



# AUTOMATED ISR & BATTLE MANAGEMENT SYMPOSIUM

February 12-13, 2019

Mary M. Gates Learning Center, Alexandria, VA



**ENHANCING ISR CAPABILITIES TO WIN IN A MULTI DOMAIN ENVIRONMENT**

February 12, 2019

8:00 – 8:45	<b>Registration and Light Breakfast Reception Open</b>
8:45 – 9:00	<b>Moderator Opening Remarks</b> <b>Maj Gen Darryl Burke, USAF (ret.) (Confirmed)</b> Vice President, Global ISR Programs, ViaSat Inc. Former Deputy Commander, JFCC-IS
9:00 – 9:45	<b>Driving Next Generation ISR Dominance at the US Air Force</b> <ul style="list-style-type: none"><li>- Shifting towards human machine teaming approach in a peer threat environment</li><li>- Opportunities to insert disruptive technologies in the ISR enterprise</li><li>- Enabling machine intelligence to support rapid automation of ISR data</li></ul> <b>Mr. Kenneth Bray, SES (Confirmed)</b> Acting Assistant Deputy Chief of Staff for ISR HQAF
9:45 – 10:30	<b>Exploiting Automation at the NGA</b> <ul style="list-style-type: none"><li>- Rapidly distilling complex data into knowledge with automation</li><li>- Utilizing automation to optimize analyst workflow</li><li>- Combining AI and automation to scale the impact, increase the speed, and enrich the knowledge conveyed to others</li></ul> <b>Ms. Jennifer Schnarre (Invited)</b> Associate Director for Capabilities NGA
10:30 – 11:00	<b>Networking Break &amp; Exhibits</b>
11:00 – 11:45	<b>Utilizing Advances in ISR to Enhance Warfighter Capabilities Throughout the CENTCOM AOR</b> <ul style="list-style-type: none"><li>- Advantages of automated ISR against non-state threats</li><li>- Developing multi-domain ISR capabilities to enable regional security and stability</li><li>- Leveraging ISR to increase soldier readiness in the CENTCOM AOR</li></ul> <b>BG Philip Clark, USA (Confirmed)</b> DJ2O United States Central Command
11:45 – 12:30	<b>Streamlining Air Force Combat Management</b> <ul style="list-style-type: none"><li>- Benefits of Agile development on Air Force ISR platforms</li><li>- Utilizing automation to streamline data reviewing</li><li>- Integrating automated systems to improve battle management across the Air Force</li></ul> <b>Mr. Steven D. Wert, SES (Confirmed)</b> Program Executive Officer Digital AFLCMC
12:30 – 1:30	<b>Networking Lunch &amp; Exhibits</b>
1:30 – 2:15	<b>Mapping the Multi-Domain Megacity</b> <ul style="list-style-type: none"><li>- Developing the 3-D urban map for future battlefields</li><li>- Integrating next-generation autonomous networked sensor platforms to increase situational awareness</li><li>- Providing real-time immediate georegistration to the warfighter</li></ul> <b>Dr. Robert E. Davis (Confirmed)</b> Senior Scientific Technical Manager and Chief Scientist

