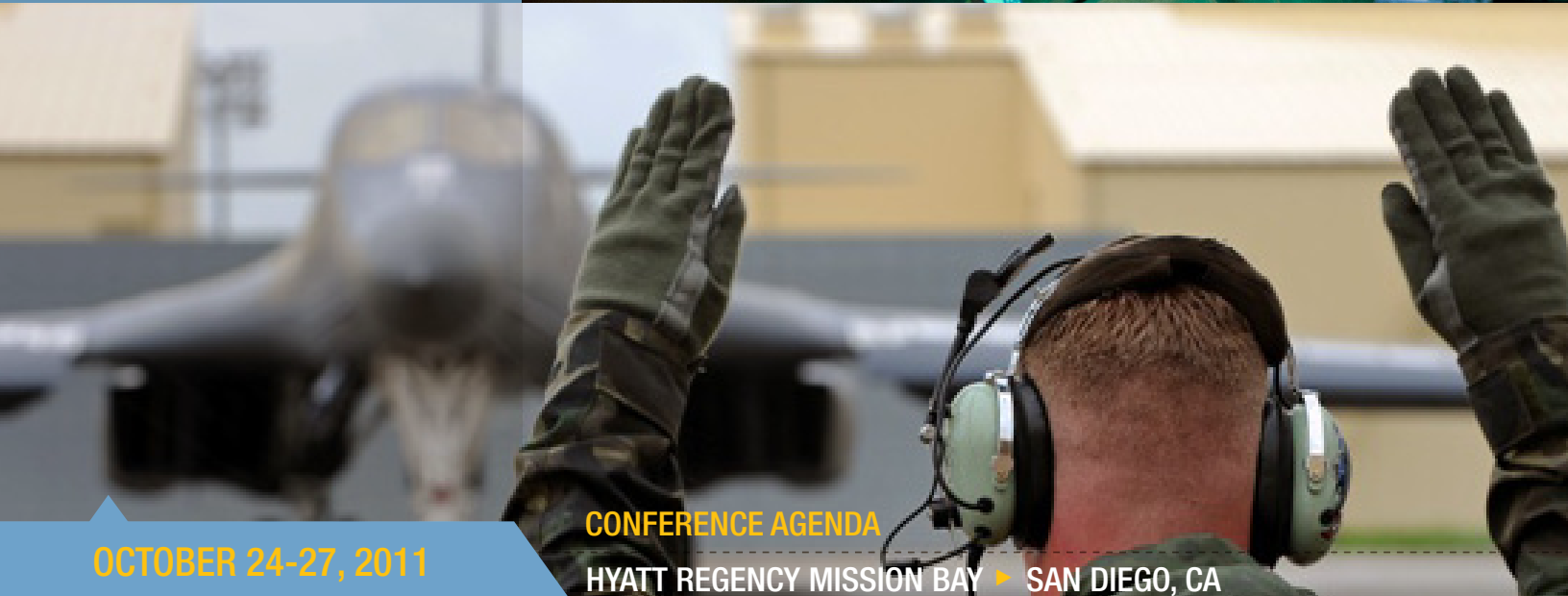


## TOPICS INCLUDE:

- ▶ Early Systems Engineering
- ▶ Test & Evaluation Acquisition Policies
- ▶ Workforce Development
- ▶ Affordability
- ▶ Human Systems Integration
- ▶ Program Management
- ▶ Logistics Systems
- ▶ Technology Maturity
- ▶ Systems Engineering Effectiveness
- ▶ Architecture
- ▶ Software-Intensive Systems
- ▶ Environmental Safety & Occupational Health
- ▶ Net-centric Operations/ Interoperability
- ▶ Modeling & Simulation
- ▶ System of Systems

# 14<sup>TH</sup> ANNUAL SYSTEMS ENGINEERING CONFERENCE



OCTOBER 24-27, 2011

[WWW.NDIA.ORG/MEETINGS/2870](http://WWW.NDIA.ORG/MEETINGS/2870)

CONFERENCE AGENDA

HYATT REGENCY MISSION BAY ▶ SAN DIEGO, CA

EVENT #2870

## SUNDAY, OCTOBER 23, 2011

5:00 PM - 7:00 PM

Registration for Tutorials and General Conference in Bayview Foyer

## MONDAY, OCTOBER 24, 2011 (PAGE 3)\*

**\*TO ATTEND MONDAY'S TUTORIAL SESSION, AN ADDITIONAL FEE IS REQUIRED.**

7:00 AM - 6:00 PM

Registration in Bayview Foyer

7:00 AM - 8:00 AM

Continental Breakfast in Bayview Foyer (TUTORIAL ATTENDEES ONLY)

8:00 AM - 9:45 AM

Tutorial Tracks (TUTORIAL ATTENDEES ONLY)

9:45 AM - 10:15 AM

Morning Break in Bayview Foyer

10:15 AM - 11:45 AM

Tutorial Tracks (TUTORIAL ATTENDEES ONLY)

11:45 AM - 1:00 PM

Luncheon in Regatta Pavilion (TUTORIAL ATTENDEES ONLY)

1:00 PM - 2:45 PM

Tutorial Tracks (TUTORIAL ATTENDEES ONLY)

2:45 PM - 3:15 PM

Afternoon Break in Bayview Foyer

3:15 PM - 6:00 PM

Tutorial Tracks (TUTORIAL ATTENDEES ONLY)

6:00 PM - 7:00 PM

Welcome Reception in Regatta Pavilion - *Open to All Conference Attendees!*

## TUESDAY, OCTOBER 25, 2011 (PAGE 4-6)

7:00 AM - 5:00 PM

Registration in Bayview Foyer

7:00 AM - 8:00 AM

Continental Breakfast in Regatta Pavilion

8:00 AM - 10:00 AM

Plenary Session in Bayview Ballroom

10:00 AM - 10:30 AM

Morning Break in Regatta Pavilion

10:30 AM - 12:00 PM

Plenary Session in Bayview Ballroom

12:00 PM - 1:30 PM

Luncheon in Regatta Pavilion

1:30 PM - 3:00 PM

Plenary Session in Bayview Ballroom

3:00 PM - 3:30 PM

Afternoon Break in Regatta Pavilion

3:30 PM - 5:15 PM

Concurrent Sessions

5:15 PM - 6:30 PM

Networking Reception in Regatta Pavilion

## WEDNESDAY, OCTOBER 26, 2011 (PAGE 6-11)

7:00 AM - 5:20 PM

Registration in Bayview Foyer

7:00 AM - 8:00 AM

Continental Breakfast in Regatta Pavilion

8:00 AM - 9:45 AM

Concurrent Sessions

9:45 AM - 10:15 AM

Morning Break in Regatta Pavilion

10:15 AM - 12:00 PM

Concurrent Sessions

12:00 PM - 1:30 PM

Awards Luncheon in Regatta Pavilion

1:30 PM - 3:50 PM

Concurrent Sessions

3:50 PM - 4:20 PM

Afternoon Break in Regatta Pavilion

4:20 PM - 5:20 PM

Keynote Address

5:20 PM

Adjourn

## THURSDAY, OCTOBER 27, 2011 (PAGE 12-15)

7:00 AM - 3:30 PM

Registration in Bayview Foyer

7:00 AM - 8:00 AM

Continental Breakfast in Regatta Pavilion

8:00 AM - 9:45 AM

Concurrent Sessions

9:45 AM - 10:15 AM

Morning Break in Regatta Pavilion

10:15 AM - 12:00 PM

Concurrent Sessions

12:00 PM - 1:30 PM

Luncheon in Regatta Pavilion

1:30 PM - 3:30 PM

Concurrent Sessions

3:30 PM

Adjourn

# MONDAY, OCTOBER 24, 2011

TRACK	8:00 AM - 9:45 AM		10:15 AM - 11:45 AM		1:00 PM - 2:45 PM		3:15 PM - 6:00 PM
<b>TRACK 1 BAYVIEW 3</b>	<b>13089</b> - "Understanding Cyber Defense, a Systems Architecture Approach" Mr. Thomas McDermott, <i>Georgia Tech Research Institute</i>		<b>(CONTINUED) 13089</b> - "Understanding Cyber Defense, a Systems Architecture Approach" Mr. Thomas McDermott, <i>Georgia Tech Research Institute</i>				
<b>TRACK 2 BAYVIEW 2</b>	<b>13185</b> - "The Berlin Airlift – A Systems Engineering Case Study" Dr. Carlee Bishop, <i>Georgia Tech Research Institute</i>		<b>(CONTINUED) 13185</b> - "The Berlin Airlift – A Systems Engineering Case Study" Dr. Carlee Bishop, <i>Georgia Tech Research Institute</i>		<b>13213</b> - "How to Write Lean Systems Engineering Requirements" Mr. Tim Olson, <i>Lean Solutions Institute, Inc.</i>		<b>(CONTINUED) 13213</b> - "How to Write Lean Systems Engineering Requirements" Mr. Tim Olson, <i>Lean Solutions Institute, Inc.</i>
<b>TRACK 3 BAYVIEW 1</b>	<b>13005</b> - "An Introduction to the Use of Modeling and Simulation Throughout the Systems Engineering Process" Dr. James Coolahan, <i>Johns Hopkins University Applied Physics Laboratory</i>		<b>(CONTINUED) 13005</b> - "An Introduction to the Use of Modeling and Simulation Throughout the Systems Engineering Process" Dr. James Coolahan, <i>Johns Hopkins University Applied Physics Laboratory</i>		<b>13121</b> - "Systems of Systems Solutions" Mr. Eric Honour, <i>Honourcode, Inc.</i>		<b>(CONTINUED) 13121</b> - "Systems of Systems Solutions" Mr. Eric Honour, <i>Honourcode, Inc.</i>
<b>TRACK 4 MISSION 1</b>	<b>13122</b> - "Systems Architecting: Practices for Agile Development in the Systems Engineering Context" Dr. Tommer Ender, <i>Georgia Tech Research Institute</i>	<b>BREAK</b>	<b>(CONTINUED) 13122</b> - "Systems Architecting: Practices for Agile Development in the Systems Engineering Context" Dr. Tommer Ender, <i>Georgia Tech Research Institute</i>	<b>LUNCHEON</b>	<b>13092</b> - "Requirements Development and Management" Mr. Al Florence, <i>The MITRE Corporation</i>	<b>BREAK</b>	<b>(CONTINUED) 13092</b> - "Requirements Development and Management" Mr. Al Florence, <i>The MITRE Corporation</i>
<b>TRACK 5 MISSION 2</b>	<b>13084</b> - "Developing Systemic Leaders" Dr. Frank Sisti, <i>The Aerospace Corporation</i>		<b>(CONTINUED) 13084</b> - "Developing Systemic Leaders" Dr. Frank Sisti, <i>The Aerospace Corporation</i>		<b>13150</b> - "Systems Engineering Experience Accelerator Demonstration" Dr. Alice Squires, <i>Stevens Institute of Technology</i>		<b>(CONTINUED) 13150</b> - "Systems Engineering Experience Accelerator Demonstration" Dr. Alice Squires, <i>Stevens Institute of Technology</i>
<b>TRACK 6 MISSION 3</b>	<b>13145</b> - "A Solutions Based Approach to MBSE Defense Architectures with UPDM" Mr. Matthew Hause, <i>Atego</i>		<b>(CONTINUED) 13145</b> - "A Solutions Based Approach to MBSE Defense Architectures with UPDM" Mr. Matthew Hause, <i>Atego</i>		<b>13156</b> - "Technical Basis for Model Driven Engineering" Dr. William Bail, <i>The MITRE Corporation</i>		<b>(CONTINUED) 13156</b> - "Technical Basis for Model Driven Engineering" Dr. William Bail, <i>The MITRE Corporation</i>
<b>TRACK 7 PALM 1</b>	<b>12982</b> - "Integrate Systems Engineering with Earned Value Management" Mr. Paul Solomon, <i>Performance-Based Earned Value</i>		<b>(CONTINUED) 12982</b> - "Integrate Systems Engineering with Earned Value Management" Mr. Paul Solomon, <i>Performance-Based Earned Value</i>		<b>13139</b> - "Lifecycle Modeling – An Approach to Simplified, Rapid Development, Operations and Support" Dr. Steven Dam, <i>SPEC Innovations</i>		<b>(CONTINUED) 13139</b> - "Lifecycle Modeling – An Approach to Simplified, Rapid Development, Operations and Support" Dr. Steven Dam, <i>SPEC Innovations</i>
<b>TRACK 8 PALM 2</b>	<b>12888</b> - "Test Planning - Advancing the Science" Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>		<b>(CONTINUED) 12888</b> - "Test Planning - Advancing the Science" Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>		<b>12950</b> - "The Effective Use of Architecture Standards for Software Technology Readiness Assessments" Dr. Peter Hantos, <i>The Aerospace Corporation</i>		<b>(CONTINUED) 12950</b> - "The Effective Use of Architecture Standards for Software Technology Readiness Assessments" Dr. Peter Hantos, <i>The Aerospace Corporation</i>

