



Erwin Sabile, CTEP, ITEA Hampton Roads Chapter President

Mr. Erwin Sabile was raised in Virginia Beach, VA. He graduated with a B.S in Civil Engineering from Old Dominion University and a Master of Arts in Defense and Strategic Studies with the Navy War College. He holds a Graduate Certificate in Public Health Preparedness: Disaster and Bioterrorism with the Pennsylvania State University.

Mr. Sabile is a T&E Chief Engineer with Booz Allen Hamilton with over 17 years of Acquisition, DT&E, IT&E, OT&E, and FOT&E experience. Experience includes a unique blend of OT&E experience as a Test Director at OPTEVFOR and non-traditional T&E experience supporting various PMO's such as PEO IWS, PEO C4I, PEO USC, 5G, and various Joint Chem Bio Program Offices. Mr. Sabile also supported DHS in support of various Cyber Tabletops Exercises.

As a Navy Reservist, he serves as Navy Reserve 7th Fleet's Assessment Warfare Director and recently served as the OIC in support of MAKO SENTRY 2024 Exercise, one of the Chief of Navy Reserve directed exercise.

He supported the 2020 Operation Al Qaeda in East Africa operation, where he served as Combined Joint Task Force – Horn of Africa Assessment Lead and Key Leader Engagement Branch Chief. Mr. Sabile also served as the Executive Officer for CNRMA and the OIC during BOLD ALLIGATOR Exercises and AADC in support of various battle groups Fleet Synthetic Training (i.e., BATAAN/KEARSARGE ARG / 26 MEU and HARRY STRUMAN). He supported the Ballistic Missile Defense Exercise (BMDEX) at DTC LANT C2 Cell in support of USS BARRY BMDEX Certification and USS STOUT Integration Training Event.

He is currently the ITEA Hampton Roads ITEA Chapter President, Treasurer for the ITEA Board of Directors, and was the Program Chair for the 2023 Cybersecurity Workshop and 2022 ITEA National Symposium.

He is an avid hiker who's hiked Kilimanjaro and Machu Pichu and a frequent Shenandoah National Park hiker. Mr. Sabile is a member of the International Coaching Federation and coaches young T&E professionals and Veterans transitioning out of the military.

AI in T&E



**Dr. Kimberly Sablon, Principal Director for Trusted AI and Autonomy,
Undersecretary of Defense for Research and Engineering (USD (R&E))**

Dr. Kimberly Sablon received her PhD in applied physics with a focus on nanophotonics from the University of Arkansas in 2009. She has published more than 60 peer-reviewed papers and contributed to ten scientific and technical books. She performed a set of critical reviews to identify technological challenges and research opportunities in the areas of reconfigurable multimodal sensing, communications, cognitive autonomous systems, AI-controlled networks and generative AI that could offer the greatest benefit to the Department of Defense while assessing the risks to national security.

In her current role as the Principal Director for Trusted Artificial Intelligence and Autonomy at the Office of the Assistance Secretary of Defense for Critical Technologies, Dr. Kimberly Sablon leads and coordinates scientific and technological efforts to ensure DOD superiority in future cognitive autonomous systems and hierarchical networks placing much emphasis on testing, evaluation, verification, and validation of dynamic AI systems. To accelerate development of AI-enabled systems and critical enablers, Dr. Sablon has set a strategic vision that is centered around AI systems engineering taking into consideration complexities of the real-world environment. Her strategic vision reflects the need for an advanced intellectual and research base in critical areas, which includes multimodal and interactive trusted perception, Warfighter-in-the-loop design, development and training in live, virtual and constructive environments, autonomous cognition and prediction, distributed, hetero-hierarchical AI architectures to enable edge intelligence, autonomous networks of autonomous systems, and continuous adversarial testing and red-teaming to enhance resiliency of AI systems against adversarial manipulation and deception along with development of approaches for recognizing machine-generated deception. Considering AI operation in autonomous systems requires novel hardware, Dr. Sablon works closely with industry to ensure development of hardware with embedded intelligence to support continuous learning at the edge taking into consideration limited energy budgets and weight constraints. Furthermore, in this role, Dr. Sablon has put in place key initiatives to include a Center for Calibrated Trust Measurement and Evaluation (CaTE) that will serve to operationalize responsible AI for the DOD, AI hubs clustered around imaging processing, signal processing and decision making, and a Community of Action with focused integrated product teams to accelerate AI capabilities for the DOD.

