AGU Board of Directors, chair of the EarthCube Leadership Council Leadership Team, and President of the IGSN e.V., a non-profit organization that operates a global infrastructure for unique identification of physical samples and collections. Kerstin is a past member of the NSF Advisory Committee for Cyberinfrastructure, past President of the Earth and Space Science Informatics Focus Group of the American Geophysical Union, and past chair of the Geological Society of America. She has received the Distinguished Service Award of

the Geochemical Society and the Outstanding Contributions to Geoinformatics Award of the Geological Society of America.

**Ms. Monica J. Mason**

***Core Specialty Insurance***

Ms. Monica Mason is Head of Property Analytics at Core Specialty Insurance. Prior to this position, she was a consultant to BMS Re where she is developing a plan to modernize the systems, tools, and processes used to model and communicate catastrophe risk to US insurance clients. She was previously the Senior Vice President and Global Head of Catastrophe Risk Analytics at TransRe, a leading global reinsurer headquartered in New York. Her team was responsible for the overall use of catastrophe models and associated analytics, portfolio management of catastrophe risk, and developing the TransRe view of risk through model research. Ms. Mason has been active in the catastrophe modeling industry since 2001, with roles at a Lloyd's syndicate, a Bermuda reinsurer, a major broker, and a large model vendor. She serves on the board of the International Society of Catastrophe Managers (ISCM) and is chair of its Education committee. She also serves on the conference organizing committee for the RAA's annual program on catastrophe management. In her free time, Ms. Mason volunteers with the Hoboken Community Emergency Response Team and serves on the Citizen Advisory Group for the Hudson Rebuild by Design project in Hoboken, NJ. Ms. Mason is a graduate of Macalester College with a degree in Mathematics and Economics. She holds the CCRMP, ARe and CEEM industry designations.

**Ms. Sara N. Ortwein, NAE**

***XTO Energy (Retired)***

Ms. Ortwein most recently served as President of XTO Energy Inc. Ms. Ortwein served as President of ExxonMobil Upstream Research Company at Exxon Mobil Corporation from September 1, 2010 to November 4, 2016. She served Vice President of Engineering for Exxonmobil Development Company since 2006. She joined Exxon Company, USA as a Drilling Engineer in 1980. She held several engineering positions at Exxon Company, USA in the East Texas division before becoming an engineering supervisor in the Central division in 1985. In 1987, Ms. Ortwein was named advisor for operations analysis and later supervisor of the reservoir and subsurface engineering organization. She held a number of technical and management positions in Exxon Company, USA, Exxon Ventures Inc. and ExxonMobil Production Company. Ms. Ortwein served as Upstream Advisor at Corporate Headquarters since 2001 and since 2003 served as Deputy Production Manager and later served as Production Manager at U.S. Production at ExxonMobil Production Company. She has won numerous awards for her work championing math, science and engineering, including being named a distinguished graduate from the Cockrell School of Engineering at UT in 2009. Ms. Ortwein holds bachelor of science in civil engineering from the University of Texas.

**Dr. Amelie G. Ramirez, NAM**

***University of Texas Health Science Center, San Antonio***

Dr. Amelie Ramirez is an internationally recognized health disparities researcher at UT Health San Antonio, where she is Chair and Professor of Population Health Sciences and Director of the Institute for Health Promotion Research. She has 30 years of experience conducting behavioral and communications projects to reduce cancer, increase screening rates and clinical trial participation, prove the efficacy of patient navigation for cancer patients, prevent tobacco use, and improve healthy lifestyles among U.S. Latinos. Dr. Ramirez currently directs the Salud America! national multimedia program to empower its

vast network of 300,000 community leaders to drive healthy policy and system changes to promote health equity and support for Latino families (<http://www.salud-america.org> and @SaludAmerica on social media). Dr. Ramirez also conducts breast cancer disparities research on quality of life and survivorship issues, and directs Quitxt, a bilingual tobacco-cessation service for young Latino adults using mobile-phone text messages; the service yielded a strong 21% quit rate among enrollees at follow-up. She also has trained/mentored 250+ Latinos in health fields, and leads the Éxito! training program (<https://exitotraining.org/>) to help master's-level students and professionals pursue a doctoral degree and research career focused on Latino cancer. Dr. Ramirez is a Susan G. Komen Scholar and a member of the National Advisory Council on Minority Health and Health Disparities of the National Institute on Minority Health and Health Disparities (NIMHD). Her recognitions include: 2007 election to the National Academy of Medicine; 2011 White House "Champion of Change"; 2014 APHA Everett M. Rogers Public Health Communication Award; 2018 Icons in Healthcare Award from CentroMed; and 2019 Lifetime Achievement Award from the Society of Behavioral Medicine. In Texas, Dr. Ramirez is on the San Antonio Mayor's Fitness Council and is President of The Academy of Medicine, Engineering and Science of Texas. Dr. Ramirez, a native of Laredo, Texas, earned MPH and DrPH degrees from UT Health Science Center at the Houston School of Public Health.

**Francis Wiese**  
***Stantec Consulting Services, Inc.***

Francis Wiese is Stantec's overall Technical Leader for Marine Science in the U.S. Francis brings 26 years of experience working in the coastal and marine environment throughout the world, designing, implementing, and managing large inter-disciplinary, multi-institutional science programs, including in the North Atlantic, North Pacific, Bering Sea, Gulf of Alaska, and the Arctic, and conducting projects in the North Sea, Caribbean, Galapagos, Gulf of Mexico, and the east and west coast of North America. Francis has worked for and with academia, government, non-profits and industry, is a technical reviewer for over 20 international journals and serves on a variety of national and international science panels and working groups. He has extensively focused on environmental impacts as a result of anthropogenic stressors, marine shipping, marine spatial planning, climate change, environmental policy, adaptive management, resiliency, coastal erosion, and system science. He is a prolific public speaker and most of all enjoys thinking outside the box to solve complex real-world issues. Dr. Wiese received his B.S. in Marine Biology from the University of Victoria and Ph.D. in Conservation and Marine Biology from Memorial University of Newfoundland.

**Mr. Roy E. Wright**  
***Insurance Institute for Business & Home Safety***

Mr. Roy Wright joined IBHS in 2018 with more than 20 years of experience in insurance, risk management, mitigation, and resilience planning. Convinced that the continuing cycle of human suffering that strikes families and communities in the wake of severe weather can be broken, Mr. Wright leads a team of scientists and risk communicators who deliver strategies to build safer and stronger homes and businesses. IBHS's real-world impact enables the insurance industry and affected property owners to prevent avoidable losses. Mr. Wright joined IBHS from the Federal Emergency Management Agency (FEMA) where he served as the Chief Executive of the National Flood Insurance Program, led the agency's Federal Insurance and Mitigation Administration, and directed the resilience programs addressing earthquake, fire, flood, and wind risks. In these roles, he guided several programs that promote a risk-conscious culture, enable faster disaster recovery, and address long-term vulnerabilities

to life, property, and well-being in communities across the United States. Prior to joining FEMA in 2007, he worked in public and private sector roles with Coray Gurnitz Strategy Consulting and the U.S. Department of the Interior. Mr. Wright earned a bachelor's degree in political science from Azusa Pacific University and a Master of Public Administration from The George Washington University.