

2023 Kittyhawk Week Events Agenda

Wednesday 14 June

0730-0830 - Registration/Check-In

0830-1025 - Plenary Session Auditorium (CLASSIFIED - S/NF)

0830-0840 - Intro/Welcome – Dr. Stephen Hary, AOC Kittyhawk Chapter Vice President & Mr. Todd Kastle, AOC Kittyhawk Chapter President

0840-0940 - Keynote: Brig Gen Rogers, "EMSO COET Picture"

0900-1000 - Keynote: Dr. Steven Wax - Defense S&T Overview

1000-1030 - Break (Marshall Room)

You have the option to attend breakout sessions A or B Session A - Meyer Room (Unclassified - DISTRO C)

1045-1200 - Session A1: Multi-Service/OSD Perspectives

1. Mr. Logan Harr, Principal Director of Integrated Sensing and Cyber, Office of the Deputy Chief Technology Officer for Critical Technologies - DCTO(CT), "OSR R&R world View"
2. Dr. Joshua Hawke, Navy Crane, "OSD RF and EO Electronics Technology Portfolio"

1200-1330 - Lunch (Riverview Cafeteria) (Unclassified - DISTRO A)

1330-1700 - Session A - Meyer Room (Unclassified - DISTRO C)

1330-1500 - Session A2: Collaboration Delivers Innovation Across the USAF Enterprise (HAF, AFRL, and AFLCMC)

1. Mr. Rich Hencke, Air Force Futures, "Future Force Design"
2. Mr. Craig Stansifer, AFRL TCO, "WARTECH Challenge Problem Definition"
3. Mr. Hector Guevara, AFLCMC/WIN, "WIN's Digital Transformation Journey"

1500-1530 - Break (Riverview Cafeteria)

1530-1700 - Session A3: RF Tech session 1

1. Dr. Andrew Wegener, AFRL "DARPA's Wideband Adaptive RF Protection (WARP) Program"
2. Dr. Audrey Paulus, GTRI, "ESM Mode Development for Digital Arrays"
3. Ms. Judy Riche, "Directed Energy Cameo Model Familiarization"

Session B - Auditorium (CLASSIFIED - S/NF)

1045-1200 - Session B1: IRCM Threads and Programs

1. Mr. Stuart Mapes, NASIC/ACAW, "IR Air-Air Missile Thread Brief"
2. Mr. Barry Price, PM/ASE - Advanced Technology, Redstone Arsenal, Huntsville, Alabama "Common Infrared Countermeasure (CIRC) for Army Platforms"

Wednesday 14 June Session B continued

1200-1330 - Lunch (Riverview Cafeteria) (Unclassified - DISTRO A)

1330-1700 - Session B - Auditorium (CLASSIFIED - S/NF)

1330-1500 - Session B2: IRCM Programs and EO/IR Technologies

1. Mr. Kenneth Sarakady, IRCM Systems - NRL, "Distributed Aperature Infrared Countermeasure (DAIRCM)"
2. Dr. John Gibson, AFRL/RYYW, "Cellular Laser Exposure Assessment Recorder (CLEAR)"
3. Dr. John Gibson, AFRL/RYYW, "Laser Identification System (LasIdS)"

1500-1530 - Break (Riverview Cafeteria)

1530-1700 - Session B3: LCMC briefs

1. Mr. Keith "Shooter" Kirk, AFRL/SDPE, "AERRES, GREFFEN, MIRAGE & Banshee Phoenix"
2. Mr. Jon "Tom" Graves, AFLCMC/WYN-AC&SI, "AFLCMC/WN'Y' EW Projects"
3. Mr. David Peavy, AFLCMC/WYN-AC&SI, "Angry Kitten Pods and ACEDE"

Thursday 15 June

0800-0830 - Registration/Check-In

0830-1200 - Main Session, Meyers Room (Unclassified - DISTRO C)

0830-0845 - Intro/Welcome – Dr. Stephen Hary, AOC Kittyhawk Chapter Vice President & Mr. Todd Kastle, AOC Kittyhawk Chapter President

0845-0945 - Keynote: Mr. Robert B. Fookes, SES, Director of Engineering, HQ AFMC

0945-1015 - Keynote: Ms. Amanda Gentry, Director AFRL Sensors Directorate

1015-1020 - Intro Poster Session - Mr. Cliff Bullmaster, Dr. Stephen Hary

1020-1030 - Break - Set up Poster Session

1030-1200 - Unclassified Poster Session, Myers Room (Unclassified - DISTRO C)

1030-1200 - Classified Poster Session, Auditorium (CLASSIFIED - S/NF)

1200-1300 - Lunch (Riverview Cafeteria) (Unclassified - DISTRO A)

1330-1500 - Session B4: Cognitive EW/Advanced Technology

You have the option to attend breakout sessions A or B Session A - Meyer Room (Unclassified - DISTRO C)