AI in T&E



In her previous position as Director of Army Science and Technology, Army Futures Command, Dr. Sablon developed a pipeline for innovation in areas such as AI-controllable networks, distributed AI with emphasis on decentralized architectures that can adapt to the changing electromagnetic environment, control data rates and spectrum requirements, neuromorphic cyber, and Soldier-AI system adaptation. To accelerate development of a strong AI base while ensuring security of these systems, Dr. Sablon led the development of Army S&T strategies across the Army priority research areas to include emerging cyber technologies. Her strategy emphasized development of dynamic, self-learning information systems capable of detecting and isolating threats to provide effective response to suppress sources of attacks, and to reason about deception in a way that would ensure secure operation of the of AI-agents while making our Warfighter less vulnerable and more lethal.

Considering the rapid changing landscape of AI-based technologies and its potential to change the game for sensing, navigation, human-AI teaming and communications, Dr. Sablon continues to work with the broader research and development ecosystem to ensure the DOD is equipped with the right technologies to defend our nation.

AI in Program Management Offices (PMO) /Program Executive Offices (PEO)



Brigadier General Robert K. Lyman, USAF (Retired)

Rob Lyman is a retired Brigadier General of the U.S. Air Force, with almost three decades of experience in cyberspace operations, logistics, and special operations. He retired from active duty as the Assistant Deputy Chief of Staff for Cyber Effects Operations on the Headquarters Air Force staff at the Pentagon, where he was responsible for the development of over 36,000 cyber professionals. He has extensive experience developing organizational strategy, funding large projects, managing union relationships, leading digital transformations, integrating emerging technologies, mitigating cybersecurity and other strategic risks, and managing diverse talent.

Rob previously served as the Chief Information Officer at United States Transportation Command, Joint Special Operations Command, Air Mobility Command, and the Air Force Life Cycle Management Center. In those roles he led digital transformations moving applications to the cloud, setting conditions for use of artificial intelligence and machine learning, and mitigating cybersecurity threats from strategic competitors. As the Commander of Joint Base Charleston he led thousands of service members

AI in T&E



leveraging a \$7.8B infrastructure to support the U.S. Army's busiest port shipping 48% of Department of Defense surface exports, and the U.S. Air Force's busiest airfield operations of over 16,000 annual flights. He directed the evacuation of 23,000 base personnel, plus their families, during Hurricane Matthew as well as the recovery after the storm. He served in command at multiple levels and in numerous key positions at the Pentagon, Combatant Commands, and Air Force staffs.

He is widely respected as an inspirational and transformational leader. As a senior cyber and national security executive he led teams that twice won the National Security Agency Rowlett Award as the best cybersecurity organization in Federal Government. He is a Federal 100 award winner, and a ComputerWorld Premier 100 award winner. He has been recognized for continued leadership by the Association of Defense Communities, Armed Forces Communications & Electronics Association, the Signal Corps Regimental Association, and the Military Cyber Professionals Association.

Rob was selected from a national applicant pool as a White House Fellow, where he served as a Senior Advisor in the Department of Transportation. He earned a Bachelor degree in Electrical Engineering from Rensselaer Polytechnic Institute and a Masters degree in Organizational Management from George Washington University. He holds a Certificate in Legislative Studies from the Government Affairs Institute at Georgetown University. He is a graduate of the U.S. Army Command & General Staff College, Air Force Air Command & Staff College, Air War College, and the Joint Forces Staff College. His executive education includes professional development programs at the Harvard Kennedy School, University of North Carolina, the Center for Creative Leadership, and National Association of Corporate Directors. Rob holds a Top-Secret clearance. He resides in the Oklahoma City metro with his wife and two daughters.



Rohintan C. Patel, Deputy, Office of the Acquisition Executive Agent for Autonomy Program Executive Office, Unmanned and Small Combatants Naval Sea Systems Command

Mr. Patel is establishing the Department of the Navy's Office of the Acquisition Executive Agent for Autonomy to address common challenges facing the naval enterprise in developing trusted autonomy. Currently, he is leading enterprise-level initiatives to synchronize autonomy acquisition programs and establish an evaluation framework for intelligence-enabled autonomy. Future initiatives include data management and machine learning frameworks supporting intelligence-based technologies.

