



Defense Strategies Institute professional educational forum:

3rd Annual Electromagnetic Spectrum Operations Summit

~ Delivering EW and Cyber Capabilities for Multi-Domain Operations ~



June 20-21, 2017

Mary Gates Learning Center | Alexandria, VA

Program Design & Goal:	<p>This educational summit allows US military commands, government agencies, academia, and industry leaders the chance to have an open discussion about the current and future needs that exist for government operations occurring in the electromagnetic spectrum. The objective of this conference is to push forward in progress and thought in advancing the issues and challenges that government faces in the ever-growing realm of the electromagnetic spectrum. This conference aims to bring together top leaders and thinkers to ensure the USA remains dominant and competitive in all aspects of EMS operations.</p>
Operating Guidelines:	<p>DSI's Symposium directly supports DoD priorities by providing a conduit for officials to efficiently reach audiences outside of their respective offices that directly impact their department's mission success, at no charge to the government, and in an efficient expenditure of time.</p> <p>DSI's Symposium will provide a forum to address and improve internal and external initiatives, meet with and hear from partner organizations, disseminate vital capability requirements to industry, increase visibility within the larger community, and generally support their mission.* *The Summit is open and complimentary to all DoD and Federal employees and is considered an educational and training forum.</p> <p>(Industry and academia members are charged a fee of attendance)</p> <p>Summit is CLOSED TO PRESS / NO RECORDINGS</p> <p>This event is unclassified, NOFORN</p>
General Target Audience:	<p>This educational summit will support solution providers, academia, and government officials that are actively searching for meaningful solutions to advance the government's ability to control spectrum more efficiently and conduct operations more freely. All attendees should have an interest in strengthening America's advantage in the electromagnetic spectrum.</p>
Specific topics to be discussed include:	<p>Maximizing access and enhancing battlefield effectiveness within the electromagnetic spectrum</p> <p>Understanding what the convergence of EW and Cyber means for the force</p> <p>The importance of becoming more spectrally efficient, flexible, and adaptable in congested and contested electromagnetic environments</p> <p>Operational concepts and technologies to advance US dominance of the electromagnetic spectrum</p> <p>Understanding the developing challenges of creating spectrum-dependent technology</p> <p>Current activities towards synchronizing cyberspace operations, EQ, and Spectrum Management</p> <p>Utilizing the spectrum of available technologies to protect and defend electronic attacks and countermeasures</p> <p>Understanding the emerging significance of Cognitive Electronic Warfare in producing countermeasures</p> <p>How to address the operational problems of EW across multi-domains</p>

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Tuesday June 20th

8:00 – 8:45	Registration and Light Breakfast Reception Open
8:45 – 9:00	Moderator Opening Remarks COL Joe Dupont, USA (Ret) Director of Operations, Advanced Technology Solutions Division (ATS)-Aberdeen Scientific Research Corporation
9:00 – 9:40	Attaining and Maintaining Electromagnetic Spectrum Superiority through EMS Control -Viewing EM spectrum as a maneuver space, and the convergence of EW and spectrum management -Increasing and advocating for joint electronic warfare capabilities to support the warfighter -Assisting Combatant Commands, Services, and Agencies across multi-domains Brig Gen Edward Sauley III, USAF (Confirmed) Joint Electromagnetic Spectrum Operations USSTRATCOM
9:40 – 10:20	Convergence of EW and Cyber Capabilities at the US Army in Support of Operational Effectiveness -Advancing CEMA Capabilities for the Expeditionary Force -Delivering EW and cyber capabilities through REF and RCO -Current activities towards synchronizing cyberspace operations, EW, and Spectrum Management BG(P) Patricia Frost, USA (Tentative) Director, Cyber Security Directorate HQDA G-3/5/7
10:20 – 10:50	Networking Break
10:50 – 11:30	Securing Access for Space-Based Positioning, Navigation, and Timing -Collection of GPS-related information to support the operations of the National Executive Committee -Information sharing, coordination, and issue resolution of space-based PNT programs Harold Martin (Confirmed) Director, National Coordination Office for Space-Based Positioning, Navigation, and Timing Department of Commerce
11:30 – 12:10	Identifying and Providing Innovative Cost Effective EW Solutions to the Warfighter -Providing a bridge between warfighters and the technical community -Enhancing the Navy's special missions, strategic missions and electronic warfare with innovative technical solutions RDML Tom Druggan, USN (Confirmed) Commander, Naval Surface Warfare Center US Navy
12:10 – 12:50	Expanding and Identifying Spectrum Usage to Increase America's Competitiveness -Increasing spectrum sharing and industry/government collaboration as tools for spectrum access -Developing policy regarding broadband internet access and adoption in America as well as expanding the use of spectrum by all users -Managing the federal use of spectrum and identifying future commercial spectrum Peter Tenhula (Confirmed) Deputy Associate Administrator for Spectrum Management, Office of Spectrum Management

