

10th ANNUAL SYSTEMS ENGINEERING CONFERENCE



HYATT REGENCY MISSION BAY → SAN DIEGO, CA

OCT. 22 - 25, 2007

WWW.NDIA.ORG/MEETINGS/8870

Conference Agenda {At A Glance}

Sunday, October 21, 2007

5:00 pm - 7:00 pm Registration for Tutorials and General Conference
(Tutorials are an additional \$225.00 registration fee)

Monday, October 22, 2007

7:00 am - 6:00 pm Registration

7:00 am - 8:00 am Continental Breakfast for Tutorial Attendees ONLY
(Tutorials are an additional \$225.00 registration fee)

8:00 am - 11:45 am Tutorial Tracks
(Please refer to pages 4-5 for Tutorial schedule)

12:00 pm - 1:00 pm Lunch for Tutorial Attendees ONLY

1:00 pm - 5:00 pm Tutorial Tracks Continued

5:00 pm - 6:00 pm Reception in the Regatta Pavilion (Open to All Participants)

Tuesday, October 23, 2007

7:15 am - 6:30 pm Registration

7:15 am - 8:15 am Continental Breakfast

8:15 am - 8:30 am Introductions & Opening Remarks:
Mr. Sam Campagna, Director, Operations, NDIA
Mr. Bob Rassa, Director, Systems Supportability, Raytheon,
Chair, Systems Engineering Division, NDIA

8:30 am - 9:45 am Keynote Addresses:
HON James Finley, Deputy Under Secretary of Defense, Acquisition & Technology
HON Charles McQueary, Director, Operational Test & Evaluation

9:45 am - 10:00 am Break



10:00 am - 12:00 pm	Plenary Session: Executive Panel Moderator: <i>Mr. Mark Schaeffer, Director, Office of Under Secretary of Defense for Acquisition, Technology and Logistics; Director, Systems and Software Engineering</i> Panelists: <i>Mr. Terry Jagers, SAF/AQR - Science, Technology, and Engineering</i> <i>Mr. Carl Siel, Chief Engineer, Office of the Assistant Secretary of the Navy Research, Development and Acquisition</i> <i>Mr. Doug Wiltsie, HQDA, OASA (ALT)</i>
12:00 pm - 1:30 pm	Luncheon with Speaker in the Regatta Pavilion <i>Mr. Mike Kern, Senior Systems Engineer, OASD (NII)</i>
1:30 pm - 5:00 pm	Concurrent Sessions <i>(Please refer to pages 6-10 for session schedule)</i>
5:00 pm - 6:30 pm	Reception in the Regatta Pavilion

Wednesday, October 24, 2007

7:00 am - 5:00 pm	Registration
7:00 am - 8:00 am	Continental Breakfast
8:00 am - 12:00 pm	Concurrent Sessions <i>(Please refer to pages 6-10 for session schedule)</i>
12:00 pm - 1:30 pm	Awards Luncheon in the Regatta Pavilion
1:30 pm - 5:00 pm	Concurrent Sessions <i>(Please refer to pages 6-10 for session schedule)</i>

Thursday, October 25, 2007

7:00 am - 3:00 pm	Registration
7:00 am - 8:00 am	Continental Breakfast
8:00 am - 12:00 pm	Concurrent Sessions <i>(Please refer to pages 6-10 for session schedule)</i>
12:00 pm - 1:00 pm	Luncheon in the Regatta Pavilion
1:00 pm - 3:00 pm	Concurrent Sessions <i>(Please refer to pages 6-10 for session schedule)</i>
3:00 pm	Conference Adjourns

Tutorial Sessions - Monday, October 22, 2007

8:00 am - 9:45 am

10:15 am - 11:45 am

7:00 am Registration & Continental Breakfast

Bayview A	Track 1 Tutorial Session 1A1	5305 - Are we Ready for CMMI®? If not, Let's Fix Ourselves <i>Mr. Al Florence, The MITRE Corporation</i>
Bayview B	Track 2 Tutorial Session 1A2	5454 - Cost As an Independent Variable and Trade Studies <i>Mr. Ed Casy, Raytheon Missile Systems</i>
Bayview C	Track 3 Tutorial Session 1A3	5404 - How to Reduce Schedule Uncertainty by Integrating Sound Management Methods with Systems Engineering Best Practices <i>Mr. Gary Langford, The Naval Postgraduate School</i>
Mission I	Track 4 Tutorial Session 1A4	5498 - System Verification Organization <i>Mr. Jeffrey Grady, JOG System Engineering, Inc.</i>
Mission II	Track 5 Tutorial Session 1A5	
Mission III	Track 6 Tutorial Session 1A6	5542 - Best-In-Class Early Defect Detection and Defect Prevention <i>Mr. Timothy Olson, Lean Solutions Institute, Inc.</i>
Palm I	Track 7 Tutorial Session 1A7	5784 - Operational Concepts: Using Cases & Scenarios to Understand User's Needs <i>Mr. Raymond Jorgensen, Rockwell Collins</i>
Palm II	Track 8 Tutorial Session 1A8	5577 - Introduction to SysML & Object Oriented Systems Engineering Methodology (OOSEM) <i>Mr. Abe Meilich, Lockheed Martin</i>