AI in T&E



Mr. Patel has 33 years of experience in systems engineering, prototype development, and acquisition management. Leading multi-agency/multi-service teams, he executed \$700 million in the development, operations, and sustainment of radar ships, optical sensor aircraft, space-based communication architectures, and other specialized technologies for the Missile Defense Agency (MDA), U.S. Navy, and Special Operations Command. As the Director, Systems Engineering Division (SED) for U.S. Customs and Border Protection, the largest law enforcement agency in the United States, Mr. Patel led the transformation of SED from an acquisition-support organization into CBP's corporate resource for systems engineering by launching new initiatives in rapid evaluation, digital engineering, and cyber engineering tailored to border security operations.

In partnership with NASA, U.S. Strategic Command, and the Intelligence Community; Mr. Patel developed the first space operations risk management framework; inclusive of analytical tools, standards, and national policy; enabling the United States to safely conduct high altitude missile defense operations. As a principal advisor to the Director/MDA, he applied this body of work to Operation Burnt Frost enabling the President of the United States to authorize the intercept of a disabled satellite in February 2008.

Additionally, Mr. Patel volunteered for a 16-month deployment to Afghanistan and established the Strategic Initiatives Office at Resolute Support, U.S. Central Command (CENTCOM). Collaborating with NATO and the Department of State, he formed multi-national teams, gained political support, and successfully implemented capability and capacity development programs for Afghanistan.

Across his career, Mr. Patel established enduring alliances with organizations internal and external to the U.S. Government. Through these alliances, he marshalled the resources and talent needed to resolve engineering, policy, legal, and operational challenges to enhance the security of the United States.

Mr. Patel has a Bachelor and Master of Science in Aerospace Engineering from the University of Southern California. He has received several engineering and technology development awards from the Missile Defense Agency and two Meritorious Civilian Service Awards from the U.S. Navy and U.S. Central Command.



Mike Schwartz, USA, Chief Engineer, Program Executive Office Intelligence, Electronic Warfare, and Sensors (PEO IEW&S)

Mr. Mike Schwartz is currently serving as the Chief Engineer for the Program Executive Office for Intelligence, Electronic Warfare, and Sensors (PEO IEW&S). He is responsible for the strategic oversight and guidance across the portfolio in the area of System of Systems Engineering. Mr. Schwartz oversees design, engineering, and development activities including over 60 programs of record and over 30 quick reaction capabilities and supports the acquisition engineering process and priorities for an annual \$3 billion budget. He also manages one of the Army's largest information technology cybersecurity portfolios involving over 100 national security and intelligence systems in both development and sustainment.

Previously, Mr. Schwartz served as the Combat Capabilities Development Command (DEVCOM) Science and Technology Advisor to the Network Cross-Functional Team where he coordinated among stakeholders to inform requirements and drive the transition of capabilities into programs of record to help modernize the Army. From 2016-2019, Mr. Schwartz served as the Integrated Offensive Electronic Warfare Branch in the Cyber/Offensive Operations Division at the Intelligence and Information Warfare Directorate (I2WD) within the DEVCOM Command, Control, Communications, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center. He was responsible for a multi-million-dollar portfolio focusing on Electronic Warfare applied and advanced technology research and development. From 2010-2015, Mr. Schwartz gained significant international experience when he served as the Science Advisor for Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) technologies at DEVCOM-Atlantic in London, United Kingdom.

In over 22 years of civilian federal service, Mr. Schwartz has served as a Computer Engineer and Electronics Engineer at the C5ISR Center, supporting airborne sensors and quick reaction technologies. Mr. Schwartz has substantial experience supporting the Project Manager, Aerial Common Sensors as the Assistant Product Manager of an Unmanned Aircraft System sensor payload program where he focused on the technical and programmatic management of a research and development system in all phases of acquisition (6.1-6.3 Research and Development, Engineering and Manufacturing Development, and Production). Mr. Schwartz received the Superior Civilian Service Award in 2015 for his work at DEVCOM-Atlantic and the Civilian Service Commendation Medal in 2020 for his work at the Network Cross-Functional Team.



