

2012-2013 ASCE Committee on Critical Infrastructure (CCI) Biographies

Mathew Francis, P.E., (Chair) is a senior geotechnical engineer with URS Corporation in Salt Lake City, Utah. He holds BSCE and MSCE degrees from Brigham Young University and has 15 years experience in geohazard assessments, geotechnical engineering, and earthquake/tsunami engineering. He has performed field reconnaissance surveys and assessments of failures and earthquake damages for FEMA, NSF, EERI, US Aid, and UNDP, including participating in multi-disciplinary and multi-hazard risk studies such as the 2006 EERI/FEMA Fellowship at Oregon State University researching tsunami liquefaction scour. Mr. Francis has developed resilient designs and hazard mitigations for foundations using ground treatments and trenchless technologies and he has managed specialty contracting and performance based mitigations throughout the Western US, Latin America, and the Asia-Pacific region. His experience includes numerous ports, tunnels, pipelines, tanks, pump stations, buildings, highways, airfields, rockfalls, mine tailings, and embankments for public and private clients.

Dennis Schrader, P.E. (Vice-Chair) President of DRS International, LLC, has 30 years experience in engineering administration. Prior to launching his company, Schrader served as Deputy Administrator of the National Preparedness Directorate of the Federal Emergency Management Agency (FEMA) after being confirmed by the United States Senate on August 17, 2007. Schrader served as Maryland's first Director of Homeland Security under Governor Robert L. Ehrlich, Jr. He is credited with the establishment of the office and introducing efforts to improve public safety communications and advance information sharing within Maryland. Previously, Schrader spent 16 years at the University of Maryland Medical System (UMMS), in various leadership posts to include Vice President of Project Planning and Development. Schrader began his career in the auto industry before joining the U.S. Navy Civil Engineer Corps. He remained on active duty until 1987 and retired as a Captain in 2007. In 1994, Schrader was elected to the Howard County Council and served one term.

Marsha Bomar Anderson formed *Street Smarts*, a transportation planning and engineering consulting firm headquartered in Atlanta, Georgia in 1990. She had the honor of being the first woman to serve as International President of the Institute of Transportation Engineers (ITE) and was the first woman to ever receive the ITE Burton Marsh Distinguished Service Award. Marsha has received the 2005 Society of Women Engineers Entrepreneur of the Year Award. The citation is summarized as follows: For demonstrating the business can be done successfully, as well as ethically, creatively, with flexibility and family-friendly policies. Ms. Anderson Bomar has received the Gwinnett County Chamber of Commerce Athena Award, given to the Outstanding Businesswoman who has made a significant contribution in business, community service and her profession. In February, 2006 the American Society of Civil Engineers and their partner organizations released their first publication from the Extraordinary Women project. The book entitled, "Changing Our World" features 238 women engineers of accomplishment. Marsha is proud to be featured in this publication. Other professional affiliations include the Transportation Research Board, American Society of Civil Engineers and the Institute of Transportation Engineers. Most recently Marsha was elected to serve on the Duluth (GA) City Council. She is heavily involved in mentoring activities, including the Texas A&M Advanced Transportation Institute and the Engineer's Week Introduce a Girl to Engineering program and authored a successfully implemented program for WTS Atlanta. Ms.

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Anderson Bomar holds a Bachelor's and a Master's degrees from the Polytechnic Institute of Brooklyn in Mathematics and Transportation Planning and Engineering, respectively. She also holds a Masters of Civil Engineering with a concentration in Transportation from Princeton University. She is the author of hundreds publications, articles and studies. Ms. Anderson is listed in numerous Who's Who publications, including "Professional and Executive Women", in the "South and Southwest", "in the East", and "Among Community Leaders".

Charles Hookham, P.E. is Vice President and Director of Power Projects for HDR Engineers, a global architecture, engineering, and consulting firm headquartered in Omaha, NE. He is responsible for the execution of power generation and transmission projects within HDR, which range from site development and environmental permitting through detailed design, equipment procurement, and construction management. His nearly 32-year career spans many domestic and international assignments in power generation, water, wastewater, petrochemical, oil and gas, heavy industrial facilities and processes, security, and commercial development. Within the power and energy field, he has managed the design of nuclear, fossil fueled, hydroelectric, renewable (wind, biomass, solar, geothermal), and other power generating facilities, as well as procurement, construction, and startup. He has also completed research on behalf of the U.S. Nuclear Regulatory Commission, Army Corps of Engineers, and Federal Emergency Management Agency, principally in the areas of aging infrastructure analysis, rehabilitation and facility security. He is a civil engineering graduate of the University of Illinois at Champaign-Urbana, has completed post-graduate coursework in energy engineering, and also has an MBA (International Finance). He is past-chair of ASCE Energy Division's executive committee and has been very active in ASCE and other society activities on local and national levels. He resides in Ann Arbor, Michigan.

Nathan M. Kathir, Ph.D., P.E., is currently a Program Manager with the Headquarters, U.S. Army Corps of Engineers (USACE) in Washington, DC. He manages the Public Works Sector of the Defense Critical Infrastructure Program (DCIP). DCIP is a Department of Defense (DoD) risk management program with the primary goal of reducing or eliminating unacceptable risk to defense critical infrastructure world-wide. Nathan has over 30 years of engineering design, teaching, and management experience, to include 21 years with federal government. He has specialized training and extensive experience in force protection, antiterrorism standards for buildings, and critical infrastructure protection. His experience includes engineering consulting in Colorado, design and project management with USACE in St. Paul, MN and teaching at Texas A&M; in his last assignment with the Defense Threat Reduction Agency, he assessed and advised over 120 installations and government facilities worldwide on risk reduction related to infrastructure and force protection. He holds an MS degree in civil engineering from the North Dakota State University and a PhD in structural engineering from Texas A&M University. He is a licensed engineer in the State of Colorado, and a recent graduate of the Industrial College of the Armed Forces, the National Defense University with an MS degree in National Security (Resourcing) Strategy. His service to ASCE started with the MN Section in various leadership roles and he has served on a number of ASCE technical committees. Since 2000,

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Nathan has been a civil engineering program evaluator (PEV) for the engineering accreditation commission of ABET on behalf of ASCE.

Sandra N. Knight, P.E., F.ASCE, F.NSPE has served in the position of County Engineer for Bradley County, Tennessee for over 14 years. She currently serves as the President of the Tennessee Stormwater Association and is a member of the American Public Works Association. She serves on the Technical Advisory Committee for Cleveland State Community College and the Economical Development Council for the Cleveland/Bradley County area. Sandra has served in ASCE and NSPE at the local and state levels, rotating through the local officer chairs of both societies. She currently serves as the Secretary of the Tennessee Section of ASCE, Chair of the Legislative and Government Affairs and Awards committees for TSPE. She is currently the Region 4 Director and previously represented Tennessee as a Governor for four years. She serves on ASCE's Strategic Planning Committee, Committee on Geographic Units and Committee on Critical Infrastructure. She is also active in NSPE serving as the Chair of the Professional Engineers in Government.

