

Domestic Transportation of Petroleum, Natural Gas, and Ethanol

Committee

Paul G. Gaffney, II

Chair

Paul G. Gaffney II (NAE) retired in 2013 as President of Monmouth University and is now President Emeritus. He continues to serve as Policy Fellow in the university's Urban Coast Institute. As a Vice Admiral in the U.S. Navy, he served as President of the National Defense University, as well as the Chief of Naval Research. He served on the U.S. Ocean Policy Commission from 2001 to 2004. His naval career spanned more than 30 years, including duty at sea, overseas, and ashore in executive and command positions. He has been recognized with a number of military decorations and the Naval War College's J. William Middendorf Prize for Strategic Research. He chaired the federal Ocean Research/Resources Advisory Panel and currently chairs the Ocean Exploration Advisory Board. He is a director of Diamond Offshore Drilling, Inc. He has served on several National Academies committees, including Chair of the BEES Marine and Hydrokinetic Energy Technology Assessment Committee and member of the Ocean Studies Board. He is a member of the National Academies Gulf Research Program Advisory Board. He co-chaired the National Oceanic and Atmospheric Administration's Decadal Ocean Exploration Study. He was elected to the National Academy of Engineering in 2010. He graduated from the U.S. Naval Academy in 1968, and completed a year as a student and advanced research fellow at the Naval War College, graduating with highest distinction. He earned a master's degree in ocean engineering from Catholic University of America and an M.B.A. from Jacksonville University.

Monica M. Blaney

Member

Monica M. H. Blaney is Chief of Safety Analytics in the Research, Evaluation, and Systems branch of the Transport Dangerous Goods (TDG) Directorate of Transport Canada. Safety Analytics is a new section in the branch that focuses on qualitative and quantitative analyses of TDG movements and means of containment. This includes systemic risk analysis, environmental scanning, supply chain, trend and predictive analytics, and formal risk assessments. Previously, she led the Asia-Pacific Gateway and Corridor Initiative and Western Canada portfolio for transportation infrastructure and freight systems analyses. She has also been tasked with working with the U.S. Federal Highway Administration on freight transportation data collaboration. Previously, she was manager for rail/intermodal/marine at Alberta Infrastructure and Transportation's Strategic Policy Branch. In this position, she was responsible for advising on policy matters related to the freight transportation system. Prior to entering public service, she worked for Canadian National Railways, where she held numerous positions related to marketing, planning, and operations. She has served as principal investigator for studies sponsored by TRB's National Cooperative Freight Research Program. She earned a B.Sc. in statistics and a B.Sc. Agriculture from the University of Manitoba and an M.B.A. in maritime and logistics management from the University of Tasmania.

Guy Caruso

Member

Guy F. Caruso is Senior Adviser to the Energy and National Security Program at the Center for Strategic and International Studies (CSIS). Prior to joining CSIS, he served as Administrator of the U.S. Energy Information Administration (EIA) from July 2002 to September 2008. He joined the U.S. Department of Energy (DOE) as a senior energy economist in the Office of International Affairs, rising to Director of the Office of Market Analysis. Previously, he worked for the Central Intelligence Agency as an international energy economist in the Office of Economic Research. He was Director of the National Energy Strategy project for the U.S. Energy Association. He has also worked at the International Energy Agency, first as Head of the Oil Industry Division, and later as Director of the Office of Non-member Countries. In 2008, he was awarded the French National Order of Merit. He holds a B.S. in business administration and an M.S. in economics from the University of Connecticut, as well as an M.P.A. from Harvard University.

Edward R. Chapman

Member

Edward R. Chapman retired in 2015 from his position as Director for Hazardous Materials at BNSF Railway, where he worked for 37 years. At BNSF, he led the railroad's activities aimed at reducing railroad and shipper-caused commodity releases, including programs to train state and local first responders to hazardous materials incidents. He has been certified as a corporate hazardous materials responder since 1988. In 2014 he received the Association of American Railroads' Holden-Proefrock Award in recognition of his contributions to railroad hazardous material safety. He is a past chairman and remains a member of the Transportation Community Awareness and Emergency Response Task Group, an industry program that aids community preparedness planning and coordinates the development of programs and training for local emergency responders. He has been a member of several TRB committees, including the Committee for a Study of the Feasibility of a Hazardous Materials Transportation Cooperative Research Program and the Committee for the Assessment of a National Hazardous Materials Shipments Identification System. He earned a B.S. in industrial engineering from Texas A&M University.