## TUESDAY, OCTOBER 25, 2011

7:00 AM - 5:00 PM

7:00 AM - 8:00 AM

8:00 AM - 10:00 AM

### PLENARY SESSION 1

### BAYVIEW BALLROOM

**Registration in Bayview Foyer**

**Continental Breakfast in Bayview Foyer**

**Plenary Session**

#### CHIEF SYSTEMS ENGINEERS PANEL

*Harnessing the Power of Innovative Technology to Deliver Capability*

**Moderator:** Mr. Stephen P. Welby, *Deputy Assistant Secretary of Defense (Systems Engineering), Office of the Assistant Secretary of Defense (Research and Engineering)*

#### Panelists:

- ▶ Mr. Terry Edwards, *Office of the Secretary of the Army for Acquisition, Logistics and Technology*
- ▶ RDML James H. Rodman, USN, *Chief Engineer, SPAWAR*
- ▶ Dr. Steven Walker, *Deputy Assistant Secretary of the Air Force for Science, Technology and Engineering*
- ▶ Mr. James Tuttle, *Department of Homeland Security*
- ▶ Mr. Kenneth Kepchar, *Federal Aviation Administration*
- ▶ Mr. Steven Kapurch, *NASA*

10:00 AM - 10:30 AM

10:30 AM - 12:00 PM

### PLENARY SESSION 2

### BAYVIEW BALLROOM

**Morning Break in the Regatta Pavilion**

**Plenary Session**

#### PROGRAM MANAGER'S PANEL

*Practical Systems Engineering: Perspective from the Program Office Frontline*

**Moderator:** Col Donald W. Robbins, USAF, *Military Assistant, Deputy Assistant Secretary of Defense (Systems Engineering), Office of the Assistant Secretary of Defense (Research and Engineering)*

#### Panelists:

- ▶ Mr. Jeff Stevens, *Integrated Air and Missile Defense Project Office*
- ▶ Mr. Steven Lose, *Remote Minehunting System (RMS)*
- ▶ Mr. Bob Poor, *Distributed Common Ground System - Navy (DCGS-N)*
- ▶ Col Robert Newberry, USAF, *Chief, SBIRS Replenishment Division*

12:00 PM - 1:30 PM

1:30 PM - 3:00 PM

### PLENARY SESSION 3

### BAYVIEW BALLROOM

**Luncheon in the Regatta Pavillion**

**Plenary Session**

#### INDUSTRY SYSTEMS ENGINEERING PANEL

*Effective Systems Engineering to Improve Program Performance*

**Moderator:** Mr. Bob Rassa, *Director, Engineering Programs, Raytheon Space & Airborne Systems; Chair, NDIA Systems Engineering Division*

#### Panelists:

- ▶ Mr. Chris Orłowski, *Corporate Director, Engineering, Northrop Grumman*
- ▶ Mr. Craig Miller, *Vice President, Systems Engineering, Harris Corporation*
- ▶ Mr. Daniel Dechant, *Chief Systems Engineer, Corporate Engineering, Raytheon Company*
- ▶ Mr. Gerald Nifontoff, *Chief Systems Engineer, Naval Systems, SAIC*
- ▶ Mr. Frank Serna, *Vice President, Systems Engineering, CS Draper Laboratory*

3:00 PM - 3:30 PM

**Afternoon Break in the Regatta Pavilion**



# TUESDAY, OCTOBER 25, 2011

TRACK	SESSION CHAIRS	3:30 PM - 4:05 PM	4:05 PM - 4:40 PM	4:40 PM - 5:15 PM
<b>TRACK1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>13075 Panel - "Systems Engineering Program Metrics"</b> <b>Moderators:</b> Mr. James Thompson, <i>DASD(SE)</i> ; Mr. Garry Roedler, <i>Lockheed Martin Corporate Engineering</i> ▶ Mr. Craig Miller, <i>Harris Corporation</i> ▶ Mr. Edward Moshinsky, <i>Lockheed Martin Corporate Engineering</i> ▶ Mr. Steve Henry, <i>Northrop Grumman Information Systems</i> ▶ Mr. Daniel Dechant, <i>Raytheon Corporate Engineering</i> ▶ Ms. Christi Gau Pagnanelli, <i>The Boeing Company</i>		
<b>TRACK 2 BAYVIEW 2 NET-CENTRIC OPERATIONS/ INTEROPERABILITY</b>	Mr. Jack Zavin, <i>ASD(NII)/DoD CIO</i> ; Mr. Robert Kruse, <i>FacetApp LLC</i> ; Mr. Brian Vernelson, <i>Booz Allen Hamilton</i>	<b>13102 - "Beyond Technical Interoperability"</b> Mr. Jack Zavin, <i>ASD(NII)/ DoD CIO</i>	<b>12940 - "The Way Forward to Achieve Net Centric Interoperability"</b> Mr. Anthony Devino, <i>ASN RDA CHSENG</i>	<b>13077 - "DoD Architecture &amp; Standards Key to Mission Accomplishment"</b> Mr. Al Mazyck, <i>Department of Defense, CIO Office</i>
<b>TRACK 3 BAYVIEW 3 SYSTEM OF SYSTEMS</b>	Dr. Judith Dahmann, <i>The MITRE Corporation</i> ; Mr. John Palmer, <i>The Boeing Company</i>	<b>13183 - "Impact of Systems of Systems on Acquisition Programs"</b> Dr. Judith Dahmann, <i>The MITRE Corporation</i>	<b>13207 - "Performance Prediction and Methodology for Monitoring PARMs in a SoS Development"</b> Ms. Carly Jackson; Mr. Rich Volkert, <i>SSC Pacific</i>	<b>13157 - "Adaptable System Integration On Multiple Platforms"</b> Mr. Timothy Palmer, <i>Georgia Tech Research Institute</i>
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING</b>	Mr. John Lohse, <i>Raytheon</i> ; Mr. Jeff Loren, <i>Alion Science &amp; Technology</i>	<b>13064 - "Development Planning Update: State of the Practice"</b> Mrs. Aileen Sedmak, <i>OSD(AT&amp;L), ODASD(SE)</i>	<b>13116 - "Industry's Pre-Milestone A SE Process: A Consolidated Industry Input"</b> Mr. John Lohse, <i>Raytheon</i>	<b>13200 - "Army Development Planning"</b> Mr. Philip Hudner, <i>U.S. Army - ASA(ALT) SoSE</i>
<b>TRACK 5 MISSION 2 MODELING &amp; SIMULATION</b>	Dr. James Coolahan, <i>Johns Hopkins University/Applied Physics Lab</i> ; Mr. Jeff Bergenthal, <i>Lockheed Martin</i>	<b>13584 Panel - "The Voice of the Customer - What Systems Engineers REALLY Want from the MS&amp;A Folks"</b> Mr. Kenneth Konwin, <i>Booz Allen Hamilton</i>		
<b>TRACK 6 MISSION 3 TEST &amp; EVALUATION ACQUISITION POLICIES</b>	Dr. Beth Wilson, <i>Raytheon</i> ; Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>	<b>13186 - "Development Test and Evaluation Committee: Collaboration and Alignment with Systems Engineering Division"</b> Dr. Beth Wilson, <i>Raytheon</i>	<b>12887 - "An Industry Response to the Acquisition Policies"</b> Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>	<b>13061 - "Homeland Security Commercial Test and Evaluation Approach"</b> Mr. Matthew Graviss, <i>DHS/ CBP/OTIA/SE</i>
<b>TRACK 7 PALM 1 ESOH</b>	Mr. Sherman Forbes, <i>SAF/AQRE</i>	<b>13230 - "Navy Environmental Readiness in Acquisition – Challenges and Successes in Integrating Environmental Considerations in the Analysis of Alternatives, System Design Specifications and Contracts"</b> Ms. Karrin Hoelsing, <i>Booz Allen Hamilton</i>	<b>13124 - "Environment, Safety, and Occupational Health (ESOH) Lessons Learned from DoD Acquisition Systems Engineering Program Support Reviews (PSRs)"</b> Mr. William Thacker, <i>Booz Allen Hamilton</i>	<b>13168 - "Educating the Workforce for Early Integration of ESOH/ System Safety into JCIDS and SE"</b> Ms. Karen Gill, <i>Booz Allen Hamilton</i>
<b>TRACK 8 PALM 2 CYBER</b>	Mr. Paul Croll, <i>CSC</i>	<b>13104 - "Comprehensive Program Protection Planning"</b> Mr. E. Kenneth HongFong, <i>ODASD(Systems Engineering)</i>	<b>13170 - "Software Sustainability – Challenges for Acquisition, Engineering, and Capability Delivery in the Face of the Growing Cyber Threat"</b> Mr. Paul Croll, <i>CSC</i>	<b>13591 - "Understanding Cyber Defense, a Systems Architecture Approach"</b> Mr. Thomas McDermott, <i>Georgia Tech Research Institute</i>

## TUESDAY, OCTOBER 25, 2011

TRACK	SESSION CHAIRS	3:30 PM - 4:05 PM	4:05 PM - 4:40 PM	4:40 PM - 5:15 PM
<b>TRACK 9 MARINER POINT MATURITY PLANNING</b>	Mr. William Nolte, <i>Air Force Research Laboratory</i> ; Dr. James Malas, <i>Air Force Research Laboratory</i>	<b>13131</b> - "Limitations of Readiness Levels" Dr. James Malas, <i>Air Force Research Laboratory</i>	<b>13136</b> - "Looking at the Full Picture: Evaluating Alternatives with the Execution Risk Assessment Framework" Mr. Robert Henry, <i>The MITRE Corporation</i>	<b>12964</b> - "Adopting a Technology Development and Maturity Assessment Methodology" Mr. Jeff Craver, <i>Defense Acquisition University</i>
<b>TRACK 10 CROWN POINT LOGISTICS</b>	Mr. Joel Moorvitch, <i>Raytheon Company</i>	<b>13057</b> - "Institutionalizing Reliability and Maintainability (R&M) Engineering in the DoD: A Total Program Implementation Approach" Mr. Andrew Monje, <i>DASD (SE)</i>	<b>13012</b> - "Utilizing Robust Design and Design for Producibility for Development of Defense Products" Dr. Brady Davies, <i>L-3 Communications</i>	<b>13219</b> - "Designing Lean Systems Engineering Processes and Procedures to Save Time and Money" Mr. Tim Olson, <i>Lean Solutions Institute, Inc.</i>
<b>5:15 PM - 6:30 PM WELCOME RECEPTION IN REGATTA PAVILION</b>				

