Combat Search and Rescue in Highly Contested Environments - A Workshop

Committee

Douglas M. Fraser

Chair

General Douglas Fraser (USAF, Ret.) is principal of Doug Fraser, LLC. He retired from the U.S. Air Force in January 2013 after a 37 year career. Since retiring, General Fraser works as a global security consultant with several U.S. defense companies. His last assignment in the U.S. armed forces was as the Commander, U.S. Southern Command, responsible for U.S. military operations in Central and South America and the Caribbean. In this capacity, General Fraser was responsible for leading Department of Defense relief efforts following the 2010 Haiti earthquake. Prior to commanding U.S. Southern Command, he served as the Deputy Commander, U.S. Pacific Command from 2008-2009. General Fraser commanded operational flying units across the U.S. Air Force at the squadron, group, and wing levels.

Curtis Bedke

Member

Major General Curtis Bedke (USAF, Ret.) is an independent consultant. He is a defense aerospace and federal science and technology expert with leadership experience in both the public and private sectors. As president of Bedke Concepts, he provides thoughtful, deliberate S&T strategy and policy analysis, combining creative, open-minded perspectives with fiscal discipline to develop realistic options. Mr. Bedke has more than 35 years of experience in science and technology, experimental flight test, acquisition, command and control, and operations of defense weapon systems. A retired Air Force Major General, he was commander of the Air Force Flight Test Center and Air Force Research Laboratory. In the federal marketplace, he was a successful vice president/general manager of S&T in both private and public corporations, specializing in high performance computing and scientific computing for the federal government (both DoD and civilian).

Robert Ferry, Jr.

Member

Dr. Robert Ferry Jr., is president at Endo4Life, PLLC in San Antonio, Texas. He attained his baccalaureate in molecular biophysics and biochemistry from Yale College (1989). After receiving his doctorate in medicine and residency training in pediatrics from The University of Texas Health Science Center at San Antonio (1994), he completed fellowship training in pediatric endocrinology at The Children's Hospital of Philadelphia (2000). Dr. Ferry holds active board certifications in pediatrics (since 1997), pediatric endocrinology (since 2003), and disaster medicine (since 2008) as well as active medical licensure in TX, TN, and NE. He served over 16 years on the faculty of three major American medical schools, where his NIH-funded research focused on endocrinology. His leadership roles in academia included fellowship program director, tenured full professor, and division chief. He currently holds adjunct faculty appointment in the Psychology Department at The University of Memphis. Dr. Ferry has authored 96 peer-reviewed articles (h-index 29) and 41 book chapters. He edited Management of Pediatric Obesity and Diabetes (2011), which yielded over 19,000 chapter downloads. He served as peer reviewer on 63 research panels for the NIH, U.S. Department of Defense, Veterans Administration, Welsh Government, private foundations, and professional societies. He served as principal or co-investigator on over 20 clinical trials (phases I-IV) sponsored by NIH or industry. Colonel Ferry received his direct commission in the Texas Army National Guard (2004). During Operation Iraqi Freedom (2005-5; 2009), he served with the U.S. Army in forward roles as a field, battalion, task force, and brigade surgeon. Also, he thrice deployed to Iraq during 2007-09 as a volunteer with the U.S. State Department to support the Iraqi Ministry of Health. The American College of Surgeons has recognized Dr. Ferry as an instructor of Advanced Trauma Life Support since 2012. Colonel Ferry has served in progressively more responsible roles in the Texas Army National Guard, most recently as state army surgeon (2013-16) and brigade commander for Texas Medical Command (2016-17), when Texas attained the highest level of medical and dental readiness in recent history for nearly 19,000 service members. Dr. Ferry will attend the U.S. Army War College during AY17-18.

