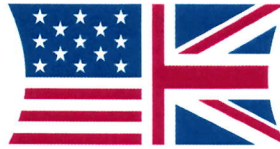


UNITED STATES OF AMERICA
DEPARTMENT OF DEFENSE



US-UK S&T



STOCKTAKE



UNITED KINGDOM
MINISTRY OF DEFENCE

August 31, 2023

Subject: 2023 U.S. – UK Science and Technology (S&T) Cooperation Award Communique

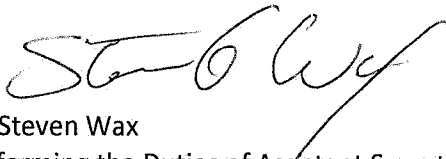
We are pleased to announce the winners of the 2023 U.S. – UK S&T cooperation awards. The nominations are a testament to the broad range of scientific and technical accomplishments found throughout our bilateral cooperative activities. This year, we awarded four Project Team awards, five Individual Achievement awards, and three Lifetime Achievement awards:

- The **Bermuda Triangle Experiment team** receives a Project Team award in recognition of its development, testing, and demonstration of novel advanced radio frequency capabilities in a relevant real-world environment. These capabilities will ensure the supremacy of Allied operations on future 21st-century battlefields. The team demonstrated world-class technical vision, scientific acumen, and collaboration skills.
- The **Autonomy and Artificial Intelligence (AI) Working Group (WG)** receives a Project Team award in recognition of its demonstration of a joint Autonomy and AI toolbox for the first time in military exercises. The outcomes will support combined and joint force access to the best, trustworthy, AI and Autonomy in operationally-relevant scenarios. The team's work is also in direct support of high-priority national defense objectives.
- The **System of Systems Synthetic Environment (SE) Development team** receives a Project Team award in recognition of its creation of a SE architecture for high-fidelity test and evaluation (T&E). The team's work enabled the United States and United Kingdom to understand the impact of the Electro Magnetic Environment (EME) on air capabilities quickly and cost-effectively. This capability will revolutionize the approach to EME T&E across both nations.
- The **Submarine Optical Communications team** receives a Project Team award in recognition of the team's development of nodes for two-way communications. The team exhibited burden sharing, defined use cases and concepts of operation, and shared performance modelling results. This capability enabled command and control to submerged platforms. The team's collaboration led to the United Kingdom gaining its first Air-Water optical interface node. This will form part of a demonstration of U.S.-to-UK airborne-to-submerged communications.
- **Dr. Fiona Butcher** receives an Individual Achievement Award in recognition of her dedicated service to U.S. – UK Defense S&T cooperation during her time as UK Exchange Officer to the Office of the Under Secretary of Defense for Research and Engineering at the U.S. Department of Defense. Her technical knowledge and guidance supported the U.S. – UK S&T Stocktake, the Minerva Initiative, and multiple U.S. – UK engagements.
- **Dr. Terrence D'Onofrio** and **Dr. Josh Richards** receive Individual Achievement Awards in recognition of their collaborative technical achievement in a next generation method for system-level assurance of chemical protection. They overcame critical S&T gaps in chemical protection, generated operationally significant data for both nations, and motivated a diverse team to complete the transition of the first internationally accredited chemical defense research and test capability. This spearheaded opportunities for burden sharing and interoperability.

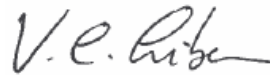
- **Mr. Sam Trigger** receives an Individual Achievement Award in recognition of his role in increasing U.S. – UK collaboration across S&T at the Defence Science and Technology Laboratory (Dstl). Mr. Trigger worked at the Counter Improvised Threat Collaboration Centre. He initiated new collaborative networks between the UK Ministry of Defence S&T at Dstl and the United States. He also arranged the direct engagement of the U.S Federal Bureau of Investigation (FBI), U.S. DoD, U.S. National Counterterrorism Center (NCTC) and U.S. Special Operations Command (SOCOM); His contributions benefitted force protection, counterterrorism and intelligence operations.
- **Mr. Zachary White** receives an Individual Achievement Award in recognition of his contributions to the development of high-speed systems. He brought together the United States Air Force Research Laboratory and Dstl on the development of high-speed systems. Mr. White also pioneered a digital design approach to create integrated high-speed system designs that are over 10 times faster than previous fragmented approaches. Mr. White’s efforts revolutionized the approach to high-mach and hypersonic vehicle designs and helped shape the technology investment strategy that will provide leap-ahead capability to the warfighter.
- **Dr. Martin Hubbard** receives a Lifetime Achievement award in recognition of his outstanding leadership and immense contribution to U.S. – UK research cooperation in Radio Frequency Directed Energy Weapons, Non-Lethal Weapons and Joint WG 36 over a period of 40 years, and his appointment in 2010 as a Fellow of the Directed Energy Professional Society.
- **Ms. Pamela Kinnebrew** receives a Lifetime Achievement award in recognition of her leadership for over three decades of continuous collaboration between the U.S. Army and United Kingdom. Her leadership fostered countless knowledge transitions in force protection engineering and homeland defense S&T. Her trusted status across both governments protected civilians at the 2012 London Olympics and soldiers deployed globally.
- **Mr. John Rowe** receives a Lifetime Achievement award in recognition of his leadership, encouragement, support, and wisdom over many years that enabled the U.S. – UK Armor Technical WG to exchange information and to undertake mutual development of armor for fighting vehicles. His work saved lives and reduced injury for U.S. and UK service personnel in several theatres of combat.

We, along with our Stocktake Deputies, agree that the Front Line Operational Analyst Training Exercise team, the Laser Probabilistic Risk Assessment team, and the Plasma-Filled Rod-Pinch Diode Radiographic X-ray Source team were also strong applicants in their fields. Though these teams did not win an award this year, we commend them on their work and recognize that they are in the early stages of delivering tangible outcomes. We therefore encourage them to reapply for an award in future years.

Please reach out with any questions or concerns to our Secretariat members; Ms. Gemma Smith from the United Kingdom at gemma.smith140@mod.gov.uk, and Ms. Isabella Kopij from the United States at isabella.s.kopij.ctr@mail.mil. The Stocktake Secretariat will contact the award winners separately to discuss details regarding each nation’s award ceremony. Again, congratulations to the award winners.



Dr. Steven Wax
Performing the Duties of Assistant Secretary of Defense (ASD) for S&T, Office of the ASD(S&T),
Office of the Under Secretary of Defense for
Research and Engineering



Professor Vernon Gibson
Chief Scientific Adviser
UK MOD