## WEDNESDAY, OCTOBER 26, 2011

7:00 AM - 5:50 PM

Registration in Bayview Foyer

7:00 AM - 8:00 AM

Continental Breakfast in Regatta Pavilion

8:00 AM - 5:50 PM

Concurrent Sessions

TRACK	SESSION CHAIRS	8:00 AM - 8:35 AM	8:35 AM - 9:10 AM	9:10 AM - 9:45 PM
<b>TRACK 1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>13302</b> - "System Development Performance Measurement" Mr. Garry Roedler, <i>Lockheed Martin</i>	<b>13096</b> - "Update on Systems Engineering Policy and Guidance" Mr. Nicholas Torelli, <i>OSD</i>	<b>12971</b> - "A Check Six Principle Primer for Acquisition Executives" Mr. Charles Garland, <i>Air Force Center for Systems Engineering</i>
<b>TRACK 2 BAYVIEW 2 NET-CENTRIC</b>	Mr. Jack Zavin, <i>ASD(NII)/DoD CIO</i> ; Mr. Robert Kruse, <i>FacetApp LLC</i> ; Mr. Brian Virnelson, <i>Booz Allen Hamilton</i>	<b>13173</b> - "Architecture-enabled Systems Engineering: Applying DoDAF to Legacy Systems" Mr. Richard Sorensen, <i>Kihomac</i>	<b>13059</b> - "Joint Interoperability Test Certification - Evolving the Net Ready-Key Performance Parameter (NR-KPP) and Provisioning Infrastructure to Support Department of Defense (DoD) Agile Acquisition Reform" Mr. Alan Rieffer, <i>Joint Interoperability Test Command</i>	<b>12939</b> - "Net-Ready Key Performance Parameter Architecture Evaluation Tool" Ms. Elizabeth O'Keefe, <i>Raytheon Missile Systems</i>
<b>TRACK 3 BAYVIEW 3 SYSTEM OF SYSTEMS</b>	Dr. Judith Dahmann, <i>The MITRE Corporation</i> ; Mr. John Palmer, <i>The Boeing Company</i>		<b>13635</b> - "Mobile Distributed C4ISR Architecture (MDCA)" Mr. William Shepard, <i>USSOCOM</i>	<b>13067</b> - "A Scientific Approach to Consistent Functional Analysis: The System Capabilities Analytic Process" Mr. Kevin Agan, <i>Army Research Laboratory</i>
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING</b>	Mr. John Lohse, <i>Raytheon</i> ; Mr. Jeff Loren, <i>Alion Science &amp; Technology</i>	<b>13278</b> - "MORS Risk, Trade Space and Analytics in Acquisition Workshop: MORS Developmental Planning and Early System Engineering Efforts Working Group Results" Mr. Kirk Michealson, <i>Lockheed Martin</i>	<b>13031</b> - "Modeling and Simulation in Development Planning" Mr. Jeff Loren, <i>SAF/AQRE (Alion Science &amp; Technology)</i>	<b>13014</b> - "Early Development Planning Leads to Affordable Systems" Mr. Charles Kondrack, <i>Advatech Pacific Inc.</i>

## WEDNESDAY, OCTOBER 26, 2011

TRACK	SESSION CHAIRS	8:00 AM - 8:35 AM	8:35 AM - 9:10 AM	9:10 AM - 9:45 PM
<b>TRACK 5 MISSION 2 MODELING &amp; SIMULATION IN ACQUISITION</b>	Dr. James Coolahan, <i>Johns Hopkins University/Applied Physics Lab</i> ; Mr. Jeff Bergenthal, <i>Lockheed Martin</i>	<b>13181</b> - "Framework for Assessing Cost and Technology: Integrating M&S into Ground Vehicle Acquisition" Mr. Michael O'Neal, <i>Marine Corps Systems Command</i>	<b>13048</b> - "Modeling & Simulation for Affordable System Acquisition" Mr. Charles Kondrack, <i>Advatech Pacific Inc.</i>	<b>13024</b> - "Can Anyone Really Model DoD Space Acquisitions?" Maj Chad Searle, USAF, <i>AFIT/ENV</i>
<b>TRACK 6 MISSION 3 INTEGRATED TEST STRATEGIES</b>	Mr. Howard Savage, <i>SCI</i> ; Mr. Chris Reisig; <i>The Boeing Company</i>	<b>12944</b> - "Section 804 Accelerated Test Evaluation and Certification: What is it and How Will It Impact IT Acquisitions?" Mr. Peter Christensen, <i>The MITRE Corporation</i>	<b>12943</b> - "Measuring the Value of Test and Evaluation Using Uncertainty Reduction" Ms. Eileen Bjorkman, <i>Air Force Flight Test Center</i>	<b>13056</b> - "Integrated Planning for F-35 Mission Systems Flight Test" Mr. Brendan Rhatigan, <i>Lockheed Martin</i>
<b>TRACK 7 PALM 1 ESOH</b>	Mr. Sherman Forbes, <i>SAF/AQRE</i>	<b>13149</b> - "Acquisition ESOH: Now & In The Future" Mr. David Asiello, <i>ODUSD(I&amp;E)</i>	<b>13228</b> - "Department of Navy Environmental Sustainment in Acquisition - Planning and Preparing for Sustainable Compliance and Readiness" Mr. James Rudroff, <i>Department of Navy</i>	<b>13070</b> - "DoD Acquisition Documentation Streamlining and the PESHE" Mr. Jefferson Walker, <i>Booz Allen Hamilton</i>
<b>TRACK 8 PALM 2 CYBER</b>	Mr. Paul Croll, <i>CSC</i>	<b>13144</b> - "Cyber Failure Modes, Effects and Criticality Analysis (CFMECA)" Mr. Jess Granone, <i>Granone Consulting LLC</i>	<b>13086</b> - "Cyber Security Controls Assessment: A Critical Discipline of Systems Engineering" Mr. Bharat Shah, <i>Lockheed Martin IS&amp;GS-Civil</i>	<b>13175</b> - "Systems Engineering for Cyber- Physical Products" Mr. Bernard Clark, <i>Dassault Systèmes</i>
<b>TRACK 9 MARINER POINT TECH MATURITY - READINESS LEVELS</b>	Mr. William Nolte, <i>Air Force Research Laboratory</i> ; Dr. James Malas, <i>Air Force Research Laboratory</i>	<b>13132</b> - "Readiness Level Proliferation" Mr. William Nolte, <i>Air Force Research Laboratory</i>	<b>12956</b> - "Manufacturing Readiness Levels: An Essential SE Tool to Identify and Manage Manufacturing Risk for Affordability" Dr. Thomas Christian, <i>Air Force Center for System Engineering</i>	<b>13041</b> - "Vector-Based Metrics for Assessing Technology Maturity" Dr. Gerard Sleefe, <i>Sandia National Laboratories</i>
<b>TRACK 10 CROWN POINT LOGISTICS</b>	Mr. Joel Moorvich, <i>Raytheon</i>	<b>13192</b> - "Model-Based Business Case Analysis (BCA) of Condition Based Maintenance Plus (CBM+) Investments" Mr. David Wood, <i>Frontier Technology, Inc.</i>		<b>13000</b> - "Risk Evaluation When Negotiating PBL Contracts" Mr. Robert Hell, <i>Systecon AB</i>
TRACK	SESSION CHAIRS	10:15 AM - 10:50 AM	10:50 AM - 11:25 AM	11:25 AM - 12:00 PM
<b>TRACK 1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>13097</b> - "Streamlining Acquisition Documents: New Systems Engineering Plan Outline" Mr. Nicholas Torelli, <i>OSD</i>	<b>12991</b> - "WSARA Implementation - GAO's Perspective on Military Service Challenges" Ms. Cheryl Andrew, <i>U.S. Government Accountability Office</i>	<b>13164</b> - "A Status Report- Progress and Challenges to Improving AF Acquisition by Using SE Standard Practice Standards" Mr. Chris Ptachik, <i>SAF/ AQR (Alion Science &amp; Technology)</i>
<b>TRACK 2 BAYVIEW 2 NET-CENTRIC</b>	Mr. Jack Zavin, <i>ASD(NII)/DoD CIO</i> ; Mr. Robert Kruse, <i>FacetApp LLC</i> ; Mr. Brian Vinnelson, <i>Booz Allen Hamilton</i>	<b>12955</b> - "From Analog to Digital - Global Earth Observation and International Collaboration to Manage Mega Disasters" Dr. Janice Ziarko, <i>The MITRE Corporation</i>	<b>12899</b> - "What's Out There and Where Do I Find it: Enterprise Metacard Builder Resources Portal" Dr. Gary Allen, <i>U.S. Army</i>	<b>13079</b> - "Data Fusing Maritime Sensors from National, Tactical, and Unmanned Aerial Systems" Dr. James Wilson, <i>Jove Sciences, Inc.</i>

## WEDNESDAY, OCTOBER 26, 2011

TRACK	SESSION CHAIRS	10:15 AM - 10:50 AM	10:50 AM - 11:25 AM	11:25 AM - 12:00 PM
<b>TRACK 3 BAYVIEW 3 AFFORDABILITY</b>	Mr. Joel Moorvitch, <i>Raytheon Company</i> ; Mr. Gene Rosenbluth, <i>Northrop Grumman Information Systems</i>	<b>13521</b> - "2011 NDIA Affordability Working Group Report" Mr. Frank Serna, <i>Draper Laboratory</i>		<b>13076</b> - "Targeting Affordability and Controlling Cost Growth through Should-Cost Analysis" Mr. Anthony DeMarco, <i>PRICE Systems, LLC</i>
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING</b>	Mr. John Lohse, <i>Raytheon</i> ; Mr. Jeff Loren, <i>Alion Science &amp; Technology</i>	<b>13110</b> - "Systems Engineering Principles in Air Force IR&D Process" Dr. James Malas, <i>Air Force Research Laboratory</i>	<b>13138</b> - "Systems Engineering Approach to Technology Integration" Mr. James McGillicuddy, <i>IMSolutions, LLC</i>	<b>13021</b> - "Risk in Science and Technology (S&T)" Mr. Thomas Archer, <i>SynGenics Corporation</i>
<b>TRACK 5 MISSION 2 MBE/MBSE</b>	Dr. James Coolahan, <i>Johns Hopkins University/Applied Physics Lab</i> ; Mr. Jeff Bergenthal, <i>Lockheed Martin</i>	<b>12953</b> - "Final Report of the Model Based Engineering Subcommittee" Mr. Jeff Bergenthal, <i>Lockheed Martin Global Training and Logistics</i>	<b>13262</b> - "RoI Estimates from SAVI's Feasibility Demonstration" Dr. Donald Ward, <i>AVSI</i>	<b>12881</b> - "Models as a Foundation for Systems Engineering – Should We Expect a Breakthrough?" Mr. Brett Malone, <i>Vitech Corporation</i>
<b>TRACK 6 MISSION 3 JOINT TEST/SOS/ NET</b>	Dr. Beth Wilson, <i>Raytheon</i> ; Dr. Judith Dahmann, <i>The MITRE Corporation</i>	<b>13187</b> - "Update on Test and Evaluation Issues for Systems of Systems" Dr. Beth Wilson, <i>Raytheon</i>		<b>13062</b> - "Joint Interoperability Test Command (JITC): Providing Agile Test and Evaluation in Support of Converged Networked Services" Mr. Richard Delgado, <i>Joint Interoperability Test Command</i>
<b>TRACK 7 PALM 1 ESOH</b>	Mr. Sherman Forbes, <i>SAF/AQRE</i>	<b>13069</b> - "Fluency in Risk Management: DoD Acquisition Risk Management, MIL-STD-882D, ANSI-GEIA-STD-0010, and ISO 31000 - All the Same, Only Different?" Mr. Kenneth Dormer, <i>SAF/AQRE</i>	<b>13638</b> - "Status of the multi-year effort to revise MIL-STD-882D, DoD Standard Practice for System Safety" Mr. Jefferson Walker, <i>SAF/AQRE</i>	<b>13063</b> - "Integrating ESOH Using System Safety" Mr. Kenneth Dormer, <i>SAF/AQRE</i>
<b>TRACK 8 PALM 2 SOFTWARE INTENSIVE SYSTEMS</b>	Mr. Paul Croll, <i>CSC</i> ; Mr. Mike McLendon, <i>OSD AT&amp;L DDR&amp;E M&amp;SCO</i>	<b>13196</b> - "Towards Integrated Systems and Software Engineering Standards" Mr. Garry Roedler, <i>Lockheed Martin</i>	<b>13160</b> - "A Fresh Look at the Software Technical Review Process" Dr. William Bail, <i>The MITRE Corporation</i>	<b>12951</b> - "The Waterfall Model – What It Is Not and Has Never Been..." Dr. Peter Hantos, <i>The Aerospace Corporation</i>
<b>TRACK 9 MARINER POINT TECH MATURITY - LESSONS LEARNED</b>	Mr. William Nolte, <i>Air Force Research Laboratory</i> ; Dr. James Malas, <i>Air Force Research Laboratory</i>	<b>13053</b> - "Update to ISO TRL Standard" Mr. James Bilbro, <i>JB Consulting International</i>		<b>13198</b> - "Lessons Learned In Performing Technology Maturity Assessment for a Milestone B Review of an Acquisition Category Vehicle Program" Mr. Jerome Tzau, <i>U.S. Army TARDEC</i>
<b>TRACK 10 CROWN POINT LOGISTICS</b>	Mr. Joel Moorvitch, <i>Raytheon Company</i>	<b>13557</b> - "Applying Systems Engineering to Reduce Sustainment Cost for Legacy Systems" Mr. Chuck Coogan, <i>Acquisition Logistics Engineering</i>	<b>13171</b> - "Advanced Mission Module Autonomy" Mr. Robert Gibson, <i>Naval Surface Warfare Center</i>	<b>13147</b> - "An Application in Technology Insertion for a Legacy System" Mr. Jimmy Simmons, <i>Georgia Tech Research Institute</i>