1330-1500 - Session A4: RF Tech Session 2

1. Mr. Doug Glass, AFRL/RYYW, "Cognitive EW National Roadmap"
2. Mr. Ryan Sites, AFRL/RYYW, "Cognitive EW portion of the EMSO COET (CUI)"
3. Speaker TBD, AFRL/RYYW, "Common Framework Environment (CFE) for Developing SIGINT/EA/EW/DSP Applications"

Thursday 15 June Session A continued

1500-1530 - Break (Riverview Cafeteria)

1530 1700 - Session A5: Digital Material Management

1. Mr. Keith Lucas, Systems Modeler SME, DAF, DTO, "Open MBSE and PySysML2"
2. Mr. Frank Stone, ACC/A5RI, "Next Gen Sensors Modeling"
3. Mr. Keegan Merkert, MITRE / Navy, "Directed Energy MOSA reference Architecture"

Session B - Auditorium (CLASSIFIED - S/NF)

1. Dr. Reggie Cooper (DARPA/STO)
2. Mr. John Davies (DARPA/MTO)
3. Mr. Rod Perry, AFRL/RYYW, "VADR"

1500-1530 - Break (Riverview Cafeteria)

1530 1700 - Session B5: Emerging Threat Environment

1. Mr. Keith Pedersen NASIC/FTER, "PACOM Overview"
2. Mr. Weston Earick, AFRL/RYYW, "EMS Dominator: An Architecture for EWBM"
3. TAPA/RIMPAC 2022, NRL

Poster Sessions

Poster Session A (Meyers Rm) (Unclassified - Distro C)

Wideband Integrated Digital Receiver for ELINT Bands using Advanced Next-Generation Devices – Mr. David Doster, RYDR

Advanced DBF ASIC for Next Gen Arrays with Integrated Root of Security Features – Mr. Tom Dalrymple, RYDR

Interferometric Electronic Support Mode Design for Multi-Function Digital Arrays – Mr. Zachary Peck, Ms. Katelyn Hampel et al., JHUAPL

A Summary of Recent Accomplishments and Efforts within Cyber Physical Sensing – Mr. Talal Mian, RYAA

Poster Session B (Auditorium) (CLASSIFIED - S/NF)

Black Ratel Receiver Demonstration – Mr. Scott Rodrigue, Mr. Jesse Brand, RYWD

SOOPERFLY Tracking Attributable Radar on the Edge (STARE) – Mr. David Lucking & Mr. James Connair, RYWD

Complex Emitter Data Analytics for Tactical Electromagnetic Warfare Applications – Ms. Abigail Delnoce, RYWE

TBD – Mr. Clifton Watson, RYWE

Show Exhibitors

Location: Marshall Room



Tutorials

Tuesday 13 June

Session A - Meyer Room (Unclassified - DISTR0 C)

0800-1200 - RADAR & EW Systems Testing/Capabilities

Tutorials presented by Mr. Tim Fountain, Rohde & Schwarz
Global Market Segment Manager, RADAR & EW

0800-0830 - Check-In

0830-0930 - Testing for coexistence in crowded and contested RF environments

0945-1045 - Improving the capabilities of cognitive radar and EW systems

1100-1200 - Space Electronic Warfare - An Overview

1200-1330 - Lunch (on your own)

1330-1700 - Lidar Theory and Practice

Tutorials presented by Dr. Paul F. McManamon, Technical Director of the Lidar and Optical Communications Institute, LOCI, at the University of Dayton

The first half of the tutorial provides a comprehensive introduction to lidar theory, a history of lidar development, and an overview of the different types of lidar with their features and benefits. The second half of the tutorial details how to calculate a lidar link budget, which is a parametric mathematical model of system performance.

Session B - Auditorium (CLASSIFIED - S/NF)

0900-1200 - IR Countermeasures and Systems

IR Guided Missiles and History of DIRCM

1. Mr. Adam Coleman, Leidos-AFRL/RYYW - DIME Lab
Covers details on how IR guided missiles function and the countermeasure programs over the years.

Building a Digital Twin of an IR Missile

2. Mr. Mark Hiteshew, Leidos-AFRL/RYYW - DIME Lab
Covers the process to develop a digital twin of an IR seeker and full up missile. Includes the threat characterization and testing necessary to achieve high fidelity results in engagement modeling and simulation.

1200-1330 - Lunch (on your own)

0900-1200 - Cognitive EW (Agile Dev Ops, SW/Alg Development, Data Production)

Mr. Doug Glass - Cog EW Tutorial Introduction

Mr. Andrew Vandemotter, BAH - Data Production

Mr. David Zilz, BAH - EW Algorithms

Mr. Jim Herner, BAH - Agile DevOps

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and exhibitors of Kittyhawk Week 2023!

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Kittyhawk Week 2023

June 14th – June 16th

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