Nancy A. Forbes

Member

Ms. Nancy Forbes is senior principal member of the technical staff at Zell Technologies, Inc. where she directs the Red Cell at the Joint Improvised-Threat Defeat Organization (JIDO), under the Defense Threat Reduction Agency (DTRA). She has over 25 years' experience with a broad range of military research and development (R&D) programs, ranging from management and technical oversight to assessment, acquisition and systems engineering. She has served on the National Academies of Science (NAS) Air Force Science and Technology Board and is currently part of the NAS Intelligence Science and Technology Experts Group (ISTEG). She has worked with R&D programs for the U.S. Special Operations Command (USSOCOM), the Joint Improvised-Threat Defeat Organization (JIDO), and the Defense Advanced Research Projects Agency (DARPA), interfacing with senior government officials, program managers, engineers and operators to better align technology with warfighter needs and mission objectives. She has expertise with C-IED technology, special communications, technology hazard analysis, novel computing technologies, and emerging technologies for military usage. She holds a BS and MA degrees in physics from Columbia University and has authored two books and numerous publications.

Monty Greer

Member

Colonel James L. Greer is operations and coordination division head, USAF, NATO Science and Technology Organization. He will retire from the USAF in September 2017. In his last assignment, he served as the director of operations and coordination for the Collaboration Support Office of the NATO Science and Technology Organization where he leads a team of 17 international officers and civilians in the executive management of NATO's S&T Collaborative Program of Work. As director of the C-17 Developmental Flight Test Team, he led execution of accelerated testing to support multiple combat mission need efforts including the Large Aircraft Infrared Counter Measures program now protecting C-17 aircraft from man-portable missiles. While deployed to MNSTC-Iraq, Col Greer directed requirements definition for $250M worth of border infrastructure construction which was instrumental in securing Iraq's borders in preparation for the first post-Saddam Hussein elections. Col Greer deployed to Kabul, Afghanistan as an AFPAK Hand supporting HQ ISAF where he was the special assistant to the Minister of Rural Rehabilitation and Development in 2008 and 2009 and the special assistant to the minister of counter narcotics in 2011 and 2012. He received his bachelor of science mechanical engineering in 1990 from the University of California – Davis, a master of science in mechanical engineering from Purdue University in 1996 and in 2002 he received his doctor of philosophy in mechanical engineering from the University of Texas-Austin.

Stanley T. Kresge

Member

Lieutenant General Stanley “Ted” Kresge (USAF, Ret.) is an independent consultant. He possesses extensive experience in Airpower, Integrated Air and Missile Defense, Command and Control, and Pacific operations. Lt Gen Kresge completed 34 years of Air Force service in 2014. He is a career F-15 pilot with over 4,000 hours flight time. His commands included the 33d Fighter Wing, the 379th Air Expeditionary Wing, the Air Force Warfare Center, and 13th Air Force. As an Air Force Senior Leader, he held staff positions at the Air Force Office of Legislative Liaison, Air Combat Command, NORAD/NORTHCOM, and Air Force Space Command. Most recently, he served as vice commander, Pacific Air Forces. Lt Gen Kresge received a bachelor’s degree from the U.S. Air Force Academy and a master’s degree in strategic studies from Air University. He is a member of the Air Force Association and a non-resident fellow for the Mitchell Institute.

David M. Van Wie

Member

Dr. David Van Wie (NAE) is the Mission Area Executive for Precision Strike at the Johns Hopkins University Applied Physics Laboratory (JHU/APL) with responsibility for the strategic planning executing, and performance of programs addressing detection and targeting, kinetic engagement, and electronic attack capabilities. Prior to his current assignment, Dr. Van Wie was the Chief Technologist for the Precision Strike Mission Area where he focuses on technology development supporting asymmetic muli-domain system concepts for use in Anti-Access/Area-Denial environments. Dr. Van Wie holds a research faculty position in the Department of Mechanical Engineering at the Johns Hopkins University and has lectured extensively in the Department of Aerospace Engineering at the University of Maryland. He served on National Academy of Science National Research Council committees addressing Conventional Prompt Global Strike, Civil Booster Systems, and Air Force Development Planning. Dr. Van Wie also served as a member of the USAF Scientific Advisory Board (SAB) conducting studies on hypersonic systems, small precision weapons, virtual training technologies, future launch vehicles, and munitions for the 2025+ environment, and he served as the Vice-Chair and Chair of the 2010 and 2011 Air Force Research Laboratory Science & Technology Reviews, respectively. Dr. Van Wie is a Fellow of the American Institute of Aeronautics and Astronautics (AIAA), an active member of the U.S. science and technology community, and has published extensively in the fields of high-temperature fluid dynamics, plasma aerodynamics, and hypersonic airbreathing propulsion systems.