



48th Annual Collaborative EW Symposium



2-4 APRIL 2019

Pt. Mugu, CA

As of March 4, 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*

Welcome

Mr. Brian Ziegler, Conference Chair
CAPT Jeff Chism, Commanding Officer, Naval Base Ventura County, CA
Mr. Muddy Watters, President, Association of Old Crows
Mike Supko, AIR-4.5 National Military Director, Naval Air Systems Command
Matthew Sniffin, Vice Commander, Naval Air Warfare Center Weapons Division
Scot Dillon, Commander Naval Air Warfare Center Weapons Division

Keynote Address

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

Session 1: Electronic Warfare Enablers

Session Chair: Mr. Daniel Omoto, NAWC-WD

Non-EA technology trends and advancements that are necessary to produce greater EA effectiveness. Includes networked solutions, interoperability / compatibility concerns, manned / unmanned teaming, assured communications, and other related S&T technologies.

Future S&T Strategy for Cooperative and Collaborative Airborne EW

Mr. Shane Stein, Office of Naval Research

TBD

Lab Tour Overview and Instructions

Mr.. Kevin Willow, NAWCWD

1200 – 1300

LUNCH

Keynote Address

Dr. William Conley
Director Electronic Warfare, 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

Collaborative EW is driving mission planning, execution, and assessment to a new reality. To achieve efficient coordination with and tasking of distributed and cognitive networked EW systems, mission planning, execution, and assessment needs to be capable of working with multiple disparate systems before, during, and after a mission. The challenges of enabling dynamic resource allocation by EW operators working with unmanned and cognitive systems at the tactical to operational levels need to be addressed.

Analytical Modeling Stand-In EA vs Ideal Networked IADS

Dr. Mark Smith, GTRI

Collaborative EA using Interwoven Communication and Jamming

Mr. Brian Stevens, JHU/APL

Application of Analysis Methodology to a Data Link Use Case

Mr. Quinn Matthew, JHU/APL

Decisive Sting/DON M&S - Test, Training, Experimentation and Rehearsal (TTE&R)

Mr. Marcus Makarehchi, DON M&S

Session 3: Warfighter Perspective

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

From Operation Allied Forces to present day, lessons learned have highlighted areas where Collaborative EW Data, Networked EW, and EW Decision Aids available to the EW warfighter were employed successfully.

MH-60R Collection Operations

LT John "Dom" Bamonte, HSM Weapons School Pacific

Closing Remarks

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

0800 – 0810

Opening Remarks

Mr. Brian Ziegler, Conference Chair

Keynote Address

TBD

Session 1 (cont). Electronic Warfare Enablers

Session Chair: Mr. Daniel Omoto

All-domain Overhead Cooperative Operations (AOCO) ELINT Operations Evolution

LT Kyle Galarneau and Mr. Erik Martin

Collaborative EW Enablers in the Naval Tactical Grid

Mr. David Wheeler, PMA-290E

Evolution of Electronic Warfare Integrate Labs (EWIL) with NEWEG and T2OURNAMINT

Dr. Bill Metz and Ms. Jenifer Koch, NAWC-WD

Electromagnetic Maneuver Warfare - Resource Allocation Mangement (EMW-RAM) Overview

Mr. Shane Stein, ONR Code 31

Implementing Collaborate Electronic Attack Solution - A Demonstration Autonomous EW Resource Allocation
Mr. Michael Garcia, NAWC-WD

E-2D SHEELD Efforts SHEELD Next-Gen EW Mission Planning/Post-Flight
Mr. Scot Napoletano, NAWC-WD

1200 – 1300 LUNCH

Session 2. Collaborative Electronic Attack

Session Chair: Mr. Brian Hill, NAWC-WD

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Electronic Warfare for Operations in Multi-domain BATtle (EWOMBAT) Essential Research Program (ERP) Overview
Dr. Matthew Higgins, Army Research Lab

The Bear Jams Over the Mountain: Emulating the EW Bear enabling Multi-Domain Operations
Dr. Bill Cojocar, Kerberos International

Mission Planning for Collaborative Electronic Attack MALD-J Usecase
Mr. Niraj Srivastava, Raytheon

Closing Remarks

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

Keynote Address
TBD

Session 4. Coherent Electronic Attack

Session Chair: TBD

Technology trends and advancements focused at the precise phase and timing requirements to produce sophisticated coherent jam strategies. This includes the cognitive/AI algorithms that can drive system adjustments at the speeds/precision necessary to produce coherent effects and jamming trials against modern threat systems.

Outcomes of Collaborative Passive Coherent Location System Test
Mr. Joseph Verringer, DSTG and Mr. David Wu, NAWC-WD

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

Classification of Unknown Emitters Using Machine Learning
Mr. Christopher Lewis, Defence Science and Technology Group

E-2D ADRP - Survivability Program
LCDR Theodore Stow, PMA-231

1200 – 1300 Lunch

Session 3. Warfighter Perspective (cont.)

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

VMAQ-2 Post Deployment Debrief

TBD

EA-18G Status of Current Operations

TBD

USAF Big Safari

TBD

TBD

TBD

TBD

Closing Remarks

CAPT Supko, Deputy National Director, Avionics Sensors and E*Warfare Department (AIR-4.5)

Conference Wrap Up

Mr. Brian Ziegler, Conference Chair