	NTIA
12:50 – 1:40	Networking Lunch
1:40 – 2:20	<p>Delivering Capabilities to the USAF to Dominate the Electromagnetic Spectrum</p> <ul style="list-style-type: none"> -Acquisition perspective towards the role of electronic countermeasures/Jammers in Agile Combat Support -Understanding current challenges facing acquisition reform in the dynamic DoD environment <p>Karen Brigance (Confirmed) Chief Engineer, Electronic Warfare & Avionics Division Agile Combat Support Directorate, Air Force Life Cycle Management Center, Air Force Material Command</p>
2:20 – 3:00	<p>CERDEC’s Current and Future Objectives in Spectrum Management</p> <ul style="list-style-type: none"> -The inability to efficiently plan and manage spectrum resources due to lack of interoperability between US and Coalition spectrum management software tools -Addressing the technical aspects of architecting the exchange data and implementing the data exchange between the US and South Korea <p>Bryan May (Confirmed) Branch Chief, Spectrum Analysis & Frequency Management Space and Terrestrial Communications Directorate US Army-CERDEC</p>
3:00 – 3:20	Networking Break
3:20 – 4:00	<p>Providing a Combined Operational Effect through Rapid EW and Cyber Capability Delivery</p> <ul style="list-style-type: none"> - Expediting critical capabilities to field combatant commanders’ requirements in regards to EW and Cyber capabilities - Perspective towards enabling the Army to experiment, evolve, and deliver technologies in real time to address counter threats <p>Douglas Wiltsie (Confirmed) Director, Rapid Capabilities Office US Army</p>
4:00 – 4:40	<p>Managing the Use of Radio Spectrum for Efficient Extent and Benefit to the Public</p> <ul style="list-style-type: none"> -Coordinate the development of departmental positions on PNT and spectrum policy -Protecting from harmful radio frequency interference and operational degradation <p>Karen Van Dyke (Confirmed) Director, Office of Positioning, Navigation, and Timing and Spectrum Management Department of Transportation, ASD (R&T)</p>
4:40 – 5:20	<p>Update on DoD Electronic Warfare Executive Committee Initiatives</p> <ul style="list-style-type: none"> -Understanding the current structure and priorities of the EW EXCOM -Acquisition perspective towards seeking new technologies and tactical opportunities <p>Willie McCallister (Confirmed) Electronic Warfare USD (AT&L)</p>
<u>Wednesday June 21st</u>	
8:00 – 8:45	Registration and Light Breakfast Reception Open

8:45 – 9:00	<p>Moderator Opening Remarks</p> <p>COL Joe Dupont, USA (Ret) Director of Operations, Advanced Technology Solutions Division (ATS)-Aberdeen Scientific Research Corporation</p>
9:00 – 9:40	<p>Directing and Conducting Integrated EW, Information and Cyberspace Operations</p> <ul style="list-style-type: none"> -Utilizing cyberspace to dominate the information environment throughout interdependencies -Understanding the relationship between tactical cyber and electronic warfare -Cross-leavening Cyber and EW training skills to further strengthen the warfighter <p>BG Joseph McGee, USA (Confirmed) Deputy Commander, Operations US Army Cyber Command</p>
9:40 – 10:20	<p>Design, Development, and Acquisition of US Signals Intelligence Space Systems</p> <ul style="list-style-type: none"> -Building and deploying NRO signals intelligence satellite systems to collect communication, electronic, and foreign instrumentation signals intelligence -Providing global communication, navigation, early warning of missile launches, signals intelligence and real-time imagery <p>Tina Harrington (Confirmed) Director, Signals Intelligence Systems Acquisition Directorate National Reconnaissance Office</p>
10:20 – 11:00	<p>Networking Break</p>
11:00 – 11:40	<p>Capabilities to Maneuver Effectively in the Electromagnetic Spectrum</p> <ul style="list-style-type: none"> -Gaining and attaining access to spectrum for friendly forces and denying spectrum to our adversaries -Preventing the adversary from leveraging the EM domain to conduct operations across multi-domains <p>Ellen Purdy (Confirmed) Director, Emerging Capabilities & Prototyping Initiative & Analysis Office ASD (R&E)</p>
11:40 – 12:20	<p>The Spectrum Collaboration Challenge</p> <ul style="list-style-type: none"> -Collaborative machine-learning competition aimed at overcoming scarcity in the radio frequency spectrum -Competitors will reimagine a new, more efficient wireless paradigm in which radio networks autonomously collaborate to determine how the spectrum should be used <p>Paul Tilghman (Confirmed) Program Manager, Microsystems Technology Office DARPA</p>
12:20 – 1:20	<p>Networking Lunch</p>

1:20 – 2:00	<p>Operating Effectively Across the Electromagnetic Spectrum and Cyber Domain</p> <ul style="list-style-type: none"> -Status report of EMS as critical electromagnetic maneuver warfare -Convergence of EMS and Cyber in support of Naval activities -Understanding the usage of kinetic and non-kinetic integrated fires <p>Bill Flynn (Confirmed) Director, Integrated Fires OPNAV N2/N6</p>
2:00 – 2:40	<p>Enabling the DoD Electromagnetic Spectrum Strategy by Increasing System Survivability</p> <ul style="list-style-type: none"> -Helping PMs consider the key system attributes early enough in the requirements process to drive design decisions -Identifying key system attributes for electromagnetic spectrum dependent systems -Introducing EMS Survivability component for System Survivability Key Performance Parameters <p>Yuriy Posherstnik (Confirmed) Team Lead, Strategic Initiatives Regulatory and Strategic Initiatives Branch Defense Spectrum Organization DISA</p>
2:40 – 3:20	<p>Enabling Mission Assurance through EW Technology Development and Transition</p> <ul style="list-style-type: none"> -Understanding the pace and future of EW technology proliferation -Looking ahead in adaptation of real-time EW Design -Exploring the concepts of EW capability development <p>Dr. Michael Nowak (Confirmed) Technical Advisor, Spectrum Warfare Division AFRL, Sensors Directorate</p>
3:20	<p>End of Symposium</p>

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For more information visit ew.dsigroup.org

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