



Conference Proceedings

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26th National Test & Evaluation Conference

"Defense Test & Evaluation in a Net-Centric World"

1 - 4 March 2010

San Diego, CA

Agenda

Monday, March 1, 2010

Tutorial A: Session 1

Mission-Based Capability Assessment in Netcentric Systems of Systems (SOS)

- "An Update on Mission-Based Test and Evaluation (MBT&E)", [Mr. Christopher M. Wilcox](#), ATEC

Tutorial C: Session 1

Using Design of Experiments (DOE) to Transform a Test Organization

- [Mr. Greg Hutto](#) , Wing Operations Analyst, 46 Test Wing, Eglin, AFB, Florida
- [Dr. Tom Donnelly](#) , SAS Institute

Tuesday, March 2, 2010

Keynote Address:

- [Honorable Dr. David S. C. Chu](#) , President, Institute for Defense Analyses

15,000 Networks, 5 Million Users: T&E Net Centric Challenges

- [Mr. John Illgen](#) , Northrop Grumman Corporation; Chairman of the Board of Directors, NDIA

Session B: OTA Commanders' Roundtable

- Roundtable

Major General Roger Nadeau , Commander, ATEC

- Mr. Bill McCarthy , Deputy, COTF (00D)
- Col David L. Reeves , USMC, Commander, MCOTEA

Luncheon and Special Guest Speaker:

- Improving Processes and Policies For the Acquisition and Test of Information Technologies in DoD, [Dr. H. Steven Kimmel](#), Senior Vice President, Alion Science and Technology Achieving Effective Acquisition of Information Technology in the Department of Defense

The DoD Acquisition/Test Process, What Went Wrong and How to Fix the Process; A Report on the Defense Science Board (DSB) Study of DT&E & A Perspective on the Remedies Needed to Improve DoD Acquisition

- [Mr. Charles "Pete" Adolph](#) , former Director, T&E, OUSD(AT&L)

Network Innovation and Experimentation: A SOCOM Project Report

- [Dr. Forrest Crain](#) , Director, AMSAA

Session D: Net-Centric T&E

- T&E for Agile Information Technologies, [Dr. Steven Hutchison](#) , DISA
- Closing the Test and Evaluation Gap in a Net-Centric Future, [Mr. Gary Downs](#) , Lockheed Martin
- A Tool for Making T&E Itself Net-Centric, [Mr. Alan Thomas](#) , Naval Surface Warfare Center (NSWC) Dahlgren
- Testing & Evaluating the Net-Ready Key Performance Parameter (KPP), [Ms. Danielle Koester](#), JITC, Huachuca

Session E: T&E of Chemical/Biological Systems

- Systematic Approach to Identifying and Testing Individual Respiratory Protection Against Toxic Industrial Chemicals, [Dr. Karen McGrady](#), Joint Program Manager for Individual Protection
- The Army Health Hazard Assessment Program's Medical Cost Avoidance Model, [Dr. Timothy A. Kluchinsky](#), USAPHC (Provisional)
- Naval Research Laboratory Industrial Chemical Analysis, [Dr. Thomas Sutto](#) , NRL
- Test Methodology Development for Individual Respiratory Protection Against VXMs., [Ms. Chris Susman](#) , SURVICE Engineering
- The Challenge of Fielding a System Across Services and PEOs, [Ms. Debbie Singleton](#) , JPM for Individual Protection

Session F: Applications of Design of Experiments (DOE) and Six Sigma in T&E

- Incorporating DoE and Test-Execution Lessons-Learned to Increase T&E Credibility, [Ms. Nancy Dunn](#) , ATEC/AEC
- Optimal Verification Testing with Graphical Effects Analysis, [Mr. Mark Anderson](#) , Stat-Ease
- Using Cost and Schedule Estimates Guided by Design of Experiments Process to Plan Schedule-Optimal or Cost-Optimal Test Designs for Integrated Development Testing and Operational Testing, [E. Andrew Long](#), DOT&E
- Use of Design of Experiments to Determine the Critical Technical Parameters and Evaluation Framework in a T&E Strategy, [Mr. Mick Quintrall](#), Whitney, Bradley & Brown, Inc.
- Comparison of Prediction Accuracy of Surrogate Models Developed Using Nested Latin Hypercube Designs ❖ "How Many Simulation Experiments Do I Need to Run?", [Dr. Tom Donnelly](#), SAS Institute

Session G: Test & Evaluation for Lethality and Survivability Assessment

- Integrated Survivability Assessment (ISA): Bridging DT&E, LFT&E and OT&E, [Mr. David Hall](#), SURVICE Engineering
- Mine Blast Analysis Tool for Rigid Body Response: A Quick, Reliable Predictive Methodology to Estimate Relative Acceleration Environments Experienced by Crewmembers in Specific Mine Scenarios, [Ms. Katie Hill](#), SURVICE Engineering
- A Method to Assess Survivability, Lethality and Vulnerability in a System of Systems, [Dr. Jeffrey Smith](#) , ARL, WSMR

