Dixie Crow Special Topic Meeting
Friday — 16 February 2024

Time: 0800-1200
Location: MERC Auditorium
135 Osigian Blvd, Warner Robins, GA
Or via Teams (Please open document to access link)
Link: Click here to join the meeting
   Or call in (audio only)
+1 571-508-5990,,723655213#   United States, Non Geographic
Phone Conference ID: 723 655 213#

"Integrated Air Defense Systems (IADS) – The Driving Force for EW Cooperation"

The Dixie Crow Chapter, Peraton and MERC are happy to provide this venue (in person or via Teams) for interested parties to gather to attend this complimentary AOC Dixie Crow Chapter Special Topic Event.

Our 2023 Training covered Collaborative and Cooperative EW and briefly alluded to the driving force for EW cooperation: the Integrated Air Defense System (IADS). This year we will look at this problem space from the IADS perspective. What does the IADS do? How does it increase the effectiveness of our adversaries? What are some approaches from an EW perspective to reduce this effectiveness? Spoiler alert! This leads us right back to cooperation in the EW domain with our wingman, other services, and coalition partners.

Presenters: Kevin Stilwell & Bryan Johnson

   Kevin Stilwell has spent the last 41 years working in the Electronic Warfare (EW) problem domain. For most of those years he has worked in and alongside the Electronic Warfare Avionics Integration Support Facility (EWAISF) at Robins AFB.   This experience afforded him the roles of systems and software engineer on several Air Force EW systems such as the ALQ-99, ALE-47, ALR-69, ALQ-172, and most currently, the ALQ-161. He was also a principal architect for three (3) EW systems' mission data software suites. Additionally, he has architected development programs for two radar simulators and one radar emulator. Currently, Mr. Stilwell's role is as a technical advisor to the EWAISF's Test and Evaluation (T&E) integrated product team (IPT).   He assists the T&E IPT in the development, assessment, and utilization of their new high-fidelity closed-loop radar models and associated integrated air defense system (IADS) emulations.

   Mr. Stilwell is a graduate of the Georgia Institute of Technology with a Batchelor's degree in electrical engineering. He also received a master's degree in software engineering from Mercer University. He is currently employed as a Systems Engineer Subject Matter Expert (SME) at Peraton.

   Bryan Johnson has spent the majority of his 34-year career analyzing foreign Integrated Air Defense Systems (IADS) and supporting the test and evaluation of EW systems designed to defeat them. He has a detailed understanding of IADS components including Command, Control, Communications, and Computer (C4) systems; Radars; Radar Processing Centers; Communications and Data Links; Electronic Warfare Systems; and Passive Surveillance Systems. He supports efforts across the Intelligence Community, test ranges, and hardware in the loop laboratories. He has reverse-engineered foreign weapon systems, developed high fidelity models to accurately represent system performance, integrated them with other models to represent a full IADS, and conducted algorithm analysis. He has integrated threat models with range hardware to support the test and evaluation of EW systems.

   Mr. Johnson is a graduate of Auburn University with a bachelor's degree in electrical engineering. He currently serves as the Chief Executive Officer of J12 Solutions - an Employee-Owned engineering services and technology solutions company committed to providing our customers and business partners with exceptional support, deep expertise, and reliable results.