Ziad Mazboudi, P.E., LEED AP, CPSWQ, CPESC, is a senior civil for the City of San Juan Capistrano, in Orange County, California, where he manages the environmental division. He is a registered civil engineer in California and holds a BSCE from the American University of Beirut. He chairs the County stormwater program and the trash and debris task force. He is currently the President of the American Society of Civil Engineers, ASCE, Orange County branch and is the Chair of the California (Region 9) ASCE Disaster Preparedness committee. He is a trainer with CalEMA in Safety Assessment Programs, SAP, and is a certified Evaluator and Coordinator in FEMA response program. He spent the past twenty years in local government, and has been involved in responses to various disasters including floods and earthquakes. He is currently pursuing his MBA in Finance. He is currently the Safety officer for the City of San Juan Capistrano Utilities Department, and oversees various safety and emergency response programs. Being within the 10 miles radius zone of the San Onofre Nuclear Generating Station, SONGS, he has participated in the annual drills in the role of Operations Chief, overseeing Public Works, Utilities and public safety, including police and fire. Ziad has been an active member of the American Public Works Association, APWA national solid waste committee for the past 6 years. He is also the city's floodplain manager and has received various FEMA trainings on floodplain management. He is also a Community Emergency Response Team, CERT, member and has received extensive training in first aid, CPR, rescuing and fire-fighting. He holds certificates in Geographic Information Systems, GIS from Cal Poly Pomona and was the President of Orange County URISA, the Association for GIS professionals. Ziad loves photography and woodworking. He received the National ASCE Citizen Engineer award and the California ASCE Outstanding Community Service award. He also received the Orange County Environmental Engineer award. He is often referred to as a local government environmental activist. Ziad is fluent in Arabic, French, English and conversational Spanish.

David B. Swanson, P.E., S.E. LEED AP, is a Principal and serves as the Director of Structural Engineering at Reid Middleton, Inc., a 100-person structural and civil

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engineering firm with offices in Washington and Alaska. Dave's structural design practice involves the design and seismic retrofit of buildings for aviation, healthcare, academic, civic, commercial, and institutional projects throughout the western United States and Alaska. Dave was named Structural Engineer of the Year by the Structural Engineers Association of Washington (SEAW), is a past Director of SEAW, and has represented Structural Engineers nationally on the National Council of Structural Engineering Association's (NCSEA) Structural Engineers Emergency Response Committee. Dave also is a past-chair and a current member of SEAW's statewide Disaster Preparedness and Response Committee. Dave is a member of FEMA's Urban Search & Rescue Washington Task Force (WATF-1), where he participates as a Structural Engineer evaluating collapsed buildings for rescue operations. Dave has led SEAW Earthquake Reconnaissance Teams to research lessons learned from the devastating 1995 Kobe Earthquake, 1999 Chi Chi Earthquake in Taiwan, 2008 Wenchuan Earthquake in China, and the 2010 Chile and Haiti Earthquakes. Moved by the devastation of the large urban Kobe Earthquake in 1995, and inspired by the work done by EERI on the Hayward Fault Scenario in the late 1990's, Dave played a key role in the leadership and development of the 2005 Seattle Fault Scenario Project. The widely distributed M6.7 Earthquake on the Seattle Fault Scenario Report has extended the recently discovered Seattle Fault seismic hazard mapping work by the USGS to assess the vulnerability of our region's building, bridge, and port infrastructure. This project has been an important catalyst for improving seismic safety in Washington State and has become a disaster preparedness model for other communities. Dave also serves as a Adjunct Professor in the Department of Civil and Environmental Engineering at the University of Washington where he teaches Structural Design and Earthquake Engineering courses. Dave has authored and published over 15 technical papers on structural design of buildings in high seismic hazard areas. Dave is a licensed Structural and Civil Engineer in Alaska, California, Hawaii, Idaho, Nevada, Oregon and Washington. He holds Bachelor and Master of Science degrees in Civil and Structural Engineering from the University of Washington.

E. Scott Tezak, PE, BSCP, M-ASCE is currently the TRC Security Practice Leader and has 20 years of experience in the fields of security, structural hardening, emergency preparedness and risk management. He has led multi-hazard and security risk assessment teams for schools, general use buildings, critical and essential facilities, transportation facilities, and infrastructure at over 100 sites around the country for clients such as DHS/FEMA, the Departments of State and Treasury, the Smithsonian Institution, the General Services Administration (GSA), the Massachusetts Bay Transportation Authority (MBTA), the Massachusetts Convention Center Authority (MCCA), the Boston Urban Area Security Initiative (UASI), the Transbay Joint Powers Authority (TJPA), and the Port of Long Beach. He is the former program manager for the FEMA Technical Assistance and Research Contract responsible for performing

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post-disaster assessments of buildings impacted by disasters. In addition to his work for government agencies, Mr. Tezak has led security risk assessments for many municipal, transit, and private entities. Working locally on these projects has allowed Mr. Tezak to develop strong relationships with the regional federal contacts for DHS including the Protective Security Advisors (PSAs), multiple State Police Fusion Centers, and local intelligence entities within police agencies who work to reduce risk to infrastructure through the use of technological systems, physical hardening, emergency management plans, and security master plans.

Mr. Tezak has been involved in the preparation and instruction on the DHS Risk Management Series publications FEMA Publication 426 *Reference Manual to Mitigate Potential Terrorist Attacks Against Buildings* and FEMA Publication 452 *A How-To Guide to Mitigate Potential Terrorist Attacks Against Buildings*. He is an instructor at FEMA's Emergency Management Institute for this course and recently, he supported DHS Science & Technology Directorate efforts to create a new *Integrated Rapid Visual Screening Tool* (IRVS) which can be used to perform rapid visual screening of buildings for vulnerability to terrorist attacks, criminal activities, and natural hazards on transit tunnels and stations (completed in the fall of 2011). He was one of the first group of security professionals certified by the American Society of Civil Engineers (ASCE) Building Security Council to become Building Security Certified Professionals (BSCP) and he has continued to support the Council as an Instructor for the certification program.

Corresponding Members:

Lt. Col. Robert E. "Bob" Adamski, P.E., F.ASCE, F.SAME, USA (Ret.), entered the U.S. Army Reserve as an engineer equipment repairman, received a direct commission and served as an engineer officer in the 699th Engineer Company (PC), the 411th Engineer Brigade and the 416th Engineer Command. Adamski is the vice president of municipal infrastructure programs for [Gannett Fleming](#), an international consulting engineering and construction management firm. Based in the firm's Locust Valley, NY office, he is responsible for providing consulting assistance to municipal water and wastewater systems owners in the areas of facility operations and maintenance and utility management. He joined Gannett Fleming after 28 years of government service. He served in various positions including the NYC Department of City Planning, the Department of Water Resources, New York State Department of Environmental Conservation, Brooklyn Borough President and the NYC Department of Environmental Protection. He retired as Deputy Commissioner of the NYC Department of Environmental Protection. Adamski is the Special Advisor for the UN and a past Director of [Water for People](#), a not-for-profit organization dedicated to providing safe drinking water to impoverished people.

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Donald L. Basham, P.E., Federal Services Advisor with Stantec Consulting Services where he serves as a senior consultant and advisor on water resources related matters to include dams and levees. Retired in November 2006 after serving 38-1/2 years with the U.S. Army Corps of Engineers. His last assignment was Chief, Engineering and Construction at Corps Headquarters, Washington, D.C. where he was responsible for policy, program, and technical expertise in the execution of over \$10 billion of design and construction work. He provided Headquarters leadership and oversight for Coastal Louisiana post-Katrina reconstruction and was responsible for the creation and oversight of the Interagency Performance Evaluation Task Force investigation into the performance of the New Orleans and vicinity Hurricane Protection System. Don served as the Corps Dam Safety Officer and served on the National Dam Safety Review Board. He was a member of the Senior Executive Service. During his career with the Corps Don served at the district level (Louisville), division level (Lakes and Rivers and Mississippi Valley) and Headquarters. He holds a B.S. and two M.S. Degrees in Civil Engineering, all from the University of Louisville. He is a member of USSD, NSPE, SAME (Fellow), and ASCE. He is a Licensed Professional Engineer in Kentucky.

