

5th Annual Cyber Electromagnetic Activity (CEMA)



ASSOCIATION
OF OLD CROWS

8-10 OCTOBER 2019

Aberdeen Proving Ground, MD

DRAFT Agenda

(as of 16 September, subject to change)

**On the Road to Army of 2028 –
Delivering Integrated EW, SIGINT and Cyber at the Tactical Echelon**
Sessions will be held at the classified levels up to TS/SCI releasable to Five Eyes.

Tuesday, October 8

APG C4ISR Campus, Myer Auditorium, Bldg 6000

- 0700 – 0800 **Continental Breakfast and Registration in The Raven’s Networking Tent**
- 0800 – 0810 **Posting of the Colors, Maryland National Guard, Free State Challenge Academy
Welcome, Administrative Briefing & Conference Preview
Mr. Giorgio Bertoli & Mr. Rod Knecht, Conference Co-Chairmen**
- 0810 – 0830 **Major General Mitchell L. Kilgo, Commanding General, U.S. Army Communications-Electronics
Command Senior Commander, Aberdeen Proving Ground
*Opening Remarks***
- 0830 – 0900 **Mr. Muddy Watters, AOC President
*Welcome***
- 0900 – 0930 **Brigadier General Robert Collins, PEO, Intelligence, Electronic Warfare & Sensors (IEW&S)
*CEMA 2019***
- 0930 – 1000 **Brigadier General Matthew Easley, Director of Army Futures Command and AI Task Force for
U.S. Army
*TBD***
- 1000 – 1040 **Break in the Raven’s Networking Tent**
- 1040 – 1120 **Lieutenant General Stephen Fogarty, Commanding General, Army Cyber Command
*Keynote Address***
- 1120 – 1200 **TBD**
- 1200 – 1300 **Lunch in the Raven’s Networking Tent**
- 1300 – 1310 **Opening Remarks & Security Briefing
S & T, Session Chair: Mr William Taylor, CCDC C5ISR**

- 1310 – 1330 **Mr. Steve Govea, Motorola Solutions Inc., Applied Technology**
Applications of AI and ML to SIGINT and EW
- 1330 – 1350 **Mr. Mark Farwell, CSISR Center, Intelligence and Information Warfare Directorate**
Mr. Metin Ahiskali, CCDC CSISR Center
So... You Want to do [Tactical] Cyber
- 1350 – 1410 **Dr. Krapels, SES, Director, Sensors and Electron Devices Directorate Combat Capabilities Development Command, U.S. Army Research Laboratory**
Distributed RF Sensing for Future Multi Domain Operations
- 1410 – 1430 **Mr. Jerry Harper**
Cyber SU Update
- 1430 – 1450 **Mr. Metin Ahiskali, CCDC CSISR Center**
Identification of Encrypted Network Traffic using Machine Learning
- 1450 – 1530 **Break in the Raven's Networking Tent**
- 1530 – 1550 **Mr. Keith Ballantyne, Sechan Electronics, Inc.**
Mr. Ash Law, Sechan Electronics, Inc.
Advancing modular commodity compute power in integrated CEMA operations
- 1550 – 1610 **Mr. Erik Lentz, SRC**
Mr. Roberto Rey-de-Castro, SRC
Training of Deep Neural Networks for Threat Detection
- 1610 – 1630 **Mr. Wesley Wang, CCDC Armaments Center**
Mr. Metin Ahiskali, CCDC CSISR Center
FY19 Update to Disruptive Cyber and Electronic Warfare Rounds
- 1630 – 1650 **Mr. Philip Trainor, ISG Keysight, Applications and Security**
Techniques for Deceptive Signals Generation
- 1650 – 1710 **TBD, EWAR Research Group Department of Electrical and Computer Engineering**
Royal Military College of Canada
Understanding Digital Radio Frequency Memory Jammer Performance in Countermeasure Design
- 1710 – 1715 Session Wrap Up
- 1730 – 2030 **Networking Reception at Waters Edge Event Center**
4687 Millennium Drive, Belcamp, MD 21017

Wednesday, October 9

APG C4ISR Campus, Myer Auditorium, Bldg 6000

- 0715 - 0800 **Continental Breakfast and Registration in The Raven's Networking Tent**
- 0800 – 0810 **Opening Remarks and Conference Update**
Mr. Giorgio Bertoli and Mr. Rod Knecht, Conference Co-Chairmen