Mr. Schwartz holds a Bachelor's Degree in Electrical and Computer Engineering from Lafayette College, Pennsylvania, and Master's Degrees in Electrical Engineering and Technology Management from the Stevens Institute of Technology, New Jersey.

AI in Test Agencies



Mr. Nilo Thomas, Software and AI Advisor, Strategic Initiatives, Policy, and Emerging Technologies, Director, Operational Test and Evaluation Office of the Secretary of Defense

Mr. Nilo Thomas currently serves as the software and AI advisor in DOT&E's Strategic Initiatives, Policy, and Emerging Technologies division. He also served as a test manager within the Air Force's 47th Cyberspace Test Squadron for 8 years where he led some of the largest test programs, including those for the Unified Platform and Joint Cyber Command and Control and the DoD's cyberspace weapon systems. Mr. Thomas graduated from New Mexico State University in 2013 with a B.S. in Aerospace Engineering.



Dr. David Sparrow, Analytic Support, Developmental Test, Evaluation and Assessment, Institute for Defense Analyses

David A. Sparrow received a Ph.D. in physics in 1974, and spent 12 years as an academic physicist. He joined IDA in 1986 and has been a Research Staff Member ever since, with brief forays into management and government service. He was the first Director of the IDA Simulation Center from 1989 to 1990, and Assistant Director of the Science and Technology Division from 1993 to 1997. He then joined the government for a two-year stint as Science Advisor on Modeling and Simulation to the Director, Operational Test and Evaluation. When returning to IDA, he focused on technical issues in system development, especially ground combat systems—expansively defined to include unexploded ordnance (UXO), counter mine, and, occasionally, missile defense. Technology insertion has increasingly involved autonomy and artificial intelligence, and his recent work has concentrated on Test and Evaluation of AI components and AI enabled systems. He has authored ~100 refereed papers and invited talks on various academic and national security topics.



Jonathan Elliott, OSD, Director of Assessment and Assurance Chief Digital and Artificial Intelligence Office (CDAO) | Directorate for Algorithmic Warfare

Jonathan Elliott is the Chief of Test & Evaluation (T&E) for Chief Digital and Artificial Intelligence Office (CDAO). He has more than a decade of experience in T&E of unmanned, autonomous, and AI systems. Previously, Jon was Principal Project Lead and Group Lead at MITRE. He led the federally funded research and development center's efforts to develop AI Assurance methodologies and, since 2019, worked to

stand up the Joint Artificial Intelligence Center (JAIC), now the CDAO. In addition, he served as Chief Engineer for Autonomy, Artificial Intelligence Test (AAIT) Technology, at the Test Resource Management Center (TRMC). In that role, he oversaw development of new science and technology tools to test AI and autonomy. He led multiple large T&E efforts related to AI and autonomy programs and helped architect the T&E of AI Framework, currently implemented at the CDAO. Jon has M.S. and B.S. degrees in aerospace engineering from the University of Maryland.

Peter Colsch, Threat Counter-AI, US Army, Threat Systems Management Office (TSMO)

Mr. Peter Colsch joined the US Army Threat Systems Management Office (TSMO) as an Army civilian in 2002 and spent most of the following 22 years supporting the establishment and operation of the DOD Red Team capabilities there. This work involved the cyber and physical adversarial assessments of enterprise systems, weapons platforms, and organizations across the DOD in support of Army T&E and the DOT&E Cyber Assessment Program. He is currently focused on leading the Threat Counter Artificial Intelligence efforts for TSMO.

AI in T&E



Dr. Susan Sorenson, US Space Force, Space Training and Readiness Command (STARCOM)

Dr. Sorenson currently serves as the Space Training and Readiness Command (STARCOM), Analyses and Assessments Division Chief. She is an accomplished data science professional with expertise in the operational test of military systems, Design of Experiments, and scheduling optimization. As the STARCOM Chief Analyst, she provides leadership and technical expertise across the command on topics such as data driven decision making, throughput and outcomes of education and training systems, budgetary requirements prioritization, and the scheduling optimization of test and training assets. She is also STARCOM's authority for statistical adequacy and analytical rigor for all phases of systems test planning, execution, and reporting.