## WEDNESDAY, OCTOBER 26, 2011

**12:00 PM - 1:30 PM AWARDS LUNCHEON IN REGATTA PAVILION**  
**DOD SYSTEMS ENGINEERING TOP 5 PROGRAM AWARD WINNERS**

ENTERPRISE BUSINESS SYSTEMS PROGRAM

- ▶ *Department of the Air Force, Jacobs Technology/TYBRIN GROUP*

CH-53K HEAVY LIFT REPLACEMENT HELICOPTER PROGRAM

- ▶ *Department of the Navy, Sikorsky Aircraft Corporation*

ADVANCED EXPLOSIVE ORDNANCE DISPOSAL ROBOTIC SYSTEM PROGRAM

- ▶ *Department of the Navy, Johns Hopkins University Applied Physics Laboratory*

CHINOOK CH-47 MULTI-YEAR I PROGRAM

- ▶ *Department of the Army, The Boeing Company*

ARMY INTEGRATED AIR AND MISSILE DEFENSE PROGRAM

- ▶ *Department of the Army, Northrop Grumman Corporation*

**2011 LIEUTENANT GENERAL THOMAS R. FERGUSON, JR. SYSTEMS ENGINEERING AWARDS**

INDIVIDUAL LEADERSHIP AWARD

- ▶ *Captain Thomas Heatter, USN*

GROUP AWARD

- ▶ *National Reconnaissance Office Launch Team*

TRACK	SESSION CHAIRS	1:30 PM - 2:05 PM	2:05 PM - 2:40 PM	2:40 PM - 3:15 PM	3:15 PM - 3:50 PM
<b>TRACK 1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>13095</b> - "Writing Requirements Properly" Mr. Al Florence, <i>The MITRE Corporation</i>		<b>12958</b> - "Systems Engineering: The Key to Successful Outcomes" Mr. Mark Wilson, <i>Strategy Bridge International, Inc.</i>	<b>13165</b> - "Functional Decomposition, Uses and Misuses" Mr. David Minchala, <i>U.S. Army</i>
<b>TRACK 2 BAYVIEW 2 JOINT NET/SOS</b>	Mr. Jack Zavin, <i>ASD(NII)/ DoD CIO</i> ; Dr. Judith Dahmann, <i>The MITRE Corporation</i>	<b>13009</b> - "ASW Net-Centric Systems Engineering and the ASW Common Data Model (ACDM)" Ms. Colleen Cannon, <i>PEO IWS</i>	<b>13101</b> - "Examining the Role of Context in Data Interoperability" Mr. James Smith, <i>Software Engineering Institute</i>	<b>13011</b> - "The NextGen Interagency Experimentation Hub: Cross- Boundary Information Sharing Services for Distributed Aviation Experimentation" Mr. Douglas Flournoy, <i>The MITRE Corporation</i>	<b>13618</b> - "Describing Value-Add of Semantic Web Design Using a Practical Interoperability Scale" Mr. Robert Kruse, <i>FacetApp LLC</i>
<b>TRACK 3 BAYVIEW 3 AFFORDABILITY</b>	Mr. Joel Moorvitch, <i>Raytheon Company</i> ; Mr. Gene Rosenbluth, <i>Northrop Grumman Information Systems</i>	<b>13119</b> - "Systems Engineering Return on Investment" Mr. Eric Honour, <i>Honourcode, Inc.</i>	<b>12945</b> - "Modeling Resource Allocation and Methods Engineering Toward Optimizing Productivity and ROI" Mr. Zachary Parker, <i>TSI</i>	<b>13191</b> - "The Hidden Impacts of Producibility on System Affordability and Design Manufacturing Interdependence" Dr. Al Sanders, <i>Honeywell Aerospace</i>	

## WEDNESDAY, OCTOBER 26, 2011

TRACK	SESSION CHAIRS	1:30 PM - 2:05 PM	2:05 PM - 2:40 PM	2:40 PM - 3:15 PM	3:15 PM - 3:50 PM
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING</b>	Mr. John Lohse, <i>Raytheon</i> ; Mr. Jeff Loren, <i>Alion Science &amp; Technology</i>	<b>13125</b> - "Reconsidering Requirements Development: A Case for Time-Phased Requirements" Dr. Frank Swehosky, <i>Lockheed Martin</i>	<b>13078</b> - "Critical Success Factors for Rapid, Innovative Engineering Solutions" Dr. Jo Ann Lane, <i>University of Southern California</i>	<b>13112</b> - "System Analysis to Support Acquisition Planning and the Tailoring of Systems Engineering Efforts" Mr. Dennis Baker, <i>Customs and Border Protection</i>	<b>13190</b> - "Berlin Airlift - A Systems Engineering Case Study" Dr. Carlee Bishop, <i>Georgia Tech Research Institute</i>
<b>TRACK 5 MISSION 2 MBE/MBSE</b>	Dr. James Coolahan, <i>Johns Hopkins University/ Applied Physics Lab</i> ; Mr. Jeff Bergenthal, <i>Lockheed Martin</i>	<b>13129</b> - "Bridging the Information Gap Between Diverse Modeling and Simulation Tools" Dr. Nadine Miner, <i>Sandia National Laboratories</i>	<b>13141</b> - "Model Based Systems Engineering (MBSE) Business Case Considerations - An Enabler of Risk Reduction" Mr. Peter Lierni, <i>High Performance Technologies Inc</i>	<b>13154</b> - "Executable Architectures in Model-based Systems Engineering" Mr. Matthew Hause, <i>Atego</i>	
<b>TRACK 6 MISSION 3 EFFECTIVE TEST &amp; EVALUATION</b>	Dr. Beth Wilson, <i>Raytheon</i> ; Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>	<b>13058</b> - "Coalition Interoperability Assurance & Validation (CIAV) and Coalition Test & Evaluation Environment (CTE2)-A Model for Coalition Interoperability in a Distributed Construct" Mr. Todd Rissinger, <i>Joint Interoperability Test Command</i>	<b>13035</b> - "The Effective Use & Benefits of Systems Integration in DOD and ATC Test and Evaluation" Mr. Robert Koczkat, <i>The Spectrum Group</i>		
<b>TRACK 7 PALM 1 ESOH</b>	Mr. Sherman Forbes, <i>SAF/AQRE</i>	<b>13184</b> - "Sustainable Painting Operations for the Total Army: Success!" Mr. Patrick Taylor, <i>Hughes Associates, Inc.</i>	<b>13266</b> - "Hexavalent Chromium Substitution Projects Conducted by Aeronautical Systems Center Environmental and Health Risk Management Branch (ASC/WNV), Wright-Patterson AFB" Mr. Gene McKinley, <i>U.S. Air Force</i>	<b>13232</b> - "Nitrotriazolone and IMX: Environmental Issues Surrounding the Development and Deployment of the Next Generation of Insensitive American Munitions" Mr. Robert Winstead, <i>BAE Systems</i>	<b>13120</b> - "Joint Service Safety Testing Requirements" Mr. Robert Mirick, <i>Booz Allen Hamilton</i>
<b>TRACK 8 PALM 2 SOFTWARE INTENSIVE SYSTEMS</b>	Mr. Paul Croll, <i>CSC</i> ; Mr. Mike McLendon, <i>OSD AT&amp;L DDR&amp;E M&amp;SCO</i>	<b>13161</b> - "Scalable Network Effects Protection Tailored to Unique Naval Engagements (NEPTUNE™) - A Systems Engineering Approach to Integrated Waterside Security" Mr. David Castellano, <i>U.S. Army ARDEC</i>	<b>13239</b> - "Extending the Agile SCRUM Development Process for Modeling and Simulation System Integration Projects: An Initiative at the ARMY Game Studio" Dr. Craig Eichelkraut, <i>SAIC</i>	<b>13109</b> - "Recovering from a Chaotic Agile Development Effort" Mr. William Wood, <i>CMU/SEI</i>	<b>13153</b> - "Institutionalizing Model-Based Systems and Software Engineering Methods for DoD Systems Development: An Initiative at the U.S. Army Aviation and Missile Research, Development, and Engineering Center" Mr. Michael Gully, <i>U.S. Army AMRDEC Software Engineering Directorate</i>

## WEDNESDAY, OCTOBER 26, 2011

TRACK	SESSION CHAIRS	1:30 PM - 2:05 PM	2:05 PM - 2:40 PM	2:40 PM - 3:15 PM	3:15 PM - 3:50 PM
<b>TRACK 9 MARINER POINT TECH MATURITY - METRICS</b>	Mr. William Nolte, <i>Air Force Research Laboratory</i> ; Dr. James Malas, <i>Air Force Research Laboratory</i>	<b>13216</b> - "Lean Systems Engineering Metrics" Mr. Tim Olson, <i>Lean Solutions Institute, Inc.</i>	<b>12973</b> - "Why Affordability is a Systems Engineering Metric" Mr. Quentin Redman, <i>Price Systems, LLC</i>	<b>13166</b> - "Systems Engineering and the Forgotten '-Illities'" Mr. James Willis, <i>SPEC Innovations</i>	
<b>TRACK 10 CROWN POINT LOGISTICS</b>	Mr. Joel Moorvich, <i>Raytheon</i>	<b>13002</b> - "Engineering Practices and Patterns for Rapid Built-In Test (BIT) Evolution" Mr. James Brewer, <i>Raytheon Missile Systems</i>	<b>13039</b> - "Cost Effectively Maintaining Legacy Systems Using GEM (Generalized Emulation of Microcircuits)" Mr. Allan Schlier, <i>DLA Land and Maritime</i>	<b>13115</b> - "An AGILE Approach to Tactical Data Link Testing - The JITC Automated Test Case Generator" Mr. Robin Murray, <i>Joint Interoperability Test Command</i>	<b>13167</b> - "A Test Support Tool" Mr. Louis Miller, <i>Telcordia Technologies</i>
		<b>3:50 PM - 4:20 PM</b>	<b>AFTERNOON BREAK IN REGATTA PAVILION</b>		
		<b>4:20 PM - 5:20 PM</b>	<b>KEYNOTE ADDRESS IN REGATTA PAVILION</b>		
Honorable Zachary Lemnios, <i>Assistant Secretary of Defense for Research &amp; Engineering, Department of Defense</i>					
		<b>5:20 PM</b>	<b>ADJOURN</b>		