- 0810 – 0850 **Mr. Adam Nucci, Deputy Director, U.S. Army HQDA G-3/5/7 Cyber, Electronic Warfare, Information**
Keynote Address
- 0850 – 0930 **Mr. Patrick J. O’Neill, Director, C5ISR Center**
C5ISR briefing
- 0930 – 1000 **Break in the Raven’s Networking Tent**
- 1000 – 1100 **The Honorable Dr. Bruce D. Jette - Assistant Secretary of the Army for Acquisition, Logistics and Technology**
Keynote Address
- 1100 – 1130 **Colonel Kevin Finch, PEO IEWS**
On the Road to 2028... a Campaign of Learning
- 1130 – 1140 **Security Briefing and Session Remarks**
S & T/Exercises & Experimentation, Session Chair: Mr. William Taylor, CCDC C5ISR
- 1140 – 1200 **Colonel Eric Aslakson, Cyber Center of Excellence**
Dr. Richard Wittstruck, C5ISR Center
Cyber Blitz 19 Initial Insights in Support of MDO 2028
- 1200 – 1220 **Captain Christopher Packard, 1st Cavalry Division, CEMA, US Army, Fort Hood**
Integration of Organic Electronic Warfare Platforms within an Armored Brigade Combat Team
- 1220 – 1320 **Lunch in the Raven’s Networking Tent**
- 1320 – 1350 **Major General Neil Hersey, Commanding General, Cyber Center of Excellence and Fort Gordon**
Keynote Address
- 1350 – 1420 **Major General Joel K. Tyler, Commanding General, U.S. Army Test and Evaluation Command**
Keynote Address
- 1420 – 1440 **Mr. Brian LaRocca, US Army-CCDC-C5ISR Center-I2WD-EA&R**
Training Artificial Neural Networks for Radio Direction Finding
- Session becomes TS/SCI REL FVEYS**
- 1440 – 1450 **Opening Remarks & Security Briefing**
Session Chair: Fran Orzech, PM EW&C
- 1450 – 1510 **Mr. Chul OH, I2WD**
Intercepting Wideband Modern Communications from Airborne Platforms
- 1510 – 1530 **Mr. Greg Kraus, SIGINT/QRC, QRC Branch**
Mr. Mark Schiedner, SIGINT/QRC, QRC Branch
Enabling Army SIGINT via collaborative tactical field exercise
- 1530 – 1550 **Mr. Jon Cichowicz, IDS International Government Services**
Addressing Short and Long Term Deficiencies in CEMA Cell Capacity
- 1550 – 1610 **Break in the Raven’s Networking Tent**

Session becomes TS/SCI NO FORN

- 1610 – 1630 **Mr. Sean O’Hara, SRC**
Deployment of Multi-Function RF (EA, ES, CEMA, and NAVWAR) for the CUxS Fight
- 1630 – 1650 **Ms. Kristen Pickelsimer, PM SAI**
Light Saber Program Update
- 1650 - 1710 **SSG Bret McCasKill, D Co; 14th BEB 2-2 SBCT**
From Strategic to Tactical: Following the Army’s First EW Platoon
- 1710- 1730 **Ms. Natalie Mitchell, Technology Management Associates**
EW in JICD 4.2
- 1730 – 2030 **Networking Reception in Historic Havre de Grace**
Vandiver Inn, 301 S Union Ave, Havre De Grace, MD 21078

Thursday, October 10

APG C4ISR Campus, Myer Auditorium, Bldg 6000

- 0715 – 0810 **Continental Breakfast and Registration in The Raven’s Networking Tent**
- 0820 – 0830 **Welcome, Administrative Briefing and Conference Update**
Mr. Giorgio Bertoli and Mr. Rod Knecht, Conference Co-Chairmen
- 0830 – 0840 **Opening Remarks & Security Briefing**
DOTMLPF-P Session, Session Chair: Dr. Jeff Boksiner, CCDC C5ISR Center
- 0840 – 0910 **Major General Peter Gallagher, Director, Network Cross-Functional Team**
Major General David Bassett, PEO Command, Control and Communications-Tactical
Keynote Address
- 0910 – 0930 **Mr. Matthew Maher, Processus Group Inc**
DOTMLPF-P Analysis in a Knowledge Model for CEMA Optimization
- 0930 – 0950 **CW3 Zachary Cervantes, US ARMY, 2d Squadron, 14th Cavalry Regiment 2d IBCT, 25th Infantry Division**
MDO at BCT and Below 1.0
- 0950 – 1010 **Mr. Steve Jones, Raytheon**
MFEW/EWPMT Enables “What if…”
- 1010 – 1050 **Break in the Raven’s Networking Tent**
- 1050 – 1210 **Technical Panel Discussion**
Moderator: Mr Richard Amott, Perspecta
Colonel Mark Dotson, TRADOC Capabilities Manager - Electronic Warfare Cyber Center of Excellence & Fort Gordon
Colonel Jennifer McAfee, U.S Army, Director at TCM Terrestrial & Identity
Colonel John Transue, TCM-Cyber
LTC Trevor Chartier, Network CFT

1210 – 1220 **Closing Remarks**
Mr. Giorgio Bertoli and Mr. Rod Knecht, Conference Co-Chairmen

1220 – 1320 **Lunch at the Raven’s Networking Tent**

***Note:** the dress code for the CEMA Conference is business professional or military duty uniform (ACU). For the Monday CEMA Cell User Session event only, the dress code for all invitees is business casual (dress slacks/khakis/skirt and a button down dress shirt/blouse or polo). Evening network receptions are business casual.*