She has over 35 years of government service which includes multiple assignments at the Air Force Operational Test and Evaluation Center (AFOTEC), staff experience in USCENTCOM and USSTRATCOM, USAFA faculty, and 2500+ flight hours on MC-130 E/H/P COMBAT TALON I and II, COMBAT SHADOW, AC-130 H/U SPECTRE/SPOOKY Gunships, RC-135V/W RIVET JOINT, C-130H SENIOR SCOUT, and E-3A AWACS.



Dr. Daniel Suma, AAI R&D Lead, Naval Surface Warfare Center, Dahlgren

Dr. Daniel Suma currently works as an engineer and researcher at Naval Surface Warfare Center, Dahlgren Division within the Autonomous Weapons and Robotics Systems Branch. He specializes in developing machine learning solutions for dynamic, multi-scale environments. Prior to working at Dahlgren, he earned his Bachelors in Chemical Engineering at the University of Notre Dame, Masters in Biomedical Engineering at The University of Minnesota, Twin Cities, and his doctorate in Biomedical Engineering from Carnegie Mellon University. Outside of developing novel methods for both supervised and unsupervised learning, he enjoys designing new methods and metrics to assess algorithm performance and investigate the basic principles underlying deep-learning's effectiveness.



ITEA Overview



COL Rick Bailer, USA Retired, George Washington Chapter Leadership

Rick is a retired U.S. Army officer with 28 years of active-duty military service where he trained tactical units for combat, including an Artillery Battalion Command in Korea before transitioning to the U.S. Army Acquisition Corps. As a Range Commander at U.S. Army Aberdeen Test Center he delivered extensive test and training services within the U.S. DOD and the commercial sector. As the Program Executive Officer (PEO) Special Programs USSOCOM, he led science and engineering organization, executing program management, personnel and labor management, large organization leadership and management, client management, and contract management. During his tenure, results significantly enhanced capabilities to munitions, weapons, mobility platforms, and intelligence product for the USSOCOM, U.S. Army, U.S. Navy, U.S. Air Force, and other government agencies in the national mission areas of counter-terrorism and counter-proliferation of weapons of mass destruction.

Rick Bailer currently consults to the U.S. Department of Defense (DOD) industry partners to whom he provides strategic planning and business development recommendations. Applying a user perspective, he integrates physics, chemistry, modeling and simulation, high performance computing, and collaborative engineering to solve the most difficult military needs, all at the “speed of war”.

Certifications:

Program Management (DOD – [DAWIA] Level III), Test and Evaluation (DOD – [DAWIA] Level III), and Systems Planning, Research Development and Engineering (DOD – [DAWIA] Level III)



Mark Phillips, Chairman of ITEA



AI in Test Ranges/Major Range and Test Facilities Bases



Christopher F. Lynch, Autonomy and Artificial Intelligence Modernization Lead, Test Resource Management Center (TRMC)

Christopher (Chris) F. Lynch, a retired Army Aviator and member of the Acquisition Corps since 2009, has a wealth of experience in military operations. During his tenure at the Test Resource Management Center (TRMC) since 2011, including a significant stint at DTE&A, Chris' work with unmanned systems sparked a deep interest in their potential, particularly in relation to autonomy and artificial intelligence (AI). This interest led him to take on the role of TRMC Autonomy and Artificial Intelligence Modernization team lead in March of 2021.

Since assuming this position, Chris has spearheaded the growth of the "Autonomy & AI Test" team in alignment with the substantial global and Department of Defense adoption of autonomy and AI technologies supporting Human-Machine-Teaming (HMT). He firmly believes in the direct correlation



between advancements in autonomy and AI and enhancing the effectiveness of the Warfighter on the battlefield, thereby safeguarding their lives and the defense of our great nation. Embracing the TRMC-AAI motto, "Robots don't bleed,"

A priority in this role is building and strengthening partnerships, both internal to DoD and external, and thereby accelerating impact to our Warfighters. Chris

diligently supports TRMC's overarching motto: "Testing Wins Wars." His efforts are dedicated to fulfilling TRMC imperatives by ensuring that the Armed Services, both on and off major range facilities, are equipped with the necessary test & evaluation infrastructure, tools, services, and technologies to conduct safe and effective testing of the next generation of autonomy and AI capabilities for the joint warfighter.