# THURSDAY, OCTOBER 27, 2011

7:00 AM - 3:30 PM

Registration in Bayview Foyer

7:00 AM - 8:00 AM

Continental Breakfast in Regatta Pavilion

8:00 AM - 3:30 PM

Concurrent Sessions

TRACK	SESSION CHAIRS	8:00 AM - 8:35 AM	8:35 AM - 9:10 AM	9:10 AM - 9:45 AM
<b>TRACK 1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>13588</b> - "Status of the NDIA / IEEE / INCOSE Systems Engineering Effectiveness Study" Mr. Joseph Elm, <i>Carnegie Mellon University</i>	<b>13178</b> - "Systems Engineering Best Practices for Quick Reaction Weapon Programs" Mr. Frank Robbins, <i>NDIA Gulf Coast Chapter</i>	<b>13007</b> - "Best Practices for Systems Integration Involving Quick Reaction Capabilities" Mr. Pete Houser, <i>Northrop Grumman</i>
<b>TRACK 2 BAYVIEW 2 JOINT NET/SOS</b>	Mr. Jack Zavin, <i>ASD(NII)/DoD CIO</i> ; Dr. Judith Dahmann, <i>The MITRE Corporation</i>		<b>13199</b> - "Engineering the Army Common Operating Environment" Ms. Monica Farah-Stapleton, <i>Army ASA(ALT)SoSE</i>	<b>13202</b> - "Restructuring the Army Systems Architecture Processes & Products and Realizing their Value" Mr. David Poole, <i>ASA(ALT) SoSE</i>
<b>TRACK 3 BAYVIEW 3 PROGRAM MANAGEMENT</b>	Mr. Gene Rosenbluth, <i>Northrop Grumman Information Systems</i>	<b>12932</b> - "DoD Is Not Handling Program Risk Properly, or Why so Many DoD Programs have Dramatic Increases in Cost & Schedule" Dr. Donald McKeon, <i>Defense Acquisition University</i>	<b>12983</b> - "Acquisition Reform: Integrate Technical Performance with Earned Value Management (EVM)" Mr. Paul Solomon, <i>Performance-Based Earned Value</i>	<b>13123</b> - "The MITRE-Aerospace Critical Factors for Acquisition Success Checklist" Dr. Robert Swarz, <i>The MITRE Corporation</i>
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING</b>	Mr. John Lohse, <i>Raytheon</i> ; Mr. Jeff Loren, <i>Alion Science &amp; Technology</i>	<b>12998</b> - "Systems Engineering in Early Development Planning for the Automated Aerial Refueling (AAR) Project" Ms. Carol Ventresca, <i>SynGenics Corporation</i>	<b>13188</b> - "Systems Engineering Applied to Decision Making" Mr. Randall Saifer, <i>SAIC</i>	<b>13006</b> - "Effectiveness of Systems Engineering Tailored for the Science and Technology (S&T) Environment: Improvement of USAF Airdrop Accuracy" Ms. Carol Ventresca, <i>SynGenics Corporation</i>
<b>TRACK 5 MISSION 2 MODELING &amp; SIMULATION</b>	Dr. James Coolahan, <i>Johns Hopkins University/Applied Physics Lab</i> ; Mr. Jeff Bergenthal, <i>Lockheed Martin</i>	<b>12948</b> - "A Methodology for Designing Modeling and Simulation (M&S) that Integrates Verification, Validation, and Accreditation (VV&A) Processes and Documentation" Ms. Nancy Gould, <i>Naval Air Systems Command</i>	<b>13197</b> - "Resilient and Agile Engineering Attributes: A Modeling Examination" Mrs. Yvette Rodriguez, <i>Defense Acquisition University/USC</i>	<b>12961</b> - "Practical SysML Applications: A Method to Capture the Problem Space" Mr. Raymond Jorgensen, <i>Rockwell Collins</i>
<b>TRACK 6 MISSION 3 EFFECTIVE TEST &amp; EVALUATION</b>	Dr. Beth Wilson, <i>Raytheon</i> ; Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>	<b>12986</b> - "Biometrics and Systems Engineering: Delivering Mission Capability to the Warfighter" Dr. Suzanne Strohl, <i>Test Resource Management Center (OSD/IAT&amp;L)</i>	<b>12967</b> - "Aligning System Development and Testing for Successful IOT&E" Mr. Vincent Roske, <i>Institute for Defense Analyses</i>	<b>12988</b> - "A Study on Design of Range Reduction Dummy Fuze for the Efficiency of Acceptance Test" Mr. Hae-Suk Lee, <i>Agency for Defense Development</i>
<b>TRACK 7 PALM 1 ESOH</b>	Mr. Sherman Forbes, <i>SAF/AQRE</i>	<b>12981</b> - "U.S. Air Force ESOH Lessons Learned for MRAP Vehicles" Dr. Douglas Parrish, <i>Booz Allen Hamilton</i>	<b>12942</b> - "DOTMLP (The Lost Art of Facility Systems Engineering)" Mr. Craig Amundson, <i>Cask, LLC</i>	
<b>TRACK 8 PALM 2 SOFTWARE INTENSIVE SYSTEMS</b>	Mr. Paul Croll, <i>CSC</i> ; Mr. Mike McLendon, <i>OSD AT&amp;L DDR&amp;E M&amp;SCO</i>	<b>12960</b> - "Product Family Engineering: Enabling Shared Use of Product Definition" Mr. Raymond Jorgensen, <i>Rockwell Collins</i>	<b>13030</b> - "Patterns and Pattern Languages for Systems of Systems" Mr. William Wood, <i>CMU/SEI</i>	<b>12890</b> - "A Modest Proposal" Mr. Donald Beckett, <i>Quantitative Software Management</i>



## THURSDAY, OCTOBER 27, 2011

<b>TRACK 9 MARINER POINT WORK FORCE DEVELOPMENT</b>	Dr. John Snoderly, <i>Defense Acquisition University</i> ; Mr. Garry Roedler, <i>Lockheed Martin Corporate Engineering</i>		<b>13045</b> - "SE Workforce Development and the Systems Engineering Body of Knowledge" Dr. Alice Squires, <i>Stevens Institute of Technology</i>	<b>13066</b> - "Debunking the Myths of Knowledge Transfer" Ms. Patricia Scaramuzzo, <i>Lockheed Martin</i>
<b>TRACK 10 CROWN POINT ARCHITECTURE</b>	Ms. Barbara Sheeley, <i>The Boeing Company</i>	<b>13020</b> - "Object Driven Systems Engineering" Mr. Pradeep Mendonza, <i>U.S. Army - TARDEC</i>	<b>13176</b> - "Collaborative Development of Systems Architecting Design Rules" Mr. Tom McDermott, <i>Georgia Tech Research Institute</i>	<b>12996</b> - "Stakeholder Interrelations: A Fit-For-Purpose DoDAF View" Mr. John Wood, <i>George Washington University</i>
<b>9:45 AM - 10:15 AM MORNING BREAK IN REGATTA PAVILION</b>				
<b>TRACK</b>	<b>SESSION CHAIRS</b>	<b>10:15 AM - 10:50 AM</b>	<b>10:50 AM - 11:25 AM</b>	<b>11:25 AM - 12:00 PM</b>
<b>TRACK 1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>13044</b> - "IEDs on the Road to Acquisition and Sustainment of Weapon Systems" Mr. Mike Uchino, <i>AF Center for Systems Engineering</i>	<b>12883</b> - "Systems Engineering Impact of the Rapid Acquisition of IT Systems in Support of Public Law 111" Dr. Kenneth Nidiffer, <i>Software Engineering Institute</i>	<b>13074</b> - "A Systematic Requirements Definition Methodology" Dr. Robert Monson, <i>Lockheed Martin</i>
<b>TRACK 2 BAYVIEW 2 JOINT NET/SOS</b>	Mr. Jack Zavin, <i>ASD(NII)/DoD CIO</i> ; Dr. Judith Dahmann, <i>The MITRE Corporation</i>	<b>13242</b> - "Application of a Capability Based Portfolio Assessment (CBPA) to the Marine Corps Systems Command Handheld Command and Control Situational Awareness (H2C2 SA) Portfolio" Ms. Jeannette Evans-Morgis, <i>Marine Corps Systems Command</i>	<b>13032</b> - "Enabling Success in IT Intensive Acquisitions: Bootstrapping Grass-Roots Success" Mr. George Rebovich, <i>The MITRE Corporation</i>	<b>13134</b> - "System Interoperability Influence on System of Systems Engineering Effort" Dr. Jo Ann Lane, <i>University of Southern California</i>
<b>TRACK 3 BAYVIEW 3 PROGRAM MANAGEMENT</b>	Mr. Gene Rosenbluth, <i>Northrop Grumman Information Systems</i>	<b>13235</b> - "Risks, Issues and Lessons Learned: Maximizing Risk Management in the DoD Ground Domain" Ms. Lisa Graf, <i>U.S. Army</i>	<b>13117</b> - "Realizing the Full Potential of Integrated Technical Planning" Mr. Robert Scheurer, <i>The Boeing Company</i>	<b>13072</b> - "PEO GCS Baseline Program Timeline Analysis" Ms. Leslie Polsen, <i>Program Executive Office, Ground Combat Systems</i>
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING</b>	Mr. John Lohse, <i>Raytheon</i> ; Mr. Jeff Loren, <i>Alion Science &amp; Technology</i>			<b>12977</b> - "Full Lifecycle Modeling: Capturing Evaluation and Performance Data in the Enterprise Architecture Knowledgebase" Mr. John Schatz, <i>SPEC Innovations</i>
<b>TRACK 5 MISSION 2 MODELING &amp; SIMULATION</b>	Dr. James Coolahan, <i>Johns Hopkins University/Applied Physics Lab</i> ; Mr. Jeff Bergenthal, <i>Lockheed Martin</i>	<b>13037</b> - "Discovery of Modeling and Simulation Assets to Support Systems Engineering" Mr. Hart Rutherford, <i>SimVentions, Inc.</i>	<b>13015</b> - "Evolving Lockheed Martin's Engineering Practices Through the Creation of a Model-centric Digital Tapestry" Mr. Christopher Oster, <i>Lockheed Martin</i>	<b>13148</b> - "Hybrid Modeling and Simulation Platform for Rapid Prototyping and Testing of Ad-hoc Wireless Networks" Dr. Dennis Mok, <i>Telcordia Technologies</i>
<b>TRACK 6 MISSION 3 EFFECTIVE TEST &amp; EVALUATION</b>	Dr. Beth Wilson, <i>Raytheon</i> ; Mr. Steve Scukanec, <i>Northrop Grumman Aerospace Sector</i>	<b>12949</b> - "Optimal Test Article Instrumentation Selection" Mr. Richard Munstersteiger, <i>Raytheon Missile Systems</i>	<b>13038</b> - "Early Developmental Testing for Rapid Capability Insertion" Mr. Tyler Myers, <i>Mission Solutions, LLC</i>	<b>13054</b> - "Taking a Systems Engineering Approach to Identifying T&E Issues with the Integration of New Power and Energy Technologies into Warfighting Systems" Ms. Michelle Rosa, <i>Scientific Research Corporation</i>