Break

Track 1 Tutorial Session 1B1	5305 - Are we Ready for CMMI®? If not, Let's Fix Ourselves (Cont'd) <i>Mr. Al Florence, The MITRE Corporation</i>
Track 2 Tutorial Session 1B2	5454 - Cost As an Independent Variable and Trade Studies (Cont'd) <i>Mr. Ed Casy, Raytheon Missile Systems</i>
Track 3 Tutorial Session 1B3	5404 - How to Reduce Schedule Uncertainty by Integrating Sound Management Methods with Systems Engineering Best Practices (Cont'd) <i>Mr. Gary Langford, The Naval Postgraduate School</i>
Track 4 Tutorial Session 1B4	5498 - System Verification Organization (Cont'd) <i>Mr. Jeffrey Grady, JOG System Engineering, Inc.</i>
Track 5 Tutorial Session 1B5	
Track 6 Tutorial Session 1B6	5542 - Best-In-Class Early Defect Detection and Defect Prevention (Cont'd) <i>Mr. Timothy Olson, Lean Solutions Institute, Inc.</i>
Track 7 Tutorial Session 1B7	5784 - Operational Concepts: Using Cases & Scenarios to Understand User's Needs (Cont'd) <i>Mr. Raymond Jorgensen, Rockwell Collins</i>
Track 8 Tutorial Session 1B8	5577 - Introduction to SysML & Object Oriented Systems Engineering Methodology (OOSEM) (Cont'd) <i>Mr. Abe Meilich, Lockheed Martin</i>

1:00 pm - 2:45 pm

Buffet Lunch

Track 1 Tutorial Session 1C1	5307 - Requirements Development and Management <i>Mr. Al Florence, The MITRE Corporation</i>
Track 2 Tutorial Session 1C2	5326 - Integrating Systems Engineering with Earned Value Management <i>Mr. Paul Solomon, Performance-Based Earned Value®</i>
Track 3 Tutorial Session 1C3	5404 - How to Reduce Schedule Uncertainty by Integrating Sound Management Methods with Systems Engineering Best Practices (Cont'd) <i>Mr. Gary Langford, The Naval Postgraduate School</i>
Track 4 Tutorial Session 1C4	5511 - Modeling Sustainment and Risk Mitigation for Net-Enabled Realities <i>Mr. Philip Boxer, Software Engineering Institute/CMU</i>
Track 5 Tutorial Session 1C5	5540 - Introduction to Reliability Analysis <i>Dr. Meng-Lai Yin, Raytheon Company</i>
Track 6 Tutorial Session 1C6	5544 - How to Define Practical Systems Engineering Metrics <i>Mr. Timothy Olson, Lean Solutions Institute, Inc.</i>
Track 7 Tutorial Session 1C7	5582 - Leading Effective System of Systems (SoS) Technical Reviews <i>Mr. David Walden, Sysnovation, LLC</i>
Track 8 Tutorial Session 1C8	5577 - Introduction to SysML & Object Oriented Systems Engineering Methodology (OOSEM) <i>Dr. Abe Meilich, Lockheed Martin</i>

3:15 pm - 5:00 pm

Break

Track 1 Tutorial Session 1D1	5307 - Requirements Development and Management (Cont'd) <i>Mr. Al Florence, The MITRE Corporation</i>
Track 2 Tutorial Session 1D2	5326 - Integrating Systems Engineering with Earned Value Management (Cont'd) <i>Mr. Paul Solomon, Performance-Based Earned Value®</i>
Track 3 Tutorial Session 1D3	5404 - How to Reduce Schedule Uncertainty by Integrating Sound Management Methods with Systems Engineering Best Practices (Cont'd) <i>Mr. Gary Langford, The Naval Postgraduate School</i>
Track 4 Tutorial Session 1D4	5511 - Modeling Sustainment and Risk Mitigation for Net-Enabled Realities (Cont'd) <i>Mr. Philip Boxer, Software Engineering Institute/CMU</i>
Track 5 Tutorial Session 1D5	5540 - Introduction to Reliability Analysis (Cont'd) <i>Dr. Meng-Lai Yin, Raytheon Company</i>
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Track 8 Tutorial Session 1D8	5577 - Introduction to SysML & Object Oriented Systems Engineering Methodology (OOSEM) (Cont'd) <i>Dr. Abe Meilich, Lockheed Martin</i>