AI in T&E



Dr. Karen Haigh, Cognitive Electronic Warfare; AI and ML for Physical Systems, Test Resource Management Center (TRMC)

Dr. Karen Haigh is an expert and consultant in CogEW and embedded Artificial Intelligence (AI). Her focus is on physical systems with limited communications and limited computation resources that must perform under fast hard-real-time requirements. She recently wrote the book “Cognitive Electronic Warfare: An Artificial Intelligence Approach” with Julia Andrusenko. She is a Fellow of the IEEE for contributions to closed-loop control of embedded systems, and a Fellow of AAIA for outstanding achievements in the area of smart homes. Karen has a PhD in Computer Science (AI and Robotics) from Carnegie Mellon University.



Maj Riley Livermore, USAF Futures Flight Commander for the 413th Flight Test Squadron

Maj Riley Livermore is the Futures Flight commander for the 413th Flight Test Squadron and serves as the experimentation lead for the CDAO’s Autonomy, Data, and AI Experimentation (ADAx) Proving Ground at Eglin AFB, FL. Born and raised in Phoenix, Arizona, Riley has both a bachelor’s and master’s degree in Aeronautical Engineering and is a graduate of the US Naval Test Pilot School (Class 158). Riley boasts over a decade of expertise in autonomy and small Unmanned Aerial Systems (UAS) testing, including assignments at both the Air Force Research Laboratories and the Air Force Test Center. In his current capacity, Riley oversees a 11-member team tasked with testing electric vertical takeoff and landing aircraft as well as autonomy and AI-enabled airborne systems.

Dr. Daniel Owens, AEC/ ATEC Support Team, AST Lead



Daniel Ross, T&E Division Head, Naval Surface Warfare Center, Dahlgren

Mr. Daniel Ross is the Test and Evaluation Division Head for the Naval Surface Warfare Center, Dahlgren Division (NSWCDD), Dahlgren, VA. As the T&E Division Head, Mr. Ross is responsible for all test and evaluation activities on the NSWCDD Potomac River Test Range (PRTR), Explosives Experimental Area (EEA) and associated test laboratories. In addition to his role as division head, Mr. Ross is also the Deputy T&E Director for NSWCDD as well as the Executive Committee (EC) member for the Range Commander's Council (RCC).

Mr. Ross has been involved in T&E since beginning his career in 2006. Prior to his selection as division head, Mr. Ross served in various roles within the T&E division, including multiple leadership positions. He has also served as the chair for the Navy's Munition Reaction Evaluation Board (MREB). In addition to his T&E experience, Mr. Ross also completed a detail at Marine Corps Systems Command, Product Manager for Anti-Armor Systems from 2011-2013 where he provided systems engineering and T&E leadership for various projects within the Anti-Armor Systems portfolio.

Mr. Ross holds a Bachelor of Science degree in Mechanical Engineering from Virginia Tech.



**Eric S. Spiegel, SSTM, Head Ranges, Engineering, and Analysis Department
Naval Undersea Warfare Center Division, Newport**

Mr. Spiegel was selected as Senior Science and Technology Manager (SSTM) in May 2017 to provide Navy leadership in Undersea Warfare (USW) Test and Evaluation (T&E) and USW Ranges; and recently to provide Navy Range Enterprise leadership across all aspects of all Navy Ranges. He also serves as Head of the Ranges, Engineering and Analysis Department, the NUWC Newport T&E Director and US Navy International Technical Project Officer for USW Range Technology.

Mr. Spiegel's previous two assignments included the Director of Programs and Strategy for Imaging, Communications and Electronic Warfare for NUWC Newport's USW Electromagnetic Department; and Head of the Customer Advocate, Field Team and Special Projects Department. Prior to these

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assignments Mr. Spigel was selected as the USW Chief Technology Officer's (CTO) Strategy Manager, reporting to the USW CTO (Rear Admiral) and was selected to be the Office of Naval Research-Global (ONR-G) Science Advisor to the Commander US Submarine Forces (Vice Admiral). During this time, he led the development and implementation of strategies to successfully influence naval Science and Technology (S&T) investments in USW future capability needs. Between 2006 and 2010, Mr. Spigel received four major awards: the Superior Civilian Service Award; the Meritorious Civilian Service Award; the NUWC Technical Director's top award (Technical Excellence); and the Science Advisor of the Year Award (peer-nominated) presented by the Chief of Naval Research. He completed the Harvard Senior Executive Fellows Program in 2010. Mr Spigel is a Boston Marathon Qualifier (2023 and 2025).