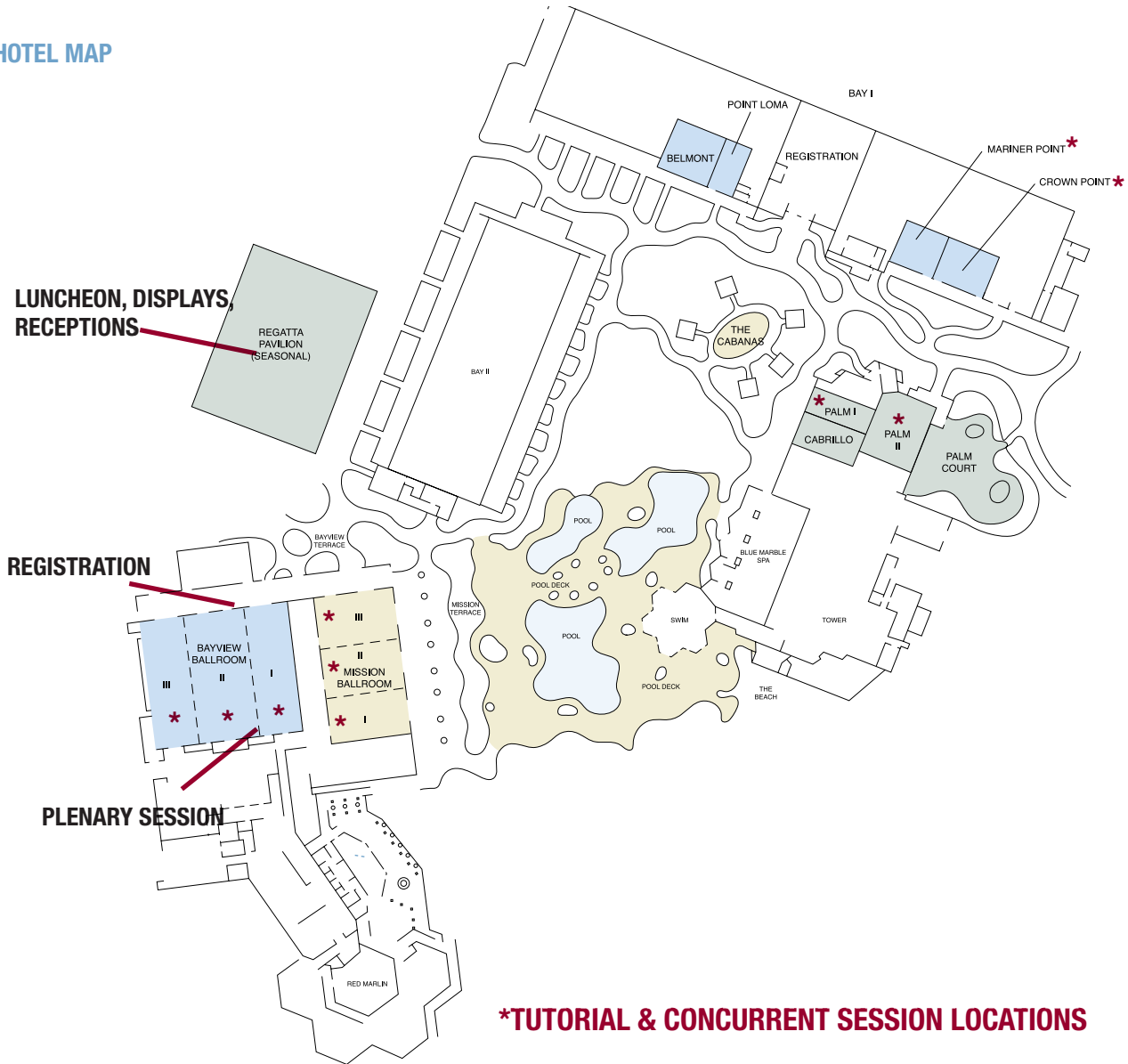
## THURSDAY, OCTOBER 27, 2011

TRACK	SESSION CHAIRS	10:15 AM - 10:50 AM	10:50 AM - 11:25 AM	11:25 AM - 12:00 PM	
<b>TRACK 8 PALM 2 HUMAN SYSTEMS INTEGRATION</b>	Mrs. Elaine Thorpe, <i>The Boeing Company</i> ; Dr. Matthew Risser, <i>Pacific Science &amp; Engineering Group</i>	<b>13169</b> - "Early MANPRINT Involvement in Systems Engineering Reduces Risk in the Materiel Acquisition Life Cycle" Mr. Keith Gunn, <i>U.S. Army Research Laboratory, HRED-ARDEC FE</i>	<b>13036</b> - "Human Systems Integration in Acquisition: Honing in on the Systems Performance Specification" Ms. Sarah Orr, <i>Booz Allen Hamilton</i>	<b>13013</b> - "Applying Elements of User Centered Design in the Development of Systems Without User Interfaces" Dr. W. David Reese, <i>Northrop Grumman</i>	
<b>TRACK 9 MARINER POINT WORK FORCE DEVELOPMENT</b>	Dr. John Snoderly, <i>Defense Acquisition University</i>	<b>13206</b> - "Fuzzy Assessor Using Type 1 Fuzzy Sets and Interval Type 2 Fuzzy Sets" Ms. Paulette Acheson, <i>Missouri University of Science and Technology</i>	<b>13029</b> - "A Hands-on Approach to Systems Engineering Training and Development: The Early Career Advanced Systems Project" Dr. Tammara Massey, <i>Johns Hopkins University Applied Physics Laboratory</i>	<b>13114</b> - "Educating Systems Engineers for a Lean and Agile World" Dr. Richard Turner, <i>Stevens Institute of Technology</i>	
<b>TRACK 10 CROWN POINT ARCHITECTURE</b>	Ms. Barbara Sheeley, <i>The Boeing Company</i>	<b>12990</b> - "Architecture Decisions and Risk Management" Mrs. Tricia McNair; Ms. Lizabeth Markewicz, <i>Raytheon</i>	<b>13640</b> - "Model-Based Systems Engineering without SysML" Mr. John Palmer, <i>The Boeing Company</i>	<b>13220</b> - "Using Lean Architectures and Models to Achieve Measurable Reuse" Mr. Tim Olson, <i>Lean Solutions Institute, Inc.</i>	
<b>12:00 PM - 1:30 PM LUNCHEON IN REGATTA PAVILION</b>					
TRACK	SESSION CHAIRS	1:30 PM - 1:50 PM	1:50 PM - 2:25 PM	2:25 PM - 2:55 PM	2:55 PM - 3:30 PM
<b>TRACK 1 BAYVIEW 1 SYSTEMS ENGINEERING EFFECTIVENESS</b>	Mr. Al Brown, <i>The Boeing Company</i> ; Ms. Dona Lee, <i>SAIC</i>	<b>12994</b> - "Assessing the Quality of a System Inspections Process" Dr. Carolyn Seaman, <i>Fraunhofer CESE</i>	<b>13229</b> - "Implementation of an Enterprise Level Risk Management Process at the Naval Undersea Warfare Center Division, Newport" Mr. Carlos Galliano, <i>Naval Undersea Warfare Center</i>		
<b>TRACK 2 BAYVIEW 2 NET-CENTRIC</b>	Mr. Jack Zavin, <i>ASD(NII)/DoD CIO</i> ; Mr. Robert Kruse, <i>FacetApp LLC</i> ; Mr. Brian Virnelson, <i>Booz Allen Hamilton</i>	<b>12957</b> - "Effects of Systems Engineering on Command and Control Systems Utilizing Innovations in Social Networking" Mr. James ter Veen, <i>Lockheed Martin</i>	<b>13085</b> - "Cloud Issues for Systems Engineers - What Factors Affect Federal Organizations' Decision to Migrate a System to the Clouds" Mr. Allan Mink, <i>SRA International</i>	<b>13177</b> - "Net Centric Training for Legacy Aircraft" Mr. Frank Knight, <i>Georgia Tech Research Institute</i>	

# THURSDAY, OCTOBER 27, 2011

TRACK	SESSION CHAIRS	1:30 PM - 1:50 PM	1:50 PM - 2:25 PM	2:25 PM - 2:55 PM	2:55 PM - 3:30 PM
<b>TRACK 3 BAYVIEW 3 PROGRAM MANAGEMENT</b>	Mr. Gene Rosenbluth, <i>Northrop Grumman Information Systems</i>	<b>12954</b> - "Enterprise Consolidation: Using Modeling and Simulation to Reduce Risk and Optimize Performance of Systems Integration" Ms. John Sahlin, <i>George Washington University</i>	<b>13094</b> - "Risk Management" Mr. Al Florence, <i>The MITRE Corporation</i>	<b>13023</b> - "Something You Should Know About Rights in Technical Data" Mr. Russ Miller, <i>U.S. Army</i>	<b>13082</b> - "Intellectual Property Considerations for Engineers" Mr. William Decker, <i>Defense Acquisition University</i>
<b>TRACK 4 MISSION 1 EARLY SYSTEMS ENGINEERING/ SOS</b>	Mr. John Lohse, <i>Raytheon</i>	<b>12968</b> - "Establishing an Operational Context for Early System-of-Systems Engineering Activities" CDR Bryan Herdlick, <i>USN (Ret), Johns Hopkins University Applied Physics Laboratory</i>	<b>13071</b> - "Application of Mission Level Systems Engineering Concepts in the Support of Major Acquisition Programs" Ms. Helene Anderson, <i>ASN(RDA) CHSENG</i>	<b>13163</b> - "Analysis of the Results from Many Mission Thread Workshops" Mr. William Wood, <i>CMU/SEI</i>	
<b>TRACK 5 MISSION 2 APPLIED SYSTEMS ENGINEERING</b>	Mr. Steve Henry, <i>Northrop Grumman Information Systems</i>	<b>13016</b> - "Air Force Materiel Command Systems Engineering Status" Dr. Brian Kowal, <i>USAF</i>		<b>13201</b> - "Integrated Base Defense - Design and Analysis" Mr. Philip Hudner, <i>U.S. Army ASA(ALT) SoSE</i>	
<b>TRACK 6 MISSION 3 JOINT TEST/ MODELING &amp; SIMULATION</b>	Dr. Beth Wilson, <i>Raytheon</i> ; Dr. James Coolahan, <i>Johns Hopkins University Applied Physics Laboratory</i>		<b>13004</b> - "Improving the Systems Engineering of Live-Virtual-Constructive (LVC) Simulations" Dr. James Coolahan, <i>Johns Hopkins University Applied Physics Laboratory</i>	<b>13055</b> - "The Improved Risk-Based Verification, Validation, and Accreditation Process" Dr. James Elele, <i>Naval Air Systems Command - 5.4.2.3</i>	
<b>TRACK 8 PALM 2 HUMAN SYSTEMS INTEGRATION</b>	Mrs. Elaine Thorpe, <i>The Boeing Company</i> ; Dr. Matthew Risser, <i>Pacific Science &amp; Engineering Group</i>	<b>13236 Panel</b> - "The Human Contribution to Resilient Systems" Dr. Matthew Risser, <i>Pacific Science &amp; Engineering Group</i>			<b>13575</b> - "Framework for HSI: General Systems Performance Theory & the Elemental Resource Model" Dr. George Kondraske, <i>University of Texas</i>
<b>TRACK 9 MARINER POINT WORK FORCE DEVELOPMENT</b>	Dr. John Snoderly, <i>Defense Acquisition University</i> ; Mr. Garry Roedler, <i>Lockheed Martin Corporate Engineering</i>	<b>13103</b> - "The Systems Engineering Body of Knowledge" Ms. Nicole Hutchison, <i>Stevens Institute of Technology</i>		<b>13179</b> - "Developing Defense Systems Engineering Competency via Multi-Quarter Carry-Through Projects" Mr. Gregory Miller, <i>Naval Postgraduate School</i>	<b>13194</b> - "Graduate Reference Curriculum for Systems Engineering (GRCSE)" Dr. David Olwell, <i>Naval Postgraduate School</i>
<b>TRACK 10 CROWN POINT ARCHITECTURE</b>	Ms. Barbara Sheeley, <i>The Boeing Company</i>	<b>13126</b> - "Enterprise Architecture of Emergent Complex Adaptive Systems" Mr. Alan Brenner, <i>BBII</i>	<b>13098</b> - "Full Lifecycle Modeling: Using Enterprise Architecture Updates to Guide Decentralized Organizations" Mr. John Schatz, <i>SPEC Innovations</i>	<b>13130</b> - "Lifecycle Modeling - Application to Architecture Development" Dr. Steven Dam, <i>SPEC Innovations</i>	