	Geospatial Research and Engineering, ERDC
2:15 – 3:00	<p><b>Using Open Architecture and Deep Learning to Enhance the Military Decision-Making Process</b></p> <ul style="list-style-type: none"> <li>- Status report on Artificial Intelligence Discovery and Exploitation (AIDE)</li> <li>- How will OA DCGS allow for more rapid and efficient adoption of future ISR capabilities?</li> </ul> <p><b>Col. Timothy J. Lawrence, USAF (Confirmed)</b>  Director, Information Directorate  Commander Detachment 4  Air Force Research Laboratory Rome</p>
3:00 – 3:30	<b>Networking Break &amp; Exhibits</b>
3:30 – 4:15	<p><b>Modernizing the Army’s Aerial ISR Fleet</b></p> <ul style="list-style-type: none"> <li>- Ensuring ISR platforms are prepared for future threats</li> <li>- Providing tactically relevant aerial ISR that meets the current and future warfighter needs</li> <li>- Supporting the warfighter with actionable intelligence at the right place and right time</li> </ul> <p><b>Mr. Chris Keller (Tentative)</b>  Project Manager  PM Sensors-Aerial Intelligence  PEO IEW&amp;S</p>
4:15 – 5:00	<p><b>Applying Machine Learning to Imagery Analysis for Rapid Exploitation</b></p> <ul style="list-style-type: none"> <li>- How the Computer on Watch Program accelerates the process of analyzing imagery</li> <li>- Enabling analysts to seamlessly interact with the system</li> <li>- Expected impact of improved machine learning on future ISR platforms</li> </ul> <p><b>Mr. Arjun Majumdar (Confirmed)</b>  Technical Staff  MIT Lincoln Labs</p>
<b><u>February 13, 2019</u></b>	
8:15 – 8:45	<b>Registration and Light Breakfast Reception Open</b>
8:45 – 9:00	<p><b>Moderator Opening Remarks</b></p> <p><b>Maj Gen Darryl Burke, USAF (ret.) (Confirmed)</b>  Vice President, Global ISR Programs, ViaSat Inc.  Former Deputy Commander, JFCC-IS</p>
9:00 – 9:45	<p><b>Utilizing the Machine-Assisted Analysis Rapid-Repository System to Equip Analysts and Warfighters for Multi-Domain Warfare</b></p> <ul style="list-style-type: none"> <li>- Ways in which MARS will create a military intelligence environment for the warfighter</li> <li>- How does MARS help transform the environment in which all foundational military intelligence exists?</li> <li>- Implementing MARS to modernize ISR</li> </ul> <p><b>Mr. Terry Busch (Confirmed)</b>  MARS Program Director  Defense Intelligence Agency</p>
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9:45 – 10:30	<p><b>Targeting Next</b> - Future direction of Air Force targeting</p> <p><b>Col. Jonathan C. Rice USAF (Confirmed)</b> Commander 363<sup>rd</sup> ISR Wing</p>
10:30 - 11:00	<p><b>Platinum Sponsor- SAP NS2</b></p> <p><b>Brigadier General Scott Bethel, USAF (Ret.)</b></p>
11:00 – 11:30	<p><b>Networking Break &amp; Exhibits</b></p>
11:30 – 12:45	<p><b>Panel Session- Developing trustworthy Human Machine teaming processes to improve the efficiency of human intelligence analysts</b></p> <p>This panel discussion will address the developments in technology that will create trust in automated processes during the PED process. This trust in machines to successfully complete their mission without human supervision will free up time for human analysts to complete jobs that require human intelligence:</p> <p><b>Ms. Danielle Tarraf (Moderator)</b> – RAND Corporation (Invited)  <b>LTG John “Jeff” Kimmons (ret.)</b> - Senior Vice President, Booz Allen Hamilton, Former Director of the Intelligence Staff for the Office of the Director of National Intelligence (Confirmed)  <b>Dr. Jiangying Zhou</b> – DARPA (Confirmed)  <b>Mr. Harry Petrey</b> - Senior Advisor / Chief Data Officer, US Department of State (Confirmed)</p>
12:45 – 1:30	<p><b>Networking Lunch &amp; Exhibits</b></p>
1:30 – 2:15	<p><b>Utilizing Next Gen ISR for Navy Expeditionary Forces</b></p> <ul style="list-style-type: none"> <li>- Delivering flexible, capable and ready intel to maritime expeditionary forces</li> <li>- Utilizing automation to streamline data reviewing</li> <li>- Integrating automated systems to improve battle management</li> </ul> <p><b>CDR Amanda Borngen, USN (Invited)</b> Commanding Officer Navy Expeditionary Intelligence Command</p>
2:15 – 3:00	<p><b>Applying Automated ISR to Support Future MAGTF Operations</b></p> <ul style="list-style-type: none"> <li>- Overview of current Marine Corps ISR strategy for incorporation of future technologies</li> <li>- Thoughts on how future ISR interconnectivity will improve Marines adaptability</li> <li>- How will advances in ISR technology help the marines fight against a hybrid threat?</li> </ul> <p><b>Mr. Thomas Sikora (Invited)</b> Division Head, C4ISR Marine Corps Operational Test &amp; Evaluation Activity</p>
3:00 – 3:15	<p><b>Networking Break &amp; Exhibits</b></p>
3:15 – 4:00	<p><b>Advantages that Automated ISR and Machine Learning Provide to the IC</b></p> <ul style="list-style-type: none"> <li>- Utilizing automation and machine learning to reduce the work load of intelligence professionals</li> <li>- Benefits that automated ISR delivers in multi-domain operation</li> <li>- Thoughts on the future Army use of automation and machine learning to improve ISR and C2 capabilities</li> </ul> <p><b>MG Gary W. Johnston, USA (Confirmed)</b> Commanding General United States Army Intelligence and Security Command</p>
4:00	<p style="text-align: center;"><b>End of Symposium</b> www.asdevents.com - www.asdevents.com/event.asp?id=19145</p>