Developmental Test and Evaluation Committee: Collaboration and Alignment with Systems Engineering Division

Beth Wilson, Raytheon
Steve Scukanec, Northrop Grumman
NDIA Developmental Test and Evaluation Committee
DT&E Committee Collaboration and Alignment

• DT&E Committee Structure Within NDIA

• Update on SE Division Focus Area Topics:
  – T&E for SoS Initiatives
  – T&E use of M&S
  – SE Conference (October 2011)

• Update on T&E Division Focus Areas Topics:
  – Integrated Testing
  – RFP Language for T&E
  – NCOIC T&E WG
  – T&E Conference (March 2012)

• Summary
## DT&E Committee Activities
### Systems Engineering Division

<table>
<thead>
<tr>
<th>SED Committee</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>System of Systems</td>
<td>T&amp;E for SoS Workshop in 2010</td>
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<td>T&amp;E for SoS Initiatives Work in 2011</td>
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<td>March 2011 NDIA T&amp;E Conference progress report</td>
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<td>May 2011 OSD Webinar</td>
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<td>Joint track in SE Conference</td>
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<tr>
<td>Modeling and Simulation</td>
<td>T&amp;E Use of M&amp;S Joint meeting in August 2011</td>
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<td>Joint track in SE Conference</td>
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<tr>
<td>Mission Analysis</td>
<td>Data for T&amp;E data in mission thread analysis</td>
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<tr>
<td>Software</td>
<td>SW T&amp;E Summit Recommendations</td>
</tr>
</tbody>
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Test and Evaluation for Systems of Systems

**Initiative Title**
- Best Practices Model for SoS T&E
- SoS Governance
- Radical Approach to SoS T&E
- SoS SE Policy and Guidance

**Action Plan**
- Define a best practices model
- Define characteristics of successful SoS T&E
- Define SoS capability test approach
- Recognize and employ SoS SE Guide
Effective Use of Modeling and Simulation for Test and Evaluation

Joint Meeting in August 2011

- Distributed Testing, the Joint Mission Environment Test Capability (JMETC) and the Test and Training Enabling Architecture (TENA)
- DoD M&S Community of Interest Data Management Working Group
- LVC Architecture Roadmap Implementation (LVCAR-I) Gateways Effort Applicability to T&E
- OSD T&E Working Group
- Raytheon Presentation on M&S for T&E
- Potential Topics for November AMSWG Meeting
NDIA DT&E Committee SE Conference

- Test and Evaluation (Track 6):
  - Acquisition Policies
  - Integrated Test Strategies
  - Effective T&E

- Joint Tracks (Track 6):
  - Track 6 T&E/SoS/Net Centric
  - Track 6 T&E/M&S

- Related Tracks:
  - Track 2: Net Centric (Test Certification)
  - Track 7: ESOH (Safety Testing)
  - Track 10: Logistics (Built in Test)
# DT&E Committee Activities

## Test and Evaluation Division

<table>
<thead>
<tr>
<th>Topic</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T&amp;E Division</strong></td>
<td></td>
</tr>
<tr>
<td>Integrated Testing</td>
<td>2008 – 2010: Integrated Test Study</td>
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<td>NDIA presentations and tutorial</td>
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<td>ITEA journal article</td>
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<td>2011: Inputs into DAU Continuous Learning module</td>
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<tr>
<td>RFP Language for T&amp;E</td>
<td>Comments for update to OSD Guide:</td>
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<td>Incorporating Test and Evaluation into Department of Defense Acquisition Contracts</td>
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<tr>
<td>Other Collaboration</td>
<td>Industrial Committee On Test and Evaluation (ICOTE)</td>
</tr>
<tr>
<td></td>
<td>NCOIC T&amp;E Working Group</td>
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<tr>
<td></td>
<td>NDIA T&amp;E Conference (March)</td>
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Progress During 2009:

Integrated Testing Implementation Framework

Walking the Line with Title 10: Implementation Strategies for Integrated Testing

Integrated Testing: We Can Do It

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

Integrated Testing: Tutorial

Beth Wilson
Industry Co-Chair NDIA System Engineering Division, DT&E Committee
Principal Engineering Fellow, Raytheon Company

Darlene Mosser-Kerner
Government Chair NDIA Systems Engineering Division, DT&E Committee
Developmental Test & Evaluation
DUSD(AT&L)/Systems & Software Engineering

Tom Wissink
Industry Co-Chair NDIA System Engineering Division, DT&E Committee
Director of Integration, Test & Evaluation, Lockheed Martin Tactical & Cyber

NDIA DT&E Committee
T&E Conference

Test and Evaluation Conference:

Event Number
2910

Event Date
3/12/2012 to 3/15/2012

Event Location
The Westin Resort Hilton Head Island
DT&E Committee Summary

• Developmental Test and Evaluation
  – Test and Evaluation Division focus on core T&E issues
  – Systems Engineering Division focus on enabling SE solutions

• Participate in Both Divisions:
  – Attend SE Division meetings and share progress
  – DT&E Committee meetings with T&E and SE Division events
  – Tracks in both T&E and SE Conferences

• Current Collaboration
  – T&E for SoS
  – Effective M&S for T&E
  – Inputs to other efforts
  – May expand at December 2011 SE Division planning meeting