



48th Annual Collaborative EW Symposium



2-4 APRIL 2019

Pt. Mugu, CA

As of March 29, subject to change

Agenda

All sessions will be held at the Station Theater, NBVC, Pt Mugu, CA

Day 1 is Secret US Only; Day 2 & 3 are Secret Releasable to USA and AUS

Tuesday, 2 April | *SECRET US Only Session*

0800 – 0900

Welcome

Mr. Brian Ziegler, Conference Chair
RDML Scott Dillon, Commander, Naval Air Warfare Center Weapon
Mr. Greg Patschke, Association of Old Crows
CAPT Mike Supko, AIR-4.5 National Military Director, Naval Air Systems Command
CAPT Jeff Chism, Commanding Officer, Naval Base Ventura County, CA

0900 – 0945

Keynote Address

RADM Steve Parade, Director, Warfare Integration Directorate N2/N6, Office of the Chief of Naval Operations

0945 – 1010

Break

1010 – 1025

Session 1: Electronic Warfare Enablers | Session Chair: Mr. Daniel Omoto, NAWC-WD

1030 – 1100

Future S&T Strategy for Cooperative and Collaborative Airborne EW

Dr. Daniel Green, Office of Naval Research

1100 – 1130

Cooperative Electronic Warfare

Mr. Reginald Cooper, AFRL

1135 – 1150

Lab Tour Overview and Instructions

Mr. Kevin Willoh, NAWC-WD

1155 – 1255

Lunch

1300 – 1400

Keynote Address

Dr. William G. Conley, Director Electronic Warfare, Office of the Under Secretary of Defense, Acquisition and Sustainment

Session 2: Collaborative Electronic Attack | Session Chair: Mr. Brian Hill, NAWC-WD

1405 – 1435

Analytical Modeling Stand-In EA vs Ideal Networked IADS

Dr. Mark Smith, GTRI

1440 – 1510

Collaborative EA Using Interwoven Communication and Jamming

Mr. Brian Stevens, JHU/APL

1510 – 1530

Break

1535 – 1605 *Application of Analysis Methodology to a Data Link Use Case*
Mr. Quinn Matthew, JHU/APL & Dr. Jon Ward, JHU/APL

1605 – 1635 *Decisive Sting/DON M&S - Test, Training, Experimentation and Rehearsal (TTE&R)*
Mr. Marcus Makarehchi, DON M&S & Mr. Greg Siuta, DON M&S

Session 3: Warfighter Perspective | Session Chair: CDR Michael Szczerbinski, AIR-4.5 / NAWC-WD EMW Military Lead

1645 – 1715 *MH-60R Collection Operations*
LT John "Dom" Bamonte, HSM Weapons School Pacific

1715 – 1720 **Closing Remarks**

Wednesday, 3 April | SECRET//REL to USA, AUS Session

0800 – 0810 **Opening Remarks**, Mr. Brian Ziegler, Conference Chair

0810 – 0910 **Keynote Address**
AIRCDRE Terry Van Haren, Royal Australian Air Force Attache Washington

Session 1 (cont.): Electronic Warfare Enablers | Session Chair: Mr. Daniel Omoto

0920 – 0950 *All-domain Overhead Cooperative Operations (AOOCO) ELINT Operations Evolution*
Mr. Erik Martin, NRO

0950 – 1020 **Break**

1025 – 1055 *Collaborative EW Enablers in the Naval Tactical Grid*
Mr. David Wheeler, PMA-290E

1055 – 1125 *Networked EW Test Bed (NEWT)*
Dr. Jason Fuemmeler, Collins

1130 – 1200 *Quantum Technologies – Hype or Game Changer?*
Dr. Anthony Szabo, Defense Science and Technology Group

1200 – 1300 **Lunch**

Session 2 (cont.): Collaborative Electronic Attack | Session Chair: Mr. Brian Hill, NAWC-WD

1305 – 1335 *EW for Operations in Multi-domain BATtle (EWOMBAT) Essential Research Program (ERP) Overview*
Dr. Matthew Higgins, Army Research Lab

1340 – 1405 *USMC Collaborative Electronic Warfare, Requirements to Reality*
Lt Col Jeffrey Kawada, USMC, MAGTF EW, OCO & Space

1405 – 1415 **Closing Remarks**

1415 – 1655 **Aircraft/Static Displays & Tours of NAWCWD EW and Range Facilities**

Thursday, 4 April | SECRET//REL to USA, AUS Session

0800 – 0810 **Opening Remarks**, Mr. Brian Ziegler, Conference Chair

Session 4: Coherent Electronic Attack | Session Chair: Mr. Thomas Bluhm

0820 – 0850 *Outcomes of Collaborative Passive Coherent Location System Test*
Mr. Joseph Verringer, DSTG & Mr. David Wu, NAWC-WD

0855 – 0925 *Direct Antenna Modulation: A Novel Pathway for Transmitting High-Bandwidth Signals with Electrically Small Antennas*
Mr. Jean-Paul Santos, NAWC-WD

- 0930 – 1000 *Classification of Unknown Emitters Using Machine Learning*
Mr. Christopher Lewis, Defence Science and Technology Group
- 1000 – 1030 **Break**
- 1030 – 1100 *Mission Planning for Collaborative Electronic Attack MALD-J Usecase*
Mr. Niraj Srivastava, Raytheon
- 1100 – 1130 *Evolution of Electronic Warfare Integrate Labs (EWIL) with NEWEG and T2OURNAMINT*
Dr. Bill Metz, NAWC-WD & Ms. Jenifer Koch, NAWC-WD
- 1135 – 1205 *The Bear Jams Over the Mountain: Emulating the EW Bear enabling Multi-Domain Operations*
Dr. Bill Cojocar, Kerberos International
- 1205 – 1305 **Lunch**
- Session 2 (cont.): Collaborative Electronic Attack** | Session Chair: Mr. Brian Hill, NAWC-WD
- 1315 – 1345 *Implementing Collaborate Electronic Attack Solution - A Demonstration Autonomous EW Resource Allocation*
Mr. Michael Garcia, NAWC-WD
- 1350 – 1420 *Electromagnetic Maneuver Warfare - Resource Allocation Management (EMW-RAM) Overview*
Dr. Daniel Green, Office of Naval Research
- Session 3 (cont.): Warfighter Perspective** | Session Chair: CDR Michael Szczerbinski, AIR-4.5 / NAWC-WD EMW Military Lead
- 1435 – 1505 E-2D ADRP Survivability Program
Mr. Scot Napoletano, NAWC-WD
- 1510 – 1550 *VMAQ-2 Post Deployment Debrief*
Lt Col Andrew Rundle, USMC, Marine Tactical Electronic Warfare Squadron 2
Captain Ryan Ratcliffe, USMC, Marine Tactical Electronic Warfare Squadron 2
- 1550 – 1555 **Closing Remarks**
CAPT Michael Supko, Deputy National Director, Avionics Sensors and E*Warfare Department (AIR-4.5)
- 1555 – 1600 **Conference Wrap Up**
Mr. Brian Ziegler, Conference Chair