Stephan E. Butler, E.I.T., recently completed a year-long appointment as American Association for the Advancement of Science Congressional Science and Technology Fellow for the American Society of Civil Engineers (ASCE). During his fellowship, Stephan worked for U.S. Senator Mary Landrieu (LA), focusing on post-disaster reconstruction issues, Army Corps of Engineers infrastructure and reconstruction projects, public-private partnerships and smart growth policy. Prior to his appointment, Stephan worked for a top ranked construction services firm in New York City, where he managed major construction projects for firms such as Lazard Freres and Goldman Sachs. On September 11, 2001, Stephan was a first responder at the World Trade Center site in New York City, where he conducted structural stability surveys that allowed rescue workers to carry out their jobs as safely as possible – a job he was well prepared for, having worked on the design and reconstruction of the World Trade Center's sub-grade levels in 1993. Stephan holds Bachelors and Masters degrees in Civil and Structural Engineering from New York's Cooper Union for the Advancement of Science and Art. Stephan is involved with ASCE and its Construction Institute (CI). He currently co-chairs the ASCE CI's Committee on Social and Environmental Concerns in Construction and as CI's designated representative on ASCE's initiative on Sustainable Infrastructure. Stephan is also a corresponding member of the ASCE's Critical Infrastructure committee and Vice President of the Northern New Jersey Branch of the ASCE, which named him 2007 Young Engineer of the Year. Stephan serves on the Brooklyn Chamber of Commerce Real Estate Development Executive Committee.

Michael Chritton, CPP, B.S., U.S. Military Academy, is CH2M HILL's Director of Security Programs. His security experience ranges from staff intelligence officer to lead designer and a field design liaison engineer on a \$400-million security upgrade. He co-authored the Nuclear Regulatory Commission's NUREG/CR-5723, "Security System Signal Supervision." Mr. Chritton has instructed for the International Training Course for Physical Protection of Nuclear Materials and Facilities, which is presented by Sandia for the International Atomic Energy Agency. He was an instructor for the Risk Assessment Methodology for Water Utilities (RAM-WSM) Train-the-Trainer course presented by Sandia. Mr. Chritton has coordinated vulnerability assessments for numerous water, wastewater, chemical and federal facilities. He was lead instructor for the

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EPA-funded free vulnerability assessment and emergency response plan workshops being conducted for medium water systems, and was the EPA's lead reviewer for all water system VAs submitted to them per the requirements of the Bioterrorism Act of 2002.

Chris Conley is an Associate Professor in the Department of Civil and Mechanical Engineering at the U.S. Military Academy (USMA). He earned a B.S. in Civil Engineering from the University of Massachusetts (1978), and M.S. and Ph.D. degrees in Civil Engineering from Cornell University (1980, 1983). He has served as a Member of Technical Staff at Sandia National Laboratories (1983-87), a Senior Research Associate at Cornell University (1987-89), and an Assistant Professor at the University of Massachusetts Lowell (1989-1995). In his 13 years on the USMA faculty he has taught a wide variety of courses in the civil and mechanical engineering programs. Since joining the USMA faculty he has collaborated on research related to the response of structures to blast and penetration with personnel at the USACE ERDC Waterways Experiment Station in Vicksburg, MS, the Army Research Laboratory in Aberdeen Proving Ground, MD and at Sandia National Laboratories in Albuquerque, NM. Recently he spent three months in Kabul, Afghanistan as part of a team setting up a civil engineering program at the new National Military Academy of Afghanistan. Interactions with former USMA cadets and faculty who have served in Bosnia, Afghanistan and Iraq, and his own experience in Afghanistan, fuel a strong interest in infrastructure.

Lieutenant Colonel James B. Davis P.E., M. ASCE is a career US Army Corps of Engineers Officer with extensive construction and infrastructure experience. He graduated from Norwich University with a Bachelor of Science in Civil Engineering and received a Masters of Science degree in Engineering Management from the University of Missouri-Rolla. He is a licensed Professional Engineer in the state of Wisconsin.

His most recent position was District Engineer and Commander of the Detroit District, US Army Corps of Engineers, where he was responsible for providing federal engineering, planning, construction, real estate, and environmental services. Responsibilities included maintenance of navigation channels and harbors, navigation structures, operations and maintenance of federal locks, hydropower facilities and issuing regulatory wetlands permits; support to four states during natural disaster response operations and interfacing directly with members of Congress, numerous federal and state agencies and the public. He served as the US Regulation Representative on the Lake Superior Board for the US and Canadian International Joint Commission as implementing authority for the International Boundary Waters Treaty.

He has extensive operational, combat, and international experience to including leading the US Army infrastructure assessment team supporting US relief efforts in Pakistan after the Earthquake in 2005.

David Dee, Jr., P.E., is an Assistant Vice President and Office Manager with PB in their West Virginia office. He is a licensed Professional Engineer in the States of Maryland and West Virginia and holds a BSCE from Virginia Tech and a Master of Civil Engineering from the University of Maryland at College Park. Mr. Dee has been active in ASCE on both the national

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and local levels. He currently serves as a Region 4 Governor and is the current Past President of the WV Section of ASCE, having previously served as President of the Northern Branch, then as Secretary, Vice President, and President of the Section. On the National level, Mr. Dee became active in the former Water Resources Planning and Management Division in 1995 and is now active with the Environmental Water Resources Institute, serving as a member on the Technical Activities Executive Committee. He also serves as Vice Chair on the Management Practices for Controlling Erosion and Sediment Standards Committee. In the past, Mr. Dee has served as Chair of the Water, Wastewater & Stormwater Council, Chair of the Stormwater Infrastructure Committee, and Co-Chair of the Task Committee on Evaluating BMPs where he co-authored an ASCE publication entitled "Guide to Best Management Practice (BMP) Selection in Urban Developed Areas" in 2001. Mr. Dee was awarded the 2003 WV Section Civil Engineer of the Year award, the 1997 Edmund Friedman Young Engineer Award for Professional Achievement, and the 1997 Maryland Section Young Civil Engineer of the Year Award.

Ensign Andrew D. Descary, P.E. is a native of Bakersfield, California, and was commissioned into the Civil Engineer Corps through Officer Candidate School. He earned his Bachelor of Science in Civil Engineering from California Polytechnic State University San Luis Obispo (2005). Ensign Descary has over five years of experience in the private sector in civil and structural engineering ranging from small to mid sized firms and over a year of experience in the public sector with city government. He has worked on a wide range of projects, from foundation investigation, hydraulic modeling, and land development to performing structural condition assessments on shoreline facilities such as piers. After graduating from Officer Candidate School, Ensign Descary reported to Civil Engineer Corps Officers School, Naval Base Ventura County in Port Hueneme, California. In November 2010, he reported to his current duty station as Assistant Resident Officer-in-Charge of Construction, Marine Corps Air Station Cherry Point, North Carolina. As an active member of the American Society of Civil Engineers (ASCE) for over ten years, Ensign Descary has held offices from Treasurer to President. His most recent activity with ASCE was volunteering during National Engineers Week at an inner-city school in North Carolina teaching an eighth grade algebra class about bridges. In addition to ASCE, Ensign Descary is a member of Chi-Epsilon, the national civil and environmental engineering honors society, and the Society of American Military Engineers (SAME). New to SAME, Ensign Descary became involved by helping his post earn the Rediness and Homeland Security Streamer. During his time as a practicing civil engineer, Ensign Descary was also active in the Institute of Transportation Engineers and a member of the Earthquake Engineering Research Institute and the Structural Engineers Association of Southern California. Since reporting aboard MCAS Cherry Point, Ensign Descary has furthered his professional development and enthusiasm for public speaking by joining Toastmasters International Morehead City Club. Ensign Descary continues his commitment to service by volunteering with the Emerald Isle Parrot Head Club. He has participated in highway clean-ups and assisted the North Carolina Coastal Federation with a native plant sale. Ensign Descary is a Registered Professional Engineer (civil) in the State of California and is DAWIA Level I certified (contracting). His decorations include the National Defense Medal.