Robert "Bob" J. Chipkevich

Member

Robert J. Chipkevich is Principal of Chipkevich Safety Consulting Group, a transportation safety consultancy. He retired in 2010 from the National Transportation Safety Board (NTSB) after more 25 years of service. He headed the Board's hazardous materials accident investigation program for 20 years, the pipeline accident investigation program for 15 years, and the railroad accident investigation program for 9 years. As the Director for accident investigations, he assessed hundreds of transportation accidents each year and launched investigation teams to the most serious accidents. While at the Board, he investigated on-scene many of the most serious hazardous material accidents in the United States across all modes of transportation. He testified before Congress more than a dozen times on transportation safety issues. Prior to becoming a Director at NTSB, he worked for the Federal Highway Administration in Boise, Idaho and served as Assistant Director of the Motor Carrier Division, Tennessee Public Service Commission in Nashville. He has served on numerous transportation safety committees, including the Federal Railroad Administration Railroad Safety Advisory Committee, the National Association of State Fire Marshals Pipeline Safety Committee, the Flight Safety Foundation, the American Lifelines Alliance, and the Association of American Railroads Tank Car Committee. He earned a B.S. in business with a major in transportation from the University of Tennessee.

Joseph W. Martinelli

Member

Joseph W. Martinelli is Founder of PiPRO, a consultancy serving pipeline industry clients through risk management, incident response, and business management. He retired as President of Chevron Pipe Line Company after nearly five decades of work in the petroleum industry. He has held executive positions in the areas of oil exploration and production as well as pipeline operation. He has also served in senior management positions at Gulf Oil Exploration Corporation. During his career, he was a member of a number of industry organizations and boards, including those of the Association of Oil Pipelines and American Petroleum Institute. He was Program Chair for pipeline executive seminars at the Northwestern University Transportation Center. He is a charter member of the National Academy of Construction. The National Institute of Standards and Technology selected him as a Baldrige Examiner. He earned a B.S. in petroleum engineering and M.B.A. from the University of Pittsburgh.

Ali Mosleh

Member

Ali Mosleh (NAE) is Distinguished Professor and holder of the Evelyn Knight Chair in Engineering at the University of California, Los Angeles. Previously, he was the Nicole J. Kim Eminent Professor of Engineering and Director of the Center for Risk and Reliability at the University of Maryland. His areas of expertise are Bayesian methods for data analysis, common cause failure analysis, modeling of the impact of organizational factors on system reliability, dynamic accident simulation and probabilistic risk assessment, and space systems risk analysis. He has led many studies on the risk and safety of complex systems, such as space missions, nuclear power plants, commercial aviation, communication networks, and healthcare systems. He was elected to the National Academy of Engineering in 2010. He has served on several National Research Council committees, including the Committees on Alaska's Oil and Gas Pipeline Infrastructure and on Risk of Vessel Accidents and Spills in the Aleutian Islands. He currently serves on the TRB Marine Board. He earned a B.S. in physics from Sharif University of Technology and an M.S. and Ph.D. in nuclear science and engineering from University of California, Los Angeles.

Tonya Ngotel

Member

Tonya Ngotel is Coordinator for the State Emergency Response Commission (SERC) for Nebraska. She is responsible for overseeing the day-to-day operations of the SERC, as well as the establishment of its plans, policies, and procedures. Her duties include communicating critical information to first responders across the state. She has represented the national hazardous materials planning community as President of the National Association of SARA Title III Program Officials (NASTTPO) since 2012. Her position at NASTTPO requires interacting with regional and national level executives and senior government officials pertaining to the transportation and storage of hazardous materials. She serves on various advisory councils and working groups of the Environmental Protection Agency, Federal Emergency Management Agency, and Executive Office of the President. She earned a B.A. in Human Resources and Psychology from Doane College.