- A Process for Identifying Vulnerable Components Based on Impact to Mission Degradation, [Mr. Kevin Agan](#) , ARL, SLAD

Wednesday, March 3, 2010

Weapon Systems Acquisition Reform Act and DT&E Within the Department of Defense

- [Mr. Christopher DiPetto](#) , Acting Director, DT&E, ODDR&E

T&E and Its Role in 5000.02: How T&E Can Become a Program Lifecycle Skill

- [Mr. Stephen Scukanec](#) , Northrop Grumman Corporation

Erasing the Line With Title 10: Best Practices in Integrated Testing

- [Dr. Beth Wilson](#) , Raytheon Company

Integrated Test and Independent Evaluation (IT&EI) Using Design of Experiments (DOE) Methodologies: Early Planning For DT Exit Criteria That Mirrors OT Entrance Criteria

- [Mr. Mick Quintrall](#), Whitney, Bradley & Brown, Inc.

Session I: T&E Policy & Studies Continued

Chair: [Dr. H. Steven Kimmel](#) , Senior Vice President, Alion Science and Technology

Session J: Systems Engineering Considerations in Practicing Test and Evaluation

- [Mr. Stephen Welby](#) , Director, Systems Engineering, DDR&E, OSD
- [Col Shawn Shanley](#) , USAF, Chief Systems Engineer, Office of the Assistant Secretary of the Air Force for Acquisition, Science, Technology, and Engineering (SAF/AQR)

Session K: Test and Evaluation Architecture & Facilities

- Accelerating Technology Maturity via Rapid Debug and Redeployment, [Mr. Redge Bartholomew](#), Rockwell Collins
- Whitfill Central Technical Support Facility (CTSF) Conducts System of System (SoS) Tests in a Net-Centric Environment Achieving Interoperability for the Army, [Ms. Madeline Wright](#), CTSF, Ft. Hood
- Service-Oriented Architecture (SOA) Implications to Integrated End-to-End Testing, [Mr. Brian Eleazer](#), SCRA
- Lessons Learned from Army Interoperability Certification Testing, [Mr. Robert Boerjan](#) , CTSF, Ft. Hood
- The "Eglin IV": Metrics of a Well-Designed Experiment, Mr. Gregory T. Hutto, 46 Test Wing, Eglin AFB

Session L: T&E of Systems of Systems

- A Case Study of Successful T&E in a Complex System of Systems Environment, [Mr. Edwin McDermott](#), Hanscom, AFB
- Measuring System Contributions to System of Systems with Joint Mission Threads, [Mr. Mark Fiebrandt](#), SRC
- Combat Effectiveness Testing of System of Systems in the Face of Cyber Threat, [Mr. Jonathon Payne](#), JFCOM, IO Range
- An Approach to Service Level System of Systems Assessment (CTSF), [Mr. David McClung](#), CTSF, Ft. Hood
- C-RAM Conducts True System of Systems Testing and Evaluation, [Mr. James Bloodsworth](#), US Army Aviation & Missile Research Development & Engineering Center

Session M: Role of Modeling and Simulation in T&E

- Validating M&S with T&EData: Pitfalls, Problems and Potential Solutions, [Mr. David Hall](#), SURVICE Engineering
- Defense Information Technology: An Integrated Model, [Dr. Robert Berger](#) , DDL Omni, Inc
- NDIA Software T&E Summit/Workshop Results, [Mr. Tom Wissink](#) , Lockheed Martin Corporation
- The Application of Synthetic Natural Environments for Modeling and Simulation Support of Testing Net-Centric

Federations, [Mr. Michael Leite](#) , SAIC

- Change is Good!...and other mantras to live by! Making Process Improvement Work for You, [Ms. Coleen Crouch](#), Central Technical Support Facility

Session N: Integrated Test and Evaluation

- Performance Engineering Initiatives for Early System Test of High Availability Systems, [Mr. Edward Beck](#) , Mission Solutions Engineering, LLC (MSE LLC)
- Integrated Testing Implementation Guidance, [Dr. Suzanne Beers](#) , The MITRE Corporation
- Early Development Testing for Rapid Acquisition, [Col Robert Mattes](#) , USAF (Ret), Foxhole Technology, Inc.
- Some Operational Research Issues in System Testing, [Dr. Donald Gaver](#) , Naval Postgraduate School

Thursday, March 4, 2010

Challenges of Systems of Systems Testing, A Reality Check: The FCS Program

- [LTG Joseph Yakovac](#) , USA (Ret), Professor, Naval Postgraduate School

When Robots Talk on the Net, What Will They Say?

- [VADM Joe Dyer](#) , USN (Ret), President, iRobot Corporation; Chairman NDIA Robotics Division

NDIA ICOTE Annual Report

- [Mr. Larry Graviss](#) , NDIA Industrial Committee on Operational Test & Evaluation (ICOTE)

Mission-Based Test and Evaluation Strategy: Progress Towards Uniting Combat Developer, Materiel Developer and T&E

- [Mr. Christopher Wilcox](#) , Army AEC

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