Monday, 16 November – Pre-Workshop Tutorials
8:00 AM – 12:00 PM

**Cyber Table Top (CTT) Workshop**
Vincent Lamolinara, Defense Acquisition University (DAU)

**Cyber Security Assessment of MIL-STD-1553**
Adam McCorkle, Georgia Tech Research Laboratory (GTRI)

---

Monday, 16 November – Pre-Workshop Tutorials
1:00 PM – 5:00 PM

**Air Force’s New MBCRA (Mission Based Cyber Risk Assessment) and Integrated Engineering Approach**
Kevin McGowan, 47CTS/OL-A (COLSA)

**Introduction to Cybersecurity Test and Evaluation**
Pete Christensen, American Systems and Jean Petty, MITRE Corporation

**TENA and JMETC Solutions for Cyber Test and Training**
Gene Hudgins, Test Resource Management Center, Joint Mission Environment Test Capability (TRMC/JMETC)

Tutorial Descriptions

---

Tuesday, 17 November – Day 1
Morning Session 8:00 AM – Noon

**On the Main Stage**

**10:00 AM Opening Ceremony** – Pete Crump GTRI, ITEA President

**Welcome and Opening Remarks**, Min Kim, 96th Cyberspace Test Group, Program Chair

**10:10 AM Opening Keynote Speaker** – George Rumford, Principal Deputy Director, Department of Defense, Test Resource Management Center

**11:10 AM Guest Speaker** – Major General Christopher Azzano, Commander, Air Force Test Center, Edwards Air Force Base

**12:00 PM Lunch Break** – Please take this time to visit the Virtual Exhibits in the EXPO

* Workshop will be held in Central Time
Afternoon Technical Track Sessions: 1:00 PM – 4:15 PM – Each Session 30 Minutes

In Tech Sessions

T&E Methodology (Part 1)
- Emerging Cyber Table Top Toolset
- Cyber Conditions and Test Tools
- T&E Methodologies

Test Environment (Part 1)
- Automated Knowledge-based Model Component Generation
- Towards Automated White-Cell Operations for Cybersecurity Training and Exercises
- Component Test Bed for Cyber DT

2:30 PM Virtual Exhibits – EXPO

T&E Methodology (Part 2)
- Cyber Survivability Attributes (CSA) Tool
- Rethinking the Data Collection Problem in Cyber Ranges
- Airborne Instrumentation Cybersecurity

Test Environment (Part 2)
- Cyber Pipelines - Solving Cyber Challenges with Agile Tools
- Meeting Cybersecurity Requirements with Your Operational Technology (OT)

4:15 PM Virtual Networking Event

Wednesday, 18 November – Day 2
Morning Session 8:00 AM – Noon

8:00 AM Coffee & Connect (Networking)

On the Main Stage

8:55 AM Welcome & Introductions – Scott Thompson, EWA

9:00 AM Keynote Speaker – Brigadier General Evan Dertien, Director, Air, Space and Cyberspace Operations, Headquarters Air Force Materiel Command

10:00 AM Featured Speaker – Amy Henninger, PhD, Senior Advisor for Software and Cybersecurity Office of the Director Operational Test & Evaluation (DOT&E)

10:45 AM Virtual Exhibits – EXPO

11:00 AM Guest Speaker - Chip Ferguson - Deputy DoD EA for Cyber Test Ranges, Test Resource Management Center (TRMC)

12:00 PM Lunch Break – Please take this time to visit the Virtual Exhibits in the EXPO

* Workshop will be held in Central Time
Afternoon Technical Track Sessions: 1:00 PM – 4:15 PM – Each Session 30 Minutes

In Tech Sessions

Software Test and Assurance
- Software Testing and Assurance at TRMC and the RDT&E Overlay
- Proteus: Automatically Find and Fix Vulnerabilities in Software Binaries
- Techniques for Fuzzing Embedded and Distributed System

Cyber Test Range
- A New Strategy for Funding T&E Range Infrastructure
- Why You Need Cyber Range as a Service
- Range Commander's Council (RCC) Cybersecurity Working Group Overview

2:30 PM Virtual Exhibits – EXPO

T&E Methodology (Part 3)
- FOSS Testing to Reduce Cybersecurity Risk
- Cyber T&E for Industrial Control Systems
- Using Probabilistic Mission Risk Analysis (PMRA) to Present Testing Data

Test Environment (Part 3)
- Virtualization: A Tool and A Challenge for T&E
- Cybersecurity - A Vendor Perspective, Part 3: Integrating Cyber Security into Product Development

Thursday, 19 November – Day 3
Morning Session 8:00 AM – Noon

8:00 AM Coffee & Connect (Networking)

On the Main Stage

8:50 AM Welcome & Introductions – John Rafferty, 16 EWS/B2 Branch

9:00 AM Featured Speaker – Brigadier General Scott Cain, Commander, 96 Test Wing
“T&E Challenges in Cybersecurity”

10:00 AM Guest Speaker – Colonel Michael Dooley, Commander, 96 Cyberspace Test Group

10:45 AM Virtual Exhibits – EXPO

11:00 AM Panel Discussion: “Cyber Testing - Yesterday, Today, and Tomorrow”
Chair: Sarah Standard - Cybersecurity/Interoperability Technical Director OUSD R&E, DDTE&A

12:00 PM Lunch Break – Please take this time to visit the Virtual Exhibits in the EXPO

* Workshop will be held in Central Time
Afternoon Technical Track Sessions: 1:00 PM – 4:15 PM – Each Session 30 Minutes

In Tech Sessions

**Cyber EW**
- Cyber T&E for Aviation IFF
- Cyber and EW Convergence Considerations for Operational Testing

**Test Resource Management Center**
- Artificial Intelligence Platform of Cyber Threat Automation and Monitoring (CTAM) System
- TRMC Cybersecurity Services Update

**2:30 PM Virtual Exhibits – EXPO**

**T&E Methodology (Part 4)**
- Updates to the JCIDS Manual and Their Impacts on Cybersecurity and T&E
- Human-in-the-loop Experimentation Support on the CyberVAN Test Bed

**Workforce Development**
- Youthful Discretion: Lessons Learned Recruiting, Engaging and Retaining Junior Cyber Engineers
- Supporting Cybersecurity Test and Evaluation Professionals