5:00 pm - 6:00 pm Reception in Regatta Pavilion

Tuesday, October 23, 2007

1:30 pm - 3:00 pm

concurrent sessions

Bayview A	TRACK 1 Systems Engineering Effectiveness Session 2C1	5378 - DoD's Systems Engineering Revitalization Efforts—An Update Col Richard Hoeflerkamp, USAF	5399 - The Effectiveness of Systems Engineering on Federal (DoD) System Development Programs Mr. Al Mink, SRA International
Bayview B	TRACK 2 Test & Evaluation in Systems Engineering Session 2C2	5503 - A Vector Check—Revitalizing DT&E Mr. Chris DiPietro, OUSD (AT&L)	5402 - A Test Strategy Done Early Drives Test Planning and Successful Testing Mr. William Lyders, ASSETT, Inc.
Bayview C	TRACK 3 Program Management Session 2C3	5522 - Systemic Root Cause Analysis of Acquisition Program Issues Mr. Dave Castellano, OUSD (AT&L)	Systemic Root Cause Analysis - Emerging Recommendations Industry Panel Discussion Mr. Dave Castellano, OUSD (AT&L)
Mission I	TRACK 4 Integrated Diagnostics Session 2C4	5797 - Environment, Safety, and Occupational Health (ESOH)—Design Considerations to Support Sustainability and Readiness Ms. Patricia Huhsey, ODUSD (I&E)	5508 - Integrated Structural Health Monitoring System Using Lamb Waves Maj Joerg Walter, USAF, Air Force Institute of Technology
Mission II	TRACK 5 Modeling & Simulation Session 2C5	5446 - Implementing the Acquisition M&S Master Plan Mr. Michael Truelove, SAIC	5421 - M&S-Related Guidelines for Contracting Practices Mr. James Hollenbach, Simulation Strategies, Inc.
Mission II	TRACK 6 Net Centric Operations Session 2C6	5430 - The Use of Enterprise Architecture to Support the Development of the Next Generation Air Transportation System (NextGen) Mr. David Snyder, The MITRE Corp.	5500 - Complex Systems of Systems: The Dual Challenge Mr. Phillip Boxer, Software Engineering Institute
Palm I	TRACK 7 Best Practices & Standardization Session 2C7	5780 - Simplifying & Scaling Engineering Processes: Unifying Business Units and Engineering Disciplines Mr. Raymond Jorgensen, Rockwell Collins	5491 - Systems Engineering Process Improvements at NAVAIR Mr. Michael Goydar, Department of Navy, NAVAIR
Palm II	TRACK 8 Software Session 2C8	6163 - DoD Software Engineering and System Assurance Ms. Kristen Baldwin, ODUSD (A&T) Systems and Software Engineering	6164 - A Reference Curriculum for Software Engineering Graduate Education Ms. Kristen Baldwin, ODUSD (A&T) Systems and Software Engineering