Deborah Ducote Keller, P.E., is Director of Port Development at the Port of New Orleans where she is responsible for engineering, construction, technical services, facility maintenance,

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and bridges. She has been involved with more than \$400 million of port capital improvement projects in her port career. She was graduated from Tulane University with a B.S. degree in civil engineering and received a M.S. degree in engineering management from the University of New Orleans. She is a Louisiana licensed professional civil engineer with nearly 30 years experience in the planning, design, construction, and management of public works projects. Ms. Keller is a member of the St. Bernard Parish Planning Commission and the St. Bernard Parish Economic Development Commission. She is a past president of several organizations, including the American Society of Civil Engineers in New Orleans. She is a member of the Louisiana Federation of Business and Professional Women and the American Planning Association. Ms. Keller has been the recipient of several awards including Outstanding Government Engineer for New Orleans, Distinguished Engineering Alumnus of the University of New Orleans, and has been named a Woman of the Year by various organizations.

Curtis Edwards, P.E. is a Vice President with Psomas a consulting engineering firm in San Diego, CA. He currently is the San Diego team leader for the water wastewater infrastructure group and provides consulting services to numerous public agencies including the City of San Diego, City of Los Angeles, County of San Diego, County of Los Angeles and many others throughout southern California. He holds a BSCE from the University of California – Davis and is a registered civil engineer in California and Oregon. He is very active with ASCE and is an ASCE Fellow Grade. He is currently Past Chair of ASCE’s Technical Council on Lifeline Earthquake Engineering (TCLEE) and is the current chair of TCLEE’s Earthquake Investigation Committee. As such he has lead and participated in post earthquake and post disaster investigations throughout the United States and the world. He is also an active member of the American Public Works Association (APWA) Emergency Management Committee. In 2007 he won the ASCE Region 9 “Outstanding Civil Engineer in the Private Sector” award.

Ralph Ellis, Ph.D., P.E. is currently an Associate Professor at the University of Florida, Department of Civil and Coastal Engineering, where he teaches Construction Engineering and Engineering Management. In his current position he is also actively engages in performing research on both regional and national projects relating to infrastructure renewal. Prior to joining the University of Florida, he gained 15 years of industry experience as a construction project manger and as a corporate officer. Many of the construction projects that he successfully managed were for the US Army Corps of Engineers. Dr. Ellis is a registered professional engineer in Florida. He has served in an appointed position to the Industry Advisory Panel for the US Department of State, Bureau of Overseas Building Operations. He has served as a member of the Board of Direction of the Construction Institute of the American Society of Civil Engineers and Director of the Education and Research Directorate.

Michelle J. Everett, P.E. is a Structural Engineer for L-3 Global Security & Engineering Solutions (L-3 GS&ES). Michelle currently works on-site at the Defense Threat Reduction Agency on Fort Belvoir as an analyst providing subject matter expertise. Michelle holds a BSCE from the University of Maryland and a MSCE from the University of Central Florida. Prior to joining the defense industry, Michelle was a bridge engineer working on a variety of projects, from large bridges to retaining walls. During her career Michelle has worked on projects

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throughout the state of Florida including bridge widenings and replacements for the Florida Turnpike and I-95. Michelle is the current Student Relations At-Large Member of ASCE's Committee on Younger Members. While in Florida she was heavily involved in the East Central branch and held many leadership positions for the local YMF and branch. Michelle also just completed a four year term on the ASCE's Committee on Volunteer Community Service. She was awarded the 2009 Florida Section "Young Engineer of the Year" award as well as the 2009 ERYMC award for "Outstanding Younger Member in Community Activities." Michelle is a registered Professional Engineer in the state of Florida.

John N. Furlong, P.E., D.WRE., is a senior construction manager with Halff Associates a consulting engineering firm in Dallas, Texas. He currently runs the construction management group and assists with business development. Mr. Furlong holds a BSCE from UT Austin and an MSCE from UT Arlington. He has approximately 36 years of experience in water resources, solid waste, transportation and land development projects. Mr. Furlong's past experience includes the design of dams, levees, roadways, bridges, channels, landfill cells, and other infrastructure projects. He has performed flood damage assessments for FEMA, local municipalities, and county government. Most recently he assisted in property damage assessments following Hurricane Ike in Galveston County. Mr. Furlong has presented over 30 papers and participated in several seminars/webinars in solid waste design and water resources. Mr. Furlong previously served as president of the Austin Branch and is past Treasurer and VP-Professional Affairs for the Texas Section. He recently served as a National officer, completing a three year term as a Governor from Region 6 covering Texas, Oklahoma and New Mexico 2006-2009. He served on the Program and Policy Review Committees for three years. Presently, Mr. Furlong serves on the Solid Waste Engineering Committee in the Environmental and Water Resources Institute (EWRI). He has recently selected to serve on the Board of Governors for the Construction Institute (CI). He received the Hawley award for best technical paper from the Texas Section in 2007. He received the History and Heritage award from the Texas Section in 2005. Mr. Furlong was Young Engineer of the Year in 1978 from the Preston Trail Chapter TSPE.

Steven D. Hart, Ph.D., P.E. is an Associate Professor and the Civil Design Group Director in the Department of Civil and Mechanical Engineering at the U.S. Military Academy (USMA). He earned a B.S. in Civil Engineering from the United States Military Academy (1988), M.Eng. in Civil Engineering from Virginia Tech (1998), and a Ph.D. in Civil Engineering from Kansas State University (2008). He has served in a variety of military assignments including the Executive Officer of the 2nd Engineer Battalion, Camp Castle Korea, and the Operation Officer of the 1st Engineer Battalion, Ramadi, Iraq. He has taught a wide variety of courses including Steel Design, Reinforced Concrete Design, Advanced Structural Analysis, Soil Mechanics, and the Civil Engineering Capstone course. He is currently developing a course in Infrastructure Analysis and Protective Design which should serve West Point's graduates well in combat operations and provide a foundation for graduate work in these topics.