Prior to 2006, Mr. Spigel was the Head of the Fleet Operational Readiness Division for NUWC Div Newport Torpedo Department. Mr. Spigel's previous 21-year professional career focused on research, development, T&E, and US Navy Fleet readiness programs. This previous experience included technical, management and leadership responsibilities for undersea weapons, undersea defensive systems, and submarine combat control training systems. Included in his previous core experience base are systems engineering; at-sea and Modeling and Simulation (M&S); T&E; independent analysis and assessments; and US Navy Fleet tactical development and training. During his 36-year career, Mr. Spigel has been able to leverage his broad experience base to develop and implement strategies in new areas outside his domain, including the future capabilities of the entire Submarine platform and associated off board systems. His successes are directly attributable to leadership and management skills, team-building, developing results-based approaches and ability to effectively collaborate across organizations and programs. Major awards prior to 2006: Naval Warfare Center Workforce Shaping Award, Naval Warfare Center Innovation Award, NUWC Division Newport Supervisor of Year Award (employee nominated) and a Secretary of Navy Citation.

Mr. Spigel resides in Portsmouth RI, is happily married to Patricia Spigel and has three children, Jack 25, Mary 23 and David 20. He has lived and worked in Newport RI, Charleston SC, Keyport WA, Virginia Beach VA and Washington DC

AI in Cyber Agencies



**Sarah Standard Cybersecurity/Interoperability Technical Director,
Cybersecurity/Interoperability**

Ms. Sarah Standard is a 1988 US Naval Academy graduate and a retired Navy Captain, retiring in 2013. Commissioned as a Supply Officer, she served 5 years of active duty before transitioning to the reserves and after earning her MA in Applied Mathematics from the University of Maryland, College Park, with applications in Numerical Analysis, Operations Research, and Databases, she transitioned to the Information Professional community in 2004. She also has certificates in Enterprise Architecture and Chief Information Officer from the National Defense University. Previous assignments in the reserves include serving as the Reserve N6 with the Space and Naval Warfare Systems Command, as Information Management Cell Lead and then as Knowledge Management Officer with the Commander, Second Fleet (C2F), as Commanding Officer for Communication and Information Systems (CIS) C2F, and as CIS Director for Commander, Third Fleet. In 2010, Sarah returned to active duty and instructed calculus and cybersecurity courses at the US Naval Academy until 2013 and returned as a civilian adjunct through 2014. In 2014 she began working for AVIAN, LLC where she developed and instructed a NAVAIR-specific cyber warfare course for the NAVAIR acquisition workforce, teaching over 3000 in the first year offering the course. In 2016 she transitioned as a cybersecurity SME for The Patuxent Partnership and was subsequently selected to serve as the Cybersecurity/Interoperability Technical Director to the Principal Deputy Director, DASD(DT&E).

Jeff Eyink, Chief Cybersecurity Implementation Division, Department of Defense, Chief Information Officer (DoD, CIO)



Jean Petty, Cyber Resilience Test and Evaluation Coordinator, Department of Homeland Security, Test and Evaluation

Ms. Jean Petty is the Cyber Resilience Test & Evaluation Coordinator within the Test and Evaluation Division of Department of Homeland Security (DHS) Science and Technology. Ms. Petty provides program support and oversight in the area of Cyber Resilience to major DHS acquisition programs and develops policy and guidance related to cyber resilience. Prior to joining the Federal Government, Ms. Petty was a Senior Principal Cybersecurity Engineer in the MITRE Corporation Defense

Systems Engineering department, located in McLean, VA.

Ms. Petty has over 35 years of experience as a technical manager and technical contributor in the areas of cyber resilience, digital engineering, systems engineering, cybersecurity and threat assessment, and test and evaluation (T&E). She has supported major system acquisition programs for the Department of Defense (DoD) and the DHS.