Break in the Regatta Pavilion

3:30 pm - 5:00 pm

concurrent sessions

TRACK 1 Systems Engineering Effectiveness Session 2D1	5484 - Tools and Resources to Enable Systems Engineering Improvement Mr. Michael Kutzb, SPAWAR Systems Center Charleston	5626 - Good Systems Engineering Insures Good Productivity Dr. Thomas Christian, Aeronautical Systems Center	5405 - Systems Engineering Realization for the Future Ms. Karen Bausman, AF Center for Systems Engineering
TRACK 2 Test & Evaluation in Systems Engineering Session 2D2	5489 - Applying Design of Experiments Methodology to Sortie Generation Rate Evaluation Mr. Joseph Tribble, AVW Technologies	5774 - Implementing and Measuring Test Program in a Sustainment Environment Mr. James Miller, USAF	Joint Safety Review Process Study Ms. Paige Ripini, Booz Allen Hamilton
TRACK 3 Program Management Session 2D3	5779 - Applying Systems Engineering During Pre-Acquisition Activities Lt Col Mark Wilson, USAF	5435 - Reforming the DoD Acquisition Process—A Systems Engineering Approach Mr. Stephen Ward, U.S. Air Force	5365 - P Value of Systems Engineering: Analysis & Results from Previous and Current Studies of Over 100 System Development Projects Mr. Alan Mink, SRA International
TRACK 4 Integrated Diagnostics Session 2D4	5368 - Real-Time Diagnostics for High Availability Systems Mr. Edward Beck, Computer Sciences Corporation	5271 - Leveraging EMS for Condition Based Maintenance Mr. Bob Hedlman, O'Neil & Associates, Inc.	5287 - Sparing Satellites- Comparative Strategies of In-orbit & In-factory Storage Mr. James Mazzei, The Aerospace Corporation
TRACK 5 Modeling & Simulation Session 2D5	5427 - Modeling and Simulation Resource Reuse Business Model Mr. Dennis Shea, Center for Naval Analyses	5603 - Modeling and Simulation Support Plan Mr. David Henry, Lockheed Martin	6099 - Modeling and Simulation Education for the Acquisition Workforce: Requirements Analysis Mr. David Olivell, NPS
TRACK 6 Net Centric Operations Session 2D6	5576 - Systems Engineering in the Cognitive and Social Domains of Net Centric Operations Dr. Abe Mellich, Lockheed Martin	Global Information Grid (GIG) Technical Foundation (GTF) and GIG Compliance Assessment (GICA) Mr. Brendan Goode, Booz Allen Hamilton	Global Information Grid (GIG) Performance Assessment Framework Mr. Tony Modelfino, Strategis
TRACK 7 Best Practices & Standardization Session 2D7	5781 - Integrating Engineering Project Management and Product Development Processes Mr. Raymond Jorgensen, Rockwell Collins	5831 - Engineering for System Assurance—Legacy, Life Cycle, Leadership Mr. Paul Croll, Computer Sciences Corporation	5481 - Developing an Integrated Process Methodology for Interim Software Releases Mr. Tim Woods, Southern Methodist University
TRACK 8 Software Session 2D8	5315 - Requirements for a Chief Software Engineering in a DoD Acquisition Agency Mr. Al Florence, The MITRE Corporation	5481 - Developing an Integrated Process Methodology for Interim Software Releases Mr. Tim Woods, Southern Methodist University	5481 - Developing an Integrated Process Methodology for Interim Software Releases Mr. Tim Woods, Southern Methodist University