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W. Craig Helms, P.E., F.ASCE, (Past Chair) is founder, Manager, and Principal Engineer of Civil Engineering of The Carolinas, LLC. He holds a BSCE from the University of South Carolina as well as his Master of Civil Engineering. Also, he serves as part-time Executive Director of the Carolinas Concrete Pipe and Products Association (CCPPA). Mr. Helms has served his ASCE Section in many roles, including that of Secretary, Vice President, President, and as Chairman of the Section's Environmental Technical Group. Mr. Helms has been a Delegate to the District 6 Council, twice served as the Council's Chairman, and is Past National Director for District 6. Additionally, he has served SC-ASCE as Delegate and Chairman of the South Carolina Council of Engineering and Surveying Societies (SCESS). He is currently serving SC-ASCE as Executive Director of the Volunteer Technical Assistance Group (VOLTAG). In April 2005 he was awarded The LeTellier Cup, the South Carolina Section of ASCE's highest award. Nationally, Mr. Helms has served on the Member Benefits Committee, Delegate for the Strategic Planning Committee, the Opportunity Fund Committee, the Technical Activities Committee, the Program Committee, the Committee for Academic Prerequisites for Professional Practice (CAP³), the Committee on Implementation of Governance Restructuring (GRIC), Chair of the Task Committee on Critical Infrastructure (TCCI), Advisory Panel to the 2005 ASCE Report Card on America's Infrastructure, and the Committee on Critical Infrastructure (CCI). Mr. Helms is active in many other public and professional organizations.

Bill Hitchcock, Ph.D., P.E., has a wide range of experience including five years in the U.S. Army Corps of Engineers, more than 20 years as a senior executive in energy transmission and storage companies, and over 7 years of teaching and research experience at Texas A&M University and UAB combined. Early in his career as a consulting engineer, he specialized in finite element analysis and design of energy industry tools and equipment. He then progressed into senior executive positions in the energy industry, specializing in natural gas transmission, storage, electric generation, and most recently waste-to-energy technology. Throughout his career, Bill has been deeply involved in the development of leading edge energy-related technology. He returned to academia and Texas A&M University in 2004, teaching graduate and undergraduate courses in the civil engineering department. He also prepared an in-depth graduate course in critical infrastructure protection for the George Bush School of Government and Public Service at Texas A&M University and continues to teach the course in a distance learning format. In June 2005, Bill joined the Civil, Construction and Environmental Department at The University of Alabama at Birmingham with the responsibility to lead and substantially expand the undergraduate and graduate Construction Engineering Management programs at UAB.

David Hook is an Engineering Unit Manager in the Water Utility Operations Division of the Santa Clara Valley Water District in San Jose, California. He leads the Infrastructure Planning Unit and is responsible for civil engineering support, mechanical engineering and corrosion control, dam safety program, infrastructure planning, and security for the Division. He is leading the District's Water Infrastructure Reliability Project. He is the current chair of the Bay Area Security Information Collaborative (BASIC), which is an 8-member collaborative effort of larger SF Bay Area water agencies focused on providing a secure, trusting environment to communicate and coordinate on security and emergency response and preparedness issues. He has over 25 years of experience at the District related to flood control and water supply

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engineering, and has worked on the majority of the District's major pipeline projects during that time. He graduated from UCLA with a Bachelors of Science in Engineering from the Department of Mechanics and Structures and is a licensed civil engineer in California and an ASCE Member.

Eva Lerner-Lam is the founder and President of the Palisades Consulting Group, Inc., a 19-year-old transportation technology consulting firm based in New Jersey. She was Director of Planning and Operations for the San Diego Metropolitan Transit Development Board and was appointed by then-Governor Thomas Kean to serve as member-at-large on the New Jersey Transit Board of Directors. Eva is the Past President of the Transportation and Development Institute of the ASCE and serves on numerous professional society and homeland security-related committees and panels dealing with transportation security issues, including the T&DI Transportation Security Committee, the ASCE 2005 Infrastructure Report Card Advisory Board, the Transit Security Committee of the Institute of Transportation Engineers' Transit Council, the Task Committee on Transit Security Standards for the Transit Standards Consortium and the Transportation Security Education Subcommittee of the Transportation Research Board. She also served as Co-Chair of The Infrastructure Security Partnership (TISP) Program Committee for the 4th Annual Congress on Infrastructure Security for the Built Environment (ISBE) held in St. Augustine, FL on October 2005. Eva is Past Chair of the Transit IDEA Panel for the Transportation Research Board and an active member of several Transit Cooperative Research Program panels. She has received numerous professional recognition awards, including the 1995 ITE Metropolitan Section New York/New Jersey Engineer of the Year Award and the 1998 ASCE Frank M. Masters Engineering Achievement Award. Eva is a graduate and past Trustee of Princeton University, and earned a Masters degree in Civil Engineering/Transportation Systems Division from the Massachusetts Institute of Technology.

David Lew, P.E., ASCE is a Principal of AECOM Planning, Design and Development in Washington, DC. He has over 30 years of experience in design of various building structures, wastewater facilities, bridges and highway structures. He has a specialized background in geotechnical issues and the design of foundations to resist flooding and high winds. He has an understanding of and has designed many structures for the Department of Defense using AT/FP guidelines for blast and progressive collapse. He is currently serving on AECOM Mitigation Services as a Deputy Program Manager for FEMA Hazard Mitigation Technical Assistance Program (HMTAP). He has worked with local, state and federal governments in the field of structural engineering and has investigated existing buildings for stability and renovations. He has also been involved with building collapse investigations in the Washington, DC area. He graduated from Virginia Polytechnic Institute and State University with a B.S.C.E. and also holds a Masters degree from North Carolina State University. He is currently licensed as a Professional Engineer in the States of Virginia, Maryland and West Virginia.

Eriks Ludins, P.E. Eriks received his bachelor of civil engineering degree from the University of Minnesota in 1984 and has since that time worked for the City of St. Paul Public Works Department. For the first twenty two years of his career he worked in the Bridge Engineering Division where he was responsible for design, construction management and inspection of bridge projects throughout St. Paul. In 2007 he was promoted to Assistant Transportation

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Engineer where his new responsibilities include environmental reviews, route planning, transportation needs studies and coordinating various governmental and community groups in the transportation planning process. In addition, Eriks is also the Emergency Management Coordinator for the Public Works Department where he had an active role in the City's planning for the 2008 Republican National Convention.

Active in ASCE since 1982, Eriks served eight years on the Minnesota Section's Board of Directors including a term as President from 1999 to 2000 as well as serving on and chairing several section committees. He was a Region 3 Governor from 2005 through 2009, is a past member of the Technical Activities Committee, the Codes and Standards Committee and the Policy Review Committee and currently serves on the Program Committee and is the Board Liaison for the Engineering Joint Contract Documents Committee. Eriks is a licensed Professional Engineer in Minnesota and Wisconsin.

Daniel Martin, CEM, CFM is a founding partner of Integrated Solutions Consulting and is a professor in Emergency Management at several universities. Mr. Martin has advanced degrees in Emergency Management, and is one of the nation's first doctoral candidates in Emergency Management. He is recognized as an astute professor of emergency management studies, bridging the theoretical and practical applications of the field of study and dedicated to promoting the profession. He has presented and authored on numerous emergency management topics. Mr. Martin has worked with local, state, and federal governments, as well as international corporations, in the fields of environmental engineering, public health, and emergency management. Additionally, Mr. Martin has responded in various capacities to over twenty disasters including the 2001 World Trade Center Attacks, the 2004 Florida Hurricanes, and Hurricane Katrina, and has authored scores of emergency planning doctrine.

Mr. Martin's enthusiasm for and knowledge of the profession of emergency management and the effects of disasters on critical infrastructure and communities has led him to become involved in several professional organizations including American Society of Civil Engineers' Committee on Critical Infrastructure, The Infrastructure Security Partnership, and International Association of Emergency Managers. Mr. Martin has been recognized by other in the industry as an innovative problem solver - dedicated to the profession of emergency and disaster management. Mr. Martin is a Certified Emergency Manager and a Certified Floodplain Manager. He is the National Critical Infrastructure Lead for ASCE, and chairs the IAEM Certified Emergency Manager Designation Commission.