Juán Ulloa, U.S. Army Combat Capabilities Development Command (DEVCOM) Analysis Center (DAC)

Juan Ulloa's lifelong passion for science, mathematics, technology, and soccer was ignited at the age of 5 when he witnessed his father, a television & radio electronic technician for RCA, construct the family's first color television from scratch in Mexico. Juan vividly recalls the vibrant green grass displayed on the screen as his father finished assembling the television in the middle of an international soccer match. Juan went on to graduate from the University of Texas at El Paso, earning a Bachelor of Science (BS) degree in

Chemistry/Mathematics in 1994. In 1996, he furthered his academic pursuits with a Master of Science (MS) equivalent in Chemistry and Environmental Engineering. Driven by his passion for technology, Juan pursued a second MS degree in Computer Science in 2004.

Currently serving as the Technical Assistant to the Chief (TAC) for DEVCOM Analysis Center's (DAC) Cyber Experimentation and Analysis Division, Juan plays a pivotal role in the organization and is fascinated by AI/ML. Primarily functioning as a Cybersecurity Analyst and Computer Scientist, his



responsibilities encompass conducting network data analysis, vulnerability investigations, and engaging in outreach programs and collaborations with academic institutions such as the University of Texas at El Paso, the US Military Academy at West Point, UT Austin, New Mexico State University, and others. Particularly fulfilling for Juan is his collaboration with DAC's cybersecurity interns. Prior to his role at DAC, Juan garnered extensive professional experience in various capacities. He served as a Physics and Chemistry High School Educator, Canutillo High School Boys Varsity Soccer Coach, Environmental Chemist, Environmental Engineer, Website Developer, and Entrepreneur/Business Owner. Juan holds multiple professional certifications, including CISSP, CE|H, CEPT, Texas Educator certification, Soccer Coaching licenses, and WAPT.

In his personal life, Juan cherishes spending time with his wife and two children. He actively participates in his community, coaching youth soccer, and serves as a board member of a local Youth Soccer Club. Juan Ulloa's journey reflects a remarkable fusion of his passions, academic accomplishments, and commitment to both professional and personal endeavors.



MAJ James M. Hall, USA, Joint Interoperability Test Command (JITC) Research Systems Analyst

MAJ James Hall serves as the Command Operations Research Systems Analyst (ORSA) for the Joint Interoperability Test Command stationed at Ft. George-Meade, Maryland. He's worked there since Spring 2023 focusing on workforce and process modernization, test & evaluation mythology, and test analysis.

MAJ James Hall graduated from West Point in 2011 with a bachelor's in mathematics and commissioned into the Army's Military Intelligence Corps. He served his first assignment with 3rd Brigade Combat Team, 2nd Infantry Division at Joint Base Lewis McChord where he served as a battalion Assistant Intelligence Officer, Signals Intelligence Platoon Leader, and Executive Officer.

In 2015, MAJ Hall started his second assignment with 3rd Brigade Combat team, 1st Cavalry Division at Ft. Cavazos where he served as the Reconnaissance Squadron Intelligence Officer, Assistant Brigade Intelligence Officer, and the Military Intelligence Company Commander. He served as the Military

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Intelligence Career Manager at Fort Knox supporting military intelligence Lieutenants and Captains worldwide.

In 2022, MAJ Hall completed his masters in statistics from University of California Berkeley where he focused on causal inference and machine learning.

Dr. Bryan Kolaczowski, Principal Member of the Technical Staff, Sandia National Lab

Bryan Kolaczowski received his PhD in computational science from University of Oregon in 2006. He was active in academic research as a postdoctoral research scientist (at UC Berkeley and Dartmouth College) and research faculty (at University of Florida), where he developed probabilistic modeling and machine learning methods to investigate the evolution of molecular function, the genetic basis for evolutionary changes in natural populations and the impacts of microbial community structure on health and disease. Dr Kolaczowski has been funded as a PI on research grants from National Science Foundation and National Institutes of Health. Before leaving academic research, Dr Kolaczowski was instrumental in developing research and teaching methodologies to integrate artificial intelligence (AI) and machine learning (ML) across academic disciplines as part of University of Florida's AI Initiative. Dr Kolaczowski joined the R&D technical staff at Sandia National Laboratories in 2022 and has worked on a variety of projects across the AI/ML development-operations lifecycle. Dr Kolaczowski's recent work has increasingly focused on understanding issues related to AI/ML performance and security.