5:00 pm - 6:00 pm Reception in the Regatta Pavilion

Wednesday, October 24, 2007

10:15 am - 12:00 pm

concurrent sessions

TRACK 1 Systems Engineering Effectiveness Session 3B1	5557 - How to Measurably Improve Your Requirements Mr. Timothy Olson, <i>Lean Solutions Institute, Inc.</i>	5670 - Review of the Roles of a System Architect Dr. Dinesh Verma, <i>Stevens Institute of Technology</i>	5865 - Case Studies: A Common Language Between Engineers and Managers Capt. De Witt Latimer, <i>USAF</i>
TRACK 2 Test & Evaluation in Systems Engineering Session 3B2	5473 - Joint Mission Environment Test Capability (JMETC) Mr. Richard Lockhart, <i>Test Resource Management Center</i>	5585 - Testing Concept of Operations in DoD's Net Centric Environment Mr. Steve Reeder, <i>South Carolina Research Authority (SCRA)</i>	
TRACK 3 Program Management Session 3B3	5381 - Systems Engineering and Program Management—How Different are They? Ms. Lori Zipes, <i>Naval Surface Warfare Center PC</i>	5799 - Systems Engineering Analysis to Improve Concept Development of Complex Defense Systems Mr. Michael Harper, <i>SPAWAR Systems Center Charleston</i>	5531 - The Joint Partnership Between Program Management and Systems Engineering Mr. Samuel Son, <i>The Boeing Company</i>
TRACK 4 Logistics, Supportability, and Readiness Session 3B4	5903 - Asset-Based PBL for Navy Washships – A Case Study for LCS Class Ships Mr. Michael Mahon, <i>Lockheed Martin</i>	5530 - Considerations and Propose Approach for Integrating New Hardware & Software into the Legacy Military Aircraft Avionics Systems—A Systems Engineering Lesson-Learned Perspective on the C-17 Program Mr. Phot Vu, <i>The Boeing Company</i>	5954 - Integrated Diagnostics Closed Loop Data System (At the Point of Use) (Support Systems Knowledge Engineering Enhances Traditional Support Equipment Systems Engineering) Mr. Steven Head, <i>Boeing</i>
TRACK 5 Modeling & Simulation Session 3B5	5431 - Acquisition M&S Community Sponsored M&S Project: Standardized Documentation for Verification, Validation, and Accreditation Mr. Kevin Charlow, <i>Space and Naval Warfare Systems Center Charleston</i>	5426 - A Methodology for Assessing & Prioritizing the Risks Associated with the Level of Verification, Validation and Accreditation (VV&A) of Models and Simulations Dr. James Eidele, <i>U.S. Navy</i>	
TRACK 6 Net Centric Operations Session 3B6	5386 - Application of Autonomic Agents for Global Information Grid Mr. David Cox, <i>University of Arizona</i>	5847 - Architecture-Based Concept Evaluation in Support of JCIDS Dr. David Jacques, <i>Air Force Institute of Technology</i>	
TRACK 7 Best Practices & Standardization Session 3B7	5808 - FISMA Operational Controls and Their Relationship to Process Maturity Ms. Rhonda Hemming, <i>Harris Corporation</i>	5485 - Executing a Successful CMMI Maturity Level 3 SCAMPI For SPAWAR Systems Center Charleston Mr. Michael Kutch, <i>SPAWAR Systems Center Charleston</i>	CMMI for Services: Re-Introducing the CMMI for Services Constellation Mr. Craig Hollenbach, <i>Northrop Grumman Corporation</i>
TRACK 8 Software Session 3B8	5764 - A Convergence of Technologies for Better Software NOW! Ms. Dorothy Acton, <i>Lockheed Martin ISE&GS</i>	5803 - Identifying Acquisition Patterns of Failure Using System Archetypes Mr. William Novak, <i>Software Engineering Institute</i>	

Break in the Regatta Pavilion

8:00 am - 9:45 am

concurrent sessions

Bayview A	TRACK 1 Systems Engineering Effectiveness Session 3A1	5806 - Investigating the Use of SysML on the FBX-T Radar Program Mr. Chad Schlegler, <i>Raytheon</i>	5536 - A Day in the Life of a Verification Requirement Mr. Stephen Sukanec, <i>Northrop Grumman Corporation</i>
Bayview B	TRACK 2 Test & Evaluation in Systems Engineering Session 3A2	5812 - An Update on the DT&E Committees Recommended Policy Changes to DoD 5000 Col Richard Strackey, <i>USAF, OUSD (AT&L)/SSE/DT&E</i>	5553 - Modeling and Simulation in the Navy Warfare Systems Test & Evaluation Enterprise Ms. Shida Malone, <i>Navy Program Executive Office Integrated Warfare</i>
Bayview C	TRACK 3 Program Management Session 3A3	5523 - Systems Engineering Plan Preparation Guide Update Mr. Chester Bracato, <i>OSD/AT&L/A&T/SSE/ED</i>	5587 - Integrating Risk & Knowledge Management Mr. David Lengyel, <i>NASA</i>
Mission I	TRACK 4 Integrated Diagnostics Session 3A4	5546 - Defining Lean Service and Maintenance Processes Mr. Timothy Olson, <i>Lean Solutions Institute, Inc.</i>	5355 - Modeling Integrated Logistics Systems to Support Transformation in the U.S. Coast Guard Mr. Patrick Cumby, <i>VectorCSP, LLC</i>
Mission II	TRACK 5 Modeling & Simulation Session 3A5	5614 - Live Virtual Constructive (LVC) Architecture Interoperability Assessment Mr. Warren Bizub, <i>USJFCOM</i>	5538 - Advancing the FEDEP for Simulation Based Acquisition Dr. Katherine Morse, <i>SAIC</i>
Mission III	TRACK 6 Net Centric Operations Session 3A6	5497 - Achieving Agility in Cyberspace Mr. Phillip Boxer, <i>Software Engineering Institute</i>	5815 - Distributed Firewalls Mr. Alejandro Gastelum, <i>Northrop Grumman</i>
Palm I	TRACK 7 Best Practices & Standardization Session 3A7	5592 - CMMI—Next Steps Ms. Kristen Baldwin, <i>ODUSD (A&T) SSE/SSA</i>	5743 - CMMI Instructional Challenges to Systems Engineers in Small Settings Dr. Mary Anne Herndon, <i>Transdync Corporation</i>
Palm II	TRACK 8 Software Session 3A8	5526 - Defining Software Component Specifications: An Open Approach Mr. Kenneth Klein, <i>Computer Sciences Corporation</i>	5676 - System Engineering and Software Exception Handling (SEH) Mr. Herbert Hecht, <i>SoHar Incorporated</i>