HOTEL MAP



**\*TUTORIAL & CONCURRENT SESSION LOCATIONS**

- DISPLAYERS (AS OF 10/12/11)**
- Defense Acquisition University
  - Georgia Tech Research institute
  - California Institute of Technology
  - Price Systems
  - INCOSE Certification
  - IBM
  - SYSTECON
  - Strategy Bridge International
  - Vitech Corporation
  - Worcester Polytechnic Institute



ABSTRACT NUMBER	ABSTRACT TITLE	ADDITIONAL AUTHORS
12887	"An Industry Response to the Acquisition Policies"	Mr. Robert Sheehan
12899	"What's Out There and Where Do I Find it: Enterprise Metacard Builder Resources Portal"	Mr. William Riggs
12934	"Joint Mission Environment Test Capability (JMETC)"	Mr. Ryan Norman
12938	"A New Graduate Certificate Program in Systems Engineering - Defense Systems"	Ms. Jeanne Girard; Dr. Donald McKeon
12939	"Net-Ready Key Performance Parameter Architecture Evaluation Tool"	Ms. Elizabeth O'Keefe
12940	"The Way Forward to Achieve Net Centric Interoperability"	Ms. Megan Vanderberry
12943	"Measuring the Value of Test and Evaluation Using Uncertainty Reduction"	Dr. Shahram Sarkani; Dr. Thomas Mazzuchi
12944	"Section 804 Accelerated Test Evaluation and Certification: What is it and How Will It Impact IT Acquisitions?"	Dr. Steven Hutchison
12945	"Modeling Resource Allocation and Methods Engineering Toward Optimizing Productivity and ROI"	Mr. Gene Carlson
12948	"A Methodology for Designing Modeling and Simulation (M&S) that Integrates Verification, Validation, and Accreditation (VV&A) Processes and Documentation"	Dr. James Elele
12956	"Manufacturing Readiness Levels: An Essential SE Tool to Identify and Manage Manufacturing Risk for Affordability"	Mr. Gary Stanley
12958	"Systems Engineering: The Key to Successful Outcomes"	Mr. Frederick Manzer
12964	"Adopting a Technology Development and Maturity Assessment Methodology"	Mr. Mike Ellis
12971	"A Check Six Principle Primer for Acquisition Executives"	Mr. Mark Longbrake; Mr. Michael Uchino; Maj John Howard; Dr. Tom Christian
12981	"U.S. Air Force ESOH Lessons Learned for MRAP Vehicles"	Mr. Sherman Forbes; Mr. Jefferson Walker; Mr. Alexander Sweeney
12986	"Biometrics and Systems Engineering: Delivering Mission Capability to the Warfighter"	Ms. Megan Corso
12988	"A Study on Design of Range Reduction Dummy Fuze for the Efficiency of Acceptance Test"	Hae-Suk Lee; Yeon-Shik Joe; Tae-In Kim; Jae-Gap Kim
12990	"Architecture Decisions and Risk Management"	Ms. Patricia McNair
12991	"WSARA Implementation - GAO's Perspective on Military Service Challenges"	Mr. Michael Sullivan
12994	"Assessing the Quality of a System Inspections Process"	Mr. Manuel Mastrofini; Dr. Madeline Diep; Dr. Forrest Shull; Ms. Sara Godfrey
12998	"Systems Engineering in Early Development Planning for the Automated Aerial Refueling (AAR) Project"	Mr. Jacob Hinchman; Mr. Daniel J. Schreiter; Mr. Ba Nguyen; Ms. Karen Irvin
13000	"Risk Evaluation When Negotiating PBL Contracts"	Dr. Olle Wijk.; Mr. Tomas Olinger; Mr. Patric Andersson
13004	"Improving the Systems Engineering of Live-Virtual-Constructive (LVC) Simulations"	Dr. Gary Allen; Dr. Katherine Morse; Mr. Robert Lutz
13006	"Effectiveness of Systems Engineering Tailored for the Science and Technology (S&T) Environment: Improvement of USAF Airdrop Accuracy"	Dr. Keith Bowman; Ms. Carol Ventresca; Ms. Stephanie Globus
13007	"Best Practices for Systems Integration Involving Quick Reaction Capabilities"	Mr. Steve Edwards; Mr. Ross Douglas
13011	"The NextGen Interagency Experimentation Hub: Cross-Boundary Information Sharing Services for Distributed Aviation Experimentation"	Mr. Matthew McNeely; Mr. Joseph Thoppil; Ms. Linda Schlipper; Mr. Michael Krueger

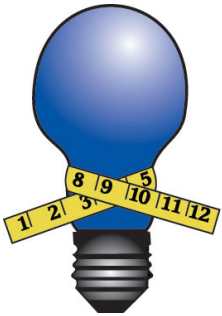
ABSTRACT NUMBER	ABSTRACT TITLE	ADDITIONAL AUTHORS
13013	“Applying Elements of User Centered Design in the Development of Systems Without User Interfaces”	Dr. Conrad Monson
13014	“Early Development Planning Leads to Affordable Systems”	Mr. David Peterson
13015	“Evolving Lockheed Martin’s Engineering Practices Through the Creation of a Model-centric Digital Tapestry”	Mr. Jamie Kanyok
13020	“Object Driven Systems Engineering”	Mr. John Fitch
13021	“Risk in Science and Technology (S&T)”	Mr. Bryan DeHoff; Ms. Carol Ventresca; Mr. Robert Rapson
13024	“Can Anyone Really Model DoD Space Acquisitions?”	Maj Chad Searle; Lt Col Joseph Wirthlin
13029	“A Hands-on Approach to Systems Engineering Training and Development: The Early Career Advanced Systems Project”	Dr. Tammara Massey
13030	“Patterns and Pattern Languages for Systems of Systems”	Mr. Michael Gagliardi; Dr. Len Bass; Mr. Manuel Beltran
13032	“Enabling Success in IT Intensive Acquisitions: Bootstrapping Grass-Roots Success”	Dr. Joseph DeRosa
13034	“Complexity Management: A Perspective on Large, Joint, System Capabilities and Requirements Management in the MDA”	Mr. Warren Anderson; Ms. Kelly Sacco
13036	“Human Systems Integration in Acquisition: Honing in on the Systems Performance Specification”	Mr. David Mohl; Mr. Thomas Ray; Mr. John Maziarz
13037	“Discovery of Modeling and Simulation Assets to Support Systems Engineering”	Dr. David Lashlee; Ms. Robin Wieckhorst; Mr. Paul Gustavson
13039	“Cost Effectively Maintaining Legacy Systems Using GEM (Generalized Emulation of Microcircuits)”	Mr. Allan Schlier
13048	“Modeling & Simulation for Affordable System Acquisition”	Mr. David Peterson; Dr. Deganit Armon
13052	“Systems-based Design of a Patrol Leading Unmanned Ground Vehicle”	Mr. Michael Boulet
13053	“Update to ISO TRL Standard”	Dr. Corinne Kramer; Mr. William Nolte
13054	“Taking a Systems Engineering Approach to Identifying T&E Issues with the Integration of New Power and Energy Technologies into Warfighting Systems”	Ms. Megan Corso
13055	“The Improved Risk-Based Verification, Validation, and Accreditation Process”	Mr. Jeremy Smith
13056	“Integrated Planning for F-35 Mission Systems Flight Test”	MAJ Shawn Orban; Mr. Roger Blasius
13058	“Coalition Interoperability Assurance & Validation (CIAV) and Coalition Test & Evaluation Environment (CTE2)-A Model for Coalition Interoperability in a Distributed Construct”	Mr. Todd Rissinger
13059	“Joint Interoperability Test Certification - Evolving the Net Ready-Key Performance Parameter (NR-KPP) and Provisioning Infrastructure to Support Department of Defense (DoD) Agile Acquisition Reform”	Mr. Alan Rieffer
13061	“Homeland Security Commercial Test and Evaluation Approach”	Mr. Richard Stuckey
13066	“Debunking the Myths of Knowledge Transfer”	Mrs. Dina Lacovara
13075	“Systems Engineering Program Metrics”	Mr. Peter Nolte
13078	“Critical Success Factors for Rapid, Innovative Engineering Solutions”	Dr. Barry Boehm
13084	“Developing Systemic Leaders”	Dr. DeWitt Latimer IV
13101	“Examining the Role of Context in Data Interoperability”	Mr. Patrick Place; Mr. Marc Novakouski; Dr. David Carney
13103	“The Systems Engineering Body of Knowledge”	Dr. David Olwell
13104	“Comprehensive Program Protection Planning”	Mr. E. Kenneth HongFong

ABSTRACT NUMBER	ABSTRACT TITLE	ADDITIONAL AUTHORS
13109	"Recovering from a Chaotic Agile Development Effort"	Dr. Ipek Ozkaya; Mr. Felix Bachmann; Mr. Robert Wojcek
13110	"Systems Engineering Principles in Air Force IR&D Process"	Mr. Giovanni Pagán; Mr. Charles Botello; Ms. Kimberly Andrews; Mr. Jorge Erazo
13114	"Educating Systems Engineers for a Lean and Agile World"	Dr. Dinesh Verma; Dr. Michael Pennotti; Dr. Jon Wade; Dr. Peter McQuade
13122	"Systems Architecting: Practices for Agile Development in the Systems Engineering Context"	Mr. Thomas McDermott Jr.
13123	"The MITRE-Aerospace Critical Factors for Acquisition Success Checklist"	Ms. Nadine Tronick; Dr. Allyson Yarbrough
13126	"Enterprise Architecture of Emergent Complex Adaptive Systems"	Ms. Claudia Rose
13129	"Bridging the Information Gap Between Diverse Modeling and Simulation Tools"	Mr. Brian Van Leeuwen; Dr. Mark Smith; Ms. Kimberly Welch; Mr. Donan Estill Jr.
13130	"Lifecycle Modeling – Application to Architecture Development"	Mr. James Willis
13131	"Limitations of Readiness Levels"	Mr. William Nolte
13132	"Readiness Level Proliferation"	Dr. James Malas
13134	"System Interoperability Influence on System of Systems Engineering Effort"	Dr. Ricardo Valerdi
13138	"Systems Engineering Approach to Technology Integration"	Mr. Bobby Naraine; Mr. Scott Story
13141	"Model Based Systems Engineering (MBSE) Business Case Considerations - An Enabler of Risk Reduction"	Mr. Amar Zabarrah
13144	"Cyber Failure Modes, Effects and Criticality Analysis (CFMECA)"	Mr. Jeremy Kackley; Ms. Claudette Owens
13145	"A Solutions Based Approach to MBSE Defense Architectures with UPDM"	Mr. Matthew Clayton Hause
13147	"An Application in Technology Insertion for a Legacy System"	Mr. Nathan Adams
13148	"Hybrid Modeling and Simulation Platform for Rapid Prototyping and Testing of Ad-hoc Wireless Networks"	Mr. Mike Maszczak
13150	"Systems Engineering Experience Accelerator Demonstration"	Dr. Jon Wade; Dr. Douglas Bodner; Dr. William Watson; Dr. George Kamberov
13153	"Institutionalizing Model-Based Systems and Software Engineering Methods for DoD Systems Development: An Initiative at the U.S Army Aviation and Missile Research, Development, and Engineering Center"	Mr. Barry Gosnell; Mr. Michael Gully; Mr. Tim Brockwell; Mr. Michael Morris
13154	"Executable Architectures in Model-based Systems Engineering"	Mr. Matthew Clayton Hause
13157	"Adaptable System Integration On Multiple Platforms"	Ms. Samantha Swafford
13163	"Analysis of the Results from Many Mission Thread Workshops"	Mr. Michael Gagliardi
13166	"Systems Engineering and the Forgotten '-Illities'"	Dr. Steven Dam
13167	"A Test Support Tool"	Mr. Scott Yeomans
13169	"Early MANPRINT Involvement in Systems Engineering Reduces Risk in the Materiel Acquisition Life Cycle"	Mr. Michael Geller; Dr. Gabriella Larkin; Mr. Dennis Scott
13171	"Advanced Mission Module Autonomy"	Mr. Joshua Lappen; Ms. Ann Charron
13173	"Architecture-enabled Systems Engineering: Applying DoDAF to Legacy Systems"	Mr. Philip Simpkins
13176	"Collaborative Development of Systems Architecting Design Rules"	Mr. Nicholas Bollweg; Dr. Tommer Ender
13178	"Systems Engineering Best Practices for Quick Reaction Weapon Programs"	Mr. Marvin Ebbert