Mathew J. Martinson, P.E., is a Lieutenant Commander with the U.S. Public Health Service Commissioned Corps, one of the seven Uniformed Services of the United States. In his almost 12 years on Active Duty, Mat has held five permanent assignments in four geographic locations. These include assignments to the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia and to the Indian Health Service in Wisconsin, Washington and Oregon. Furthermore, he has been actively engaged in emergency response and contingency activities through the U.S. Public Health Service Corps and his agencies. Mat has been involved with emergency preparedness and response through the U.S. Public Health Service Corps, through his assigned agencies and through ASCE. In September and October of 2006, he led the unified response of

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eight governmental entities' response to a water supply crisis on the Makah Indian Reservation. He also serves as Liaison Officer on a permanently configured public health response team consisting of multiple professional disciplines.

Enrique Matheu, Ph.D., currently serves as Chief of the Dams Sector Branch, in the Sector Specific Agency Executive Management Office within the U.S. Department of Homeland Security (DHS) Office of Infrastructure Protection. Dr. Matheu leads the Sector Specific Agency program for the Dams Sector (which includes dams, navigation locks, and levees), which represents a national coordination effort for the sector-specific implementation of the National Infrastructure Protection Plan, in collaboration with the private sector and federal, state, and local government agencies. Dr. Matheu holds a Bachelor of Science degree in Civil Engineering from the National University of Córdoba, Argentina; a Master of Science degree in Civil Engineering from the University of Puerto Rico at Mayagüez; and a Doctor of Philosophy degree in Engineering Mechanics from the Virginia Polytechnic Institute and State University (Virginia Tech). As part of his most recent work experience, Dr. Matheu has served as a Research Scientist at the Department of Engineering Science and Mechanics, Virginia Tech; Research Assistant Professor at the Department of Civil and Environmental Engineering at Louisiana State University; and Research Structural Engineer at the Engineer Research and Development Center, U. S. Army Corps of Engineers. Dr. Matheu's professional interests have centered in dam engineering problems, dynamics and vibrations, and structural response to extreme loads. He has authored and co-authored over 60 journal articles, conference papers, and technical reports.

Ryan B. Maw, P.E., is a Civil-Geotechnical Engineer at URS Corporation and a licensed professional engineer in both Utah and Washington State. As a member of the American Society of Civil Engineers (ASCE), Mr. Maw has been involved with the Embankments, Dams and Slopes Committee as well as the Earthquake Engineering and Soil Dynamics Committee. Locally, Mr. Maw has been engaged as the Vice Chair of the Utah Geo-Institute Chapter and a member of the Utah Government Relations Committee. Mr. Maw completed his Bachelor's and Master's degrees in Civil and Environmental Engineering at Utah State University. His graduate research focused on a potential failure modes analysis of a portfolio of geotechnical assets for the Utah Department of Transportation (UDOT). This research culminated in the creation of an asset management database and statistical assessment of observed failure mechanisms. As a technical consultant and practitioner in Civil and Geotechnical Engineering, Mr. Maw has provided innovative solutions and designs to complex problems for public and private clients throughout the Intermountain West and along the West Coast. His work across a wide range of infrastructure includes: levees, dams, mining, transportation, earthquake hazards and mitigation, emergency structures, port facilities, and Geoenvironmental projects. This experience has provided Mr. Maw with insights into the hazards and risks associated with complex, interdependent civil structures and networks. Mr. Maw's commitment to the Civil Engineering discipline centers on the responsibility of Civil Engineers to be stewards of society's infrastructure and to create resilient communities.

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Cindy Menches, Ph.D., P.E., is an assistant professor in the Department of Civil Engineering at the Illinois Institute of Technology. Dr. Menches teaches and conducts research within the Construction Engineering and Management Program, and her research interests focus on hazard mitigation, emergency contracting, and flexible decision-making. She currently teaches courses on construction contracting, project control, and project development for disaster mitigation. Dr. Menches received her B.S. in civil engineering from the University of Southern California, her M.S. in Architectural Engineering from The Pennsylvania State University, and her Ph.D. in civil engineering from the University of Wisconsin. Prior to transitioning into academics, Dr. Menches worked as an Air Force civil engineer for nine years, followed by five years as a project manager in the construction industry. During her time in the military, Dr. Menches administered numerous infrastructure projects, including road reconstruction, emergency runway repair, and upgrade to a sewage treatment plant, water treatment system, and an underground electrical utility system.

Lucero E. Mesa, P.E. is a senior bridge engineer and the team leader for the Seismic Engineering Support Group at SCDOT. During her 20 years with SCDOT, she has worked on numerous bridge projects, including the cable stay bridge over the Cooper River in Charleston, South Carolina working very closely with the Seismic Resource Panel of experts. Her major area of interest has been earthquake engineering as applied to transportation infrastructure, and the ways in which other hazards affect bridge performance. She led the development and implementation of the SCDOT Seismic Design Specifications for Highway Bridges in 2001, its 2008 update, and the SCDOT Probabilistic Seismic Hazard Maps research in 2002, and other projects to improve the earthquake engineering practice and transportation infrastructure in South Carolina. Lucero has served as chair in several committees and task forces. She is currently serving as chair of the Behavior Pile to Pile-Cap Connections Subjected to Seismic Forces research project for SCDOT (2008-2010), and the . She was co-chair of the 6th National Seismic Conference (6NSC) held in Charleston, South Carolina in July, 2008. She is a member of the TRB Seismic committee and the Geo-Seismic Sub-committee, the FHWA Virtual Team for Earthquake Engineering, the ASCE TCLEE Seismic Committee, and the ASCE Infrastructure Champion Committee, and ASCE SC. She served on the AASHTO Task Force 193 that reviewed the new seismic guidelines, and the Seismic Guidelines Improvement Team.

Charles Meyer, P.E. has over 40 years' of experience in mechanical engineering design and project management, with in-depth knowledge in the design of large governmental, institutional and commercial projects including overall planning for utilities and campus facilities. He has expertise in related areas, such as building automation and control systems, investigation of energy conservation opportunities and life cycle costing. His interests focus on the multi-discipline aspects of building design, construction and operation including the application of automation and control systems to building energy conservation.

Dr. Paul F. Mlakar, P.E., (Past-Chair) is a Senior Research Scientist in the U. S. Army Engineer Research and Development Center at Vicksburg, Mississippi. He graduated from the U. S. Military Academy and subsequently was an Assistant Professor in its Department of Mechanics. Dr. Mlakar has 39 years of experience in protective construction and the application

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of this military technology to civilian practice including U. S. embassies and other prominent buildings. He is a past chair of the ASCE Committee on Shock and Vibratory Effects and led the task committee that produced the state of the practice report, Structural Design for Physical Security, in 1999. He also led the ASCE study of the Pentagon performance in the 9/11 crash and participated in their investigation of the Oklahoma City bombing.