12:00 pm Lunch in the Regatta Pavilion

Wednesday, October 24, 2007

concurrent sessions

1:30 pm - 3:00 pm

Bayview A	TRACK 1 Systems Engineering Effectiveness Session 3C1	5594 - Handbook on Engineering for System Assurance Ms. Kristen Baldwin, ODUSD (A&T) SSE/SSA	5805 - A Pragmatic Approach for Defining and Utilizing System States and Modes Mr. Mark Minnucchi, Raytheon
Bayview B	TRACK 2 Systems Engineering Effectiveness Session 3C2	5464 - "Do it right, do it early: Do it early, do it right" — Considerations for the Early Stages of Concept, System, and Systems-of-Systems Definition Mr. Jeff Loren, MTC Technologies, Inc. (SAF/AQRE)	5380 - Applications of Systems Engineering to Pre-Milestone A Projects Ms. Lori Zipes, Naval Surface Warfare Center PC
Bayview C	TRACK 3 Program Management Session 3C3	5795 - Lockheed Martin Aeronautics Company Approach to Solving Systemic Development Program Issues Mr. John Weaver, Lockheed Martin Aeronautics Company	5450 - Airborne Signals Intelligence Payload (ASIP) Program Integrated Risk Management Mr. Daniel Bolek, USAF
Mission I	TRACK 4 Logistics, Supportability, and Readiness Session 3C4	5843 - Aging Aircraft Sustainment with Non-Standard Engineering Ms. Kendal Hinton, Georgia Tech Research Institute	5477 - M109 Howitzer Sustainment Mr. Peter Henry, BAE Systems Land and Armaments
Mission II	TRACK 5 Modeling & Simulation Session 3C5	5740 - Leveraging the Integrated Engineering Model (IEM) Process as a Lead Systems Integrator Mr. Anthony Montano, Raytheon Company	5376 - Experiences in Applying SysML to Develop Interoperable Torpedo Modeling and Simulation Components Mr. Thomas Haley, Naval Undersea Warfare Center
Mission III	TRACK 6 Net Centric Operations Session 3C6	5848 - System of Systems Implications for Operational Test Dr. John Colombi, Air Force Institute of Technology	5519 - Case Study: Net Centric Mission Thread Modeling and Analysis Dr. Prem Jain, MITRE
Palm I	TRACK 7 Best Practices & Standardization Session 3C7	5760 - How to Paint a Room: The Role of Specs & Standards in SE Mr. Robert Kubens, USAF	5837 - Continuous Improvement at the Organization, Team, and Individual Levels — Lessons Learned Integrating CMM, TSP and PSP and Why All Three are Needed Mr. Girish Seshagiri, Advanced Information Services, Inc.
Palm II	TRACK 8 Education & Training Session 3C8	5350 - Revitalizing Education and Training in Systems Engineering Dr. Don Gelosh, Department of Defense, OSD(AT&L)/SSE/IED	5501 - Customer-Driven, Partnership-Based Systems Engineering Education and Training Mr. Jerrell Stracener, Southern Methodist University

Break in the Regatta Pavilion

concurrent sessions

3:30 pm - 5:15 pm

TRACK 1 Systems Engineering Effectiveness Session 3D1	5433 - A Practical Application of Structured System Engineering and Failure Mode Effects Analysis to New Technologies Mr. Paul Deniston, Ford Motor Company	5505 - Discussion of the U.S. Army RDECOM AFS Objective Trade Study Mr. Frank Salvatore, High Performance Technologies, Inc.	A Deep Dive into Program Review Findings Mr. Peter Nolte, OUSD/SSE
TRACK 2 Systems Engineering Effectiveness Session 3D2	5593 - Systems Engineering in a Systems of Systems Environment - Defense Update Ms. Kristen Baldwin, ODUSD (A&T) SSE/SSA	5602 - ASW System-of-Systems Engineering Analysis Applied in an LCS ASW Integration Pilot Project Mr. G. Richard Thompson, JHU/APL	5832 - A Brigade Capability Approach to the Evolution of Current Ground Combat Systems Ms. Roberta Desmond, U.S. Army
TRACK 3 Program Management Session 3D3	5434 - Improvements to the Risk Management Process Mr. Doug