Gregory G. Noll

Member

Gregory G. Noll is Program Manager for the South Central Task Force, an eight-county, all-hazards emergency preparedness organization in South Central Pennsylvania. He is also Senior Partner at Hildebrand Noll Associates, a consulting firm specializing in emergency planning, response, and incident management issues. He is the past co-chair and current member of the InterAgency Board Training and Exercise SubGroup. He has received a number of national level awards, including the 2011 John M. Eversole Lifetime Achievement Award by the International Association of Fire Chiefs (IAFC), which is the highest award given by IAFC Hazardous Materials Committee. He is a Certified Safety Professional and Certified Emergency Manager, and has been involved in a number of national emergency response initiatives, including chair of the National Fire Protection Association's Technical Committee on Hazardous Materials Response Personnel. He earned a B.A. in business administration and management from Kutztown State College and an M.A. in public administration from Iowa State University.

Craig E. Philip

Member

Craig E. Philip (NAE) is Director of the Vanderbilt Center for Transportation Research. From 1993 to 2014, he served as President and CEO of Ingram Barge Company. He began his career at Consolidated Rail Corporation and later served with Southern Pacific Railroad where he was Vice President of their Intermodal Division. He has been actively engaged in transportation and logistics industry leadership, serving as chairman of the American Waterways Operators, the National Waterways Conference, and the U.S. Chamber of Commerce's Transportation and Infrastructure Committee. He was a member of TRB's Executive Committee and Marine Board. He also serves as a U.S. Commissioner of the World Association for Waterborne Transport Infrastructure and on the U.S. Department of Transportation's National Freight Advisory Committee. He serves on the boards of the ArcBest Corporation, the Seamen's Church Institute, the Red Cross of Tennessee, and the Nashville Civic Design Center. In 2010, he was designated a Distinguished Diplomat in the Academy of Coastal, Ocean, Port and Navigation Engineers. He was elected to the National Academy of Engineering in 2014. He earned a B.S. in civil engineering from Princeton and a Ph.D. in civil engineering from MIT.

Ian P. Savage

Member

Ian P. Savage is Professor of Instruction in the Department of Economics and Transportation Center, Northwestern University, where he has worked since 1986. He is Associate Chair of the Department of Economics and has served as Associate Director of the Transportation Center. His research has centered on urban public transportation and transportation safety. He has conducted research into safety performance and the effectiveness of safety regulations in most modes of transportation with particular emphasis on the trucking and railroad industries, as well as a study of double-hulled tankers. He has served on the organizing committees of local, national and international professional organizations. He was a member of the TRB Committee for Review of the Federal Railroad Administration Research Development, and Demonstration Programs, and is currently a member of the TRB Standing Committee on Highway/Rail Grade Crossings. He earned a B.A. in economics from the University of Sheffield and Ph.D. from the School of Economic Studies and Institute for Transport Studies at the University of Leeds.

Katherine F. Turnbull

Member

Katherine F. Turnbull is Associate Director of the Transportation Institute of the Texas A&M University System. She is head of the System Planning, Policy, and Environment Research Group, responsible for managing programs in College Station, Arlington, and Austin with 180 employees and an annual research budget of approximately \$10 million. In addition, she is a Visiting Assistant Professor in the Department of Landscape Architecture and Urban Planning. Her research focuses on transportation planning and intelligent transportation systems. She is currently the principal investigator for a study examining the impact of the energy sector (oil, gas, wind, crude by rail, and coal) on the transportation systems of eight states. She is active in TRB and the Institute of Transportation Engineers (ITE). She served as Chair of the TRB HOV Committee for six years and currently chairs ITE's Transit Council. She is also a member of the ITS America Coordinating Council. She earned a B.S. in political science and history from the University of Minnesota, M.S. in urban affairs from the University of Wisconsin, and Ph.D. in urban and regional science from Texas A&M University.