Karen Moran, P.E., (Past-Chair) is currently Vice President with Whitman, Requardt & Associates, a consulting engineering firm headquartered in Baltimore, MD. She is responsible for a number of water and wastewater projects for the City of Baltimore, the Washington Suburban Sanitary Commission, and the District of Columbia Water and Sewer Authority. Previously, Ms. Moran worked for O'Brien & Gere Engineers from 1980-2003 in Syracuse, NY and Landover, MD. Her work there concentrated in municipal water and wastewater engineering, from planning phases through design and construction phase. She was responsible for 5 year, \$10 million program management contract for the District of Columbia Water and Sewer Authority Water System CIP, as well as a number of other water projects in the metropolitan DC area. She also completed a number of water system vulnerability assessments and emergency response plans for municipal and governmental clients. Ms. Moran has a BS in Environmental Engineering from the State University of NY College of Environmental Science and Forestry, a BS in Civil Engineering from Syracuse University. She is a licensed Professional Engineer in NJ, DC, MD, VA. Ms. Moran currently serves as a corresponding member of the ASCE Committee on Communications and chairs the Committee on Critical Infrastructure. She also serves as ASCE liaison to Engineer's Week. She is a past president of the New York State Society of Professional Engineers served as regional vice president for NSPE's Northeast Region.

Kam K. Movassaghi, Ph.D., P.E. is president of C.H. Fenstermaker & Associates, a regional engineering, surveying and environmental consulting firm in Lafayette, Louisiana. Formerly, he was secretary of Louisiana Department of Transportation and Development (DOTD). He is a civil engineer and has served on the Transportation Research Board's Executive Committee and chaired a number of committees of American Association of State Highway and Transportation Official (AASHTO) including the Standing Committee on Research. He spent 25 years in academia as professor, researcher and administrator. His research, publication and scholarly activities were supported through grants from government and industrial sources. He is a member of Louisiana Engineering Society and American Society of Civil Engineers (ASCE). He has held leadership positions in ASCE at the local, state and national levels. In 2004 he was elected to the Board of Governors of the Transportation and Development Institute (T&DI) of ASCE, and he presided over the institute in 2007-08. He has participated in a number of activities of the National Academies. In 2006-07, he chaired a National Research Council (NRC) Committee for Study of Supply and Demand for Road Safety Professionals in the Public Sector. In 2007-08 he served on Blue Ribbon Panel of Experts, National Surface Transportation Policy and Revenue Commission. He received the 2002 National Government

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Engineer of the Year award from ASCE and in 2008 was named National Associate of the National Research Council of the National Academies. In 2009 he received ASCE Louisiana Section's Life Time Achievement award. He currently serves on ASCE Transportation Policy Committee and the Committee on Critical Infrastructure.

Joseph Monahan graduated from University of Wisconsin-Madison in May 2007 with a B.S. in Civil Engineering. He served as president of his ASCE student chapter and contributed to the concrete canoe team. His interest in infrastructure sustainability and hazard mitigation practices has inspired him to become involved with CCI. This interest may stem from being one of the co-authors for the City of Chicago All-Hazard Risk Assessment and Mitigation Plan where he used his civil engineering skills to recognize hazards and decipher their associated risks. His secondary interests with civil engineering lie with the transportation and construction management sectors, but he also has experience with water and wastewater treatment design.

Scott Nacheman is a Senior Associate in the Chicago office of the Building Technology group of the engineering firm, Thornton Tomasetti, where he specializes in building investigations, failure analysis, as well as restoration/repair design. Mr. Nacheman serves as a Structures Specialist with Illinois Urban Search and Rescue (US&R) Task Force 1 as well as DHS/FEMA US&R Indiana Task Force 1 (IN-TF1) and the IST Alternate. He is a Field Instructor for the Illinois Fire Service Institute and is an on-call responder for the Northbrook (IL) Fire Department Technical Rescue Team. Scott's interest in disaster mitigation is a result of his over 8 years experience with the fire service in New York, where he served as a Firefighter and Lieutenant. These experiences have fostered a keen understanding of the importance of multi-hazard resistant design, the need for improved fire and life-safety for building occupants and rescuers, and the necessity for enhanced structural disaster response capabilities for first responders. Mr. Nacheman is currently involved in several University-based research projects related to emergency response and post-disaster evaluations of structures. In addition he serves as an Advisory Member to the Illinois Terrorism Task Force and is currently involved with the development of the Building Industry Emergency Response Network. Scott is a Certified Fire and Explosion Investigator and a Member of Technical Committees of the National Fire Protection Association (NFPA), Society of Fire Protection Engineers (SFPE), American Institute of Architects (AIA), and the National Council of Structural Engineers Associations (NCSEA). Scott received his Masters degrees in both Architecture and Civil Engineering from the University of Illinois at Urbana-Champaign.

Yazmin Seda-Sanabria is the National Program Manager of the Critical Infrastructure Protection and Resilience Program of the U.S. Army Corps of Engineers (USACE) under the Directorate of Contingency Operations and Homeland Security at the USACE Headquarters Office. In this role, Ms. Seda-Sanabria oversees the development and implementation of a national risk management strategy for the protection, security, and improved resilience of the USACE's portfolio of critical dams, navigation locks, and levee systems. Prior to her tenure at USACE Headquarters, she worked at the U.S. Army Engineer Waterways Experiment Station –

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now U.S. Army Engineer Research and Development Center (ERDC) – as a research structural engineer in the Geosciences and Structures Division, Geotechnical and Structures Laboratory.

E. Douglas Sethness, Jr., P.E., is Vice President and Senior Program Manager at CH2M HILL. Mr. Sethness has more than 25 years of domestic and international experience in the planning, designing, and managing infrastructure improvement programs in the power, mining, petroleum refining, marine, and aquaculture industries using his expertise in civil, environmental, hydrologic, and ocean engineering. His expertise in managing all aspects of high-visibility port and marine design projects is coupled with a strong background in security and anti-terrorism activities. Mr. Sethness currently serves as Senior Program Manager for a large container port development for a confidential client. Prior to his current assignment, he served as Senior Program Manager of the Bayport Container Terminal project for the Port of Houston Authority. The proposed \$1.2 billion 1145-acre Bayport Terminal Complex project will become the largest terminal in the Americas. Mr. Sethness previously served as Assistant Chief Harbor Engineer for the Port of Long Beach, California. He shared responsibility \$2.5 billion in capital improvement projects including involvement in programs like the Alameda Corridor and the redevelopment of the Long Beach Naval Station and Shipyard. Mr. Sethness was Senior Program Manager for the Port of Seattle, Washington. He managed the redevelopment design of Terminal 5 for American President Lines which, valued at over \$250 million, was the largest program ever undertaken by the Port of Seattle. Mr. Sethness' strong security credentials arise from his military work as a Colonel in the US Army Special Forces. He was recalled to active duty after 9/11/01 and was assigned to the Special Operations Command supporting US Central Command. In this position, he served as a senior planner and as the Chief of Staff to the Commander of Special Operations Command Central, who was responsible for all Special Operations Forces in the Middle East, including Afghanistan, Pakistan, and Iraq. Colonel Sethness deployed to the Middle East and became the senior officer responsible for US forces in Yemen. Currently, Mr. Sethness has provided security services including Vulnerability Assessments, creating Facility Security Plans, and managing design/build security projects for public ports such as Port of Freeport, Port of Corpus Christi, and Port of Houston, as well as for private clients like Intercontinental Terminals Company and Houston Fuel Oil Terminal Company. Mr. Sethness was the first president of the Coast, Oceans, Ports and Rivers Institute (COPRI) of the American Society of Civil Engineers (ASCE). Mr. Sethness has also served as the Chairman of the Ports and Harbors Committee and is an author of the ASCE Manual 50 – Planning and Design Guidelines for Small Craft Harbors.

Chris F. Siavrakas, P.E., PTOE has recently been appointed to be the Emergency Management Coordinator for the Utah Department of Transportation. Chris has worked in the UDOT Traffic Operations Center in Salt Lake City for various Traffic Engineering Positions for over ten years, but most recently as the Control Room Engineer managing the traffic operators monitoring the Interstate and roadway system for more than five years. Interest in Roadway Incident Management lead to the FEMA Emergency Management Programs and courses. Chris just recently completed the coursework to obtain the FEMA Advanced Professional Series Certificate in Emergency Management. While still maintaining engineering aptitude, Chris also has obtained the Professional Transportation Operations Engineer (PTOE), through the Institute of Transportation Engineers, Transportation Professional Certification Board. Chris is also a

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Licensed Professional Engineer in Utah. Before managing the Control Room, Chris worked as an Area Traffic Engineer. During the 2002 Winter Olympics, Chris served as the Downtown SLC and Stadium Area Traffic Engineer coordinating road closures and traffic impacts with the Salt Lake City Transportation Division, the Utah Olympic Public Safety Command, the Salt Lake Organizing Committee, and the Utah Transit Authority. Prior to joining UDOT, Chris worked for Holmes & Narver Consultants, Parsons Transportation Group, in Utah and part-time in college with Parsons Brinckerhoff in Tucson, Arizona. Chris has also served two summer internships working for the Arizona Department of Transportation. In ASCE, Chris was the founder of the Utah Younger Member Forum, in 1998, and has served in as the President in 2002. Chris has served as a Corresponding Member of the Committee on Younger Members in for three annual terms, and as the Central Region Member for CYM. Chris was the Conference Chair for the 2006 Western Regional Younger Member Council for the Multi-Region Leadership meeting in Salt Lake City.

James F. Smith, Ph.D., P.E., primarily researches and publishes in the area of airports, emergency management, disasters, and catastrophes. His interest in critical infrastructure arose from teaching natural disaster management at American Public University System, better known as American Military University, where he is Professor. Jim's primary research tools are public budgeting, policy review, and program appraisal (evaluation research). Previously, he worked as a county water and sewer director in Virginia, an environmental enforcement officer with Virginia DEQ, a water quality and coastal planner with the State of North Carolina, and a county planner in California. He is a Captain, USNR (Ret.), where he served 1967-1996 in oceanographic, hydrographic, and meteorological billets. Jim's Ph.D. is from Virginia Tech in environmental design and planning.

Ronald E Smith Ph.D., P.E. is a semi-retired geotechnical engineering consultant who currently serves as Technical Region Director on the ASCE Board of Direction. He is a past President of the Geo-Institute and currently serves on ASCE's Post-Katrina Critical Infrastructure Guidance Task Committee charged with evaluating past infrastructure problems in order to develop guidance for existing and future critical infrastructure projects. He has a broad range of geotechnical and geo-environmental engineering experience extending over 40+ years. He has worked on numerous infrastructure projects involving transportation, power supply, water supply and wastewater transmission. He is a specialist in underground engineering and construction, having taught graduate level courses in this area at UNLV. He began his career teaching civil engineering for four years at the University of Florida. He spent 29 years with Woodward-Clyde. His final assignment with URS/Woodward-Clyde was as Senior Vice President managing the firm's work in Scientific Programs for nuclear waste disposal for the Yucca Mountain Site Characterization Project. Subsequently he spent six years with Kleinfelder as Chief Technical Officer and CTO Emeritus.

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Dr. Ramakrishna R. Tadi, P.E., is currently working as an Assistant District Traffic Manager with the State of California, Department of Transportation (Caltrans) in San Bernardino, California (USA). Prior to joining Caltrans 8 years ago, Dr Tadi was an Associate Research Engineer at the University of California, Riverside where he was responsible for goods movement related projects. He received his B.E (Civil), M.Tech (transportation) from India, and Ph.D. (Transportation) from the U.S. Dr Tadi is a registered Professional Engineer in California and had more than 20 years of both academic and practical experience in the fields of transportation planning, transit research and traffic engineering. Dr Tadi is very active in many of the American Society of Civil Engineers' Technical committees and is currently serving as vice chair of the transportation operations security committee and Secretary of the Public Transport Committee. He has published more than 35 technical papers in various professional journals and invited to speak at many national and international conferences.

Dennis Tewksbury, P.E. is retired after a 40 plus year career in Civil / Structural Engineering. For 20 years he managed his own consulting firm and for 20 years he worked for regional and national engineering consulting firms. Since 2004, he has been a FEMA Disaster Reservist..He has been the Chair of numerous ASCE Board Level Committees, ASCE District 2 Director, and Region 1 Vice President. He was Chair of the multi-structural engineering Task Force to study the feasibility of establishing an Institute to utilize human and financial resources to be more efficient and effective activities and programs. He served as the first President of the Structural Engineering Institute for 3 years. He was the first recipient of the State of New Hampshire Young Engineer of Year Award (50 years ago!!). He was the first Recipient of the Dennis L. Tewksbury Award established by SEI.

Robert Turner, P.E., is a licensed professional engineer, a fellow in the American Society of Civil Engineers (ASCE), and a member of the Institute of Transportation Engineers, (ITE). He is a graduate of Gonzaga University with a Bachelors in Civil Engineering. He also has a Masters Degree in Business Administration and a Masters Degree in Public Administration, from Eastern Washington University. Bob has worked for a consulting firm, Spokane County, and is currently employed with the City of Spokane as the Traffic Operations Engineer. Bob has served on the Board of Directors for the Inland Empire Section of ASCE and is past president of the section. Bob has also served as the national ASCE chairperson of the Committee on Diversity and Career Guidance. Bob is also currently working as an adjunct professor in the engineering school at Gonzaga University.

David Westerling, PhD., P.E., F.ASCE, Associate Professor, Merrimack College, North Andover, Massachusetts holds an Associate Degree in Civil and Highway Engineering from Wentworth Institute, Boston, MA, and a BSCE from the University of Massachusetts at Amherst. He also earned an MSCE and PhD in Civil Engineering from the Worcester Polytechnic Institute. Initially a Field Construction Engineer with M W Kellogg, he worked on the Ammonia Synthesis Loop at United Steel Works in Clairton, PA and the American Oil Refinery Expansion at Texas City, Texas. After graduating from UMASS, he worked with the USDA Soil Conservation Service as a Engineering Specialist and the Farmers Home Administration as State Engineer for Massachusetts, Connecticut and Rhode Island. He also has experience as an Hydraulic Engineer with the US Fish and Wildlife Service working on fish passage facilities

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associated with the re-licensing of hydro-electric facilities along the East Coast of the U.S. He began a teaching career in 1985 at Merrimack College and has taught a variety of courses from Freshman Engineering Communications to Senior Design. He has been active with ASCE at the local and national level. He served as President of the Boston Society of Civil Engineers Section/ASCE and has served on many ASCE committees at the National Level. He is a past ASCE Congressional Fellow and served in the U.S. Senate and is currently on the ASCE Congressional Fellow Nominating Committee. After his Congressional Fellowship, Westerling ran unsuccessfully for the Massachusetts House of Representatives, but has since served as Town Moderator in Harvard Massachusetts and recently won his re-election race with over 80% of the vote. He recently completed some Post-Doctoral work at the Kennedy School of Government at Harvard University in the area of Disaster Management and Incident Response.