ABSTRACT NUMBER	ABSTRACT TITLE	ADDITIONAL AUTHORS
13179	"Developing Defense Systems Engineering Competency via Multi-Quarter Carry-Through Projects"	Professor Cliff Whitcomb; Mr. Gary Langford; Mr. Mark Stevens; Professor Diana Angelis
13181	"Framework for Assessing Cost and Technology: Integrating M&S into Ground Vehicle Acquisition"	Dr. Tommer Ender
13184	"Sustainable Painting Operations for the Total Army: Success!"	Mr. John Escarsega; Mr. John Kelley; Mr. Fred Lafferman
13186	"Development Test and Evaluation Committee: Collaboration and Alignment with Systems Engineering Division"	Mr. Tom Wissink
13187	"Update on Test and Evaluation Issues for Systems of Systems"	Dr. Judith Dahmann
13188	"Systems Engineering Applied to Decision Making"	Ms. Rebecca Addis; Mr. Andrew Yee
13192	"Model-Based Business Case Analysis (BCA) of Condition Based Maintenance Plus (CBM+) Investments"	Mr. Joel J. Luna
13194	"Graduate Reference Curriculum for Systems Engineering (GRCSE)"	Dr. Art Pyster; Dr. Alice Squires; Dr. Richard Freeman; Dr. Timothy Ferris
13198	"Lessons Learned In Performing Technology Maturity Assessment for a Milestone B Review of an Acquisition Category Vehicle Program"	Mr. Jerome Tzau; Mr. Brett Johnson
13200	"Army Development Planning"	Mr. Jeffrey Dyer
13201	"Integrated Base Defense - Design and Analysis"	Mr. John Notte; Mr. Michael Russell
13202	"Restructuring the Army Systems Architecture Processes & Products and Realizing their Value"	Ms. Carmela Rice
13206	"Fuzzy Assessor Using Type 1 Fuzzy Sets and Interval Type 2 Fuzzy Sets"	Dr. Cihan Dagli
13207	"Performance Prediction and Methodology for Monitoring PARMs in a SoS Development"	Mr. Richard Volkert
13235	"Risks, Issues and Lessons Learned: Maximizing Risk Management in the DoD Ground Domain"	Mr. George Wiklund
13236	"The Human Contribution to Resilient Systems"	Ms. Elaine Thorpe; Dr. Robert Neches; Mr. George Kondraske
13237	"Application of Agile Methodologies to Live, Virtual, Constructive Integrating Architecture"	Mr. Rich Link; Mr. Hunt Sparra; Mr. John Stevens



# THANK YOU TO OUR 2011 CONFERENCE SPONSORS!



## LEAN SOLUTIONS INSTITUTE, Inc. LEAN SOLUTIONS™ FOR YOUR ORGANIZATION

Lean Solutions Institute, Inc. (LSI) specializes in helping organizations to rapidly achieve measurable results by using benchmarking and Lean Solutions® to successfully improve client products and services. LSI helps organizations to measurably:

- Achieve ROI (e.g., 7:1)
- Increase productivity, performance and quality
- Reduce cycle time/schedule
- Reduce defects (e.g., post-release defects), rework and costs of poor quality
- Achieve world-class results (e.g., 70-90% defect removal efficiency or defects removed before test)

Systems engineering and software engineering have become more and more complex over the years. With this growing complexity, processes and procedures have become larger and more complex. Based on surveys, most organizations do not like their processes and procedures (e.g., including CMMI Maturity Level 3-5 organizations) and they can have some of the following lean problems:

- Too large and complex (i.e., not lean or agile)
- Have non-value added activities (e.g., lose money on small projects)
- Lack of visualization (e.g., pictures, diagrams, tables, charts, etc.)
- Difficult to use (e.g., poor usability)
- Lack of “chunking” which is a best practice for usability (7 plus or minus 2 principle)
- Lack of innovation
- Lack of “good metrics”, not the right metrics, or not lean metrics

LSI has a patent pending approach for defining systems engineering and software engineering processes (e.g., CMMI compliant processes) in a lean (e.g., short, usable, visual) way. Although this approach can be simple, it also scales up to handle complex processes (e.g., NASA processes, large industry organizations, etc). LSI uses “good diagrams” (i.e., process models) for putting the 5 W’s (who, what, where, when, why) on one page. These visual one-page diagrams along with a page of support text typically replace about 25-30 pages of text. For example, lean CMMI processes are typically about 20% of the size of a typical CMMI implementation, and take half the time to implement (e.g., 1 year). In several CMMI success stories using the LSI approach (independently verified), organizations estimate that processes are about 20% of the size of sister business units with a similar CMMI rated processes, and have achieved CMMI maturity levels half the time (or less).

LSI can help your organization achieve measurable results, reduce size and complexity, and improve processes and metrics to become much more lean, “value added”, visual, and usable. LSI also uses an ISO/Baldrige approach. LSI only does improvement and uses independent Authorized SEI Lead Appraisers to objectively verify LSI Lean Solutions® for CMMI.

® Lean Solutions is a registered trademark of the U.S. Patent and Trademark Office by Process Assets, LLC (PAL).

® CMMI is a registered trademark of the U.S. Patent and Trademark Office by Carnegie Mellon University.

# THANK YOU TO OUR 2011 CONFERENCE SPONSORS!

*THE VALUE OF PERFORMANCE.*

***NORTHROP GRUMMAN***



Northrop Grumman is a leading global security company providing innovative systems, products and solutions in aerospace, electronics, information systems, and technical services to government and commercial customers worldwide.

# Raytheon

Raytheon Company, with 2009 sales of \$25 billion, is a technology and innovation leader specializing in defense, homeland security and other government markets throughout the world. With a history of innovation spanning 88 years, Raytheon provides state-of-the-art electronics, mission systems integration and other capabilities in the areas of sensing; effects; and command, control, communications and intelligence systems, as well as a broad range of mission support services. With headquarters in Waltham, Mass., Raytheon employs 75,000 people worldwide.

# THANK YOU TO OUR 2011 CONFERENCE PLANNING COMMITTEE AND SESSION CHAIRS!

## Conference Chair:

Mr. Bob Rassa, *Director, Engineering Programs, Raytheon; Chair, NDIA Systems Engineering Division*

## Technical Program Chairs:

Mr. Steve Henry, *Director of Engineering Defense Systems & Defense Technology Divisions, Northrop Grumman Information Systems*

Dr. Tom Christian, *Director, Center for Systems Engineering, Air Force Institute of Technology*

## Session Chairs:

### SYSTEMS ENGINEERING EFFECTIVENESS

Mr. Al Brown, *The Boeing Company*;  
Ms. Dona Lee, *SAIC*

### NET-CENTRIC OPERATIONS/ INTEROPERABILITY

Mr. Jack Zavin, *ASD(NII)/DoD CIO*;  
Mr. Robert Kruse, *FacetApp LLC*;  
Mr. Brian Virnelson, *Booz Allen Hamilton*

### SYSTEM OF SYSTEMS

Dr. Judith Dahmann, *The MITRE Corporation*;  
Mr. John Palmer, *The Boeing Company*

### EARLY SYSTEMS ENGINEERING

Mr. John Lohse, *Raytheon*;  
Mr. Jeff Loren, *Alion Science & Technology*

### MODELING & SIMULATION

Dr. James Coolahan, *Johns Hopkins University/Applied Physics Lab*;  
Mr. Jeff Bergenthal, *Lockheed Martin*

### TEST & EVALUATION ACQUISITION POLICIES

Dr. Beth Wilson, *Raytheon*;  
Mr. Steve Scukanec, *Northrop Grumman Aerospace Sector*

### ESOH

Mr. Sherman Forbes, *SAF/AQRE*

### CYBER

Mr. Paul Croll, *CSC*

### MATURITY PLANNING

Mr. William Nolte, *Air Force Research Laboratory*;  
Dr. James Malas, *Air Force Research Laboratory*

### LOGISTICS

Mr. Joel Moorvitch, *Raytheon Company*

### INTEGRATED TEST STRATEGIES

Mr. Howard Savage, *SCI*;  
Mr. Chris Reisig, *The Boeing Company*

### AFFORDABILITY

Mr. Joel Moorvitch, *Raytheon Company*;  
Mr. Gene Rosenbluth, *Northrop Grumman Information Systems*

### MBE/MBSE

Dr. James Coolahan, *Johns Hopkins University/Applied Physics Lab*;  
Mr. Jeff Bergenthal, *Lockheed Martin*

### JOINT TEST/SOS/NET

Dr. Beth Wilson, *Raytheon*;  
Dr. Judith Dahmann, *The MITRE Corporation*

### SOFTWARE INTENSIVE SYSTEMS

Mr. Paul Croll, *CSC*;  
Mr. Mike McLendon, *OSD AT&L DDR&E M&SCO*

### JOINT NET/SOS

Mr. Jack Zavin, *ASD(NII)/DoD CIO*;  
Dr. Judith Dahmann, *The MITRE Corporation*

### EFFECTIVE TEST & EVALUATION

Dr. Beth Wilson, *Raytheon*;  
Mr. Steve Scukanec, *Northrop Grumman Aerospace Sector*

### WORK FORCE DEVELOPMENT

Dr. John Snoderly, *Defense Acquisition University*;  
Mr. Garry Roedler, *Lockheed Martin Corporate Engineering*

### ARCHITECTURE

Ms. Barbara Sheeley, *The Boeing Company*

### PROGRAM MANAGEMENT

Mr. Gene Rosenbluth, *Northrop Grumman Information Systems*

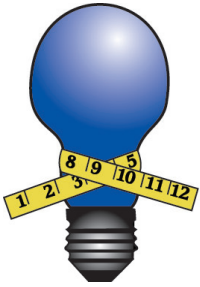
### HUMAN SYSTEMS INTEGRATION

Mrs. Elaine Thorpe, *The Boeing Company*;  
Dr. Matthew Risser, *Pacific Science & Engineering Group*

### APPLIED SYSTEMS ENGINEERING

Mr. Steve Henry, *Northrop Grumman Information Systems*

# THANK YOU TO OUR 2011 CONFERENCE SPONSORS!



LEAN SOLUTIONS INSTITUTE, Inc.  
LEAN SOLUTIONS™ FOR YOUR ORGANIZATION

*THE VALUE OF PERFORMANCE.*

***NORTHROP GRUMMAN***

**Raytheon**

---

## SAVE THE DATE!

15<sup>TH</sup> ANNUAL  
SYSTEMS ENGINEERING CONFERENCE

**OCTOBER 22-25, 2012**

**SAN DIEGO, CA**

[www.ndia.org/meetings/3870](http://www.ndia.org/meetings/3870)

**PROCEEDINGS  
FROM THE 2011 CONFERENCE  
WILL BE POSTED TO THE FOLLOWING LINK:**

<http://www.dtic.mil/ndia/2011system/2011system.html>

**THE ATTENDEE ROSTER AND PROCEEDINGS LINK  
WILL BE EMAILED TO ATTENDEES AT THE CONCLUSION OF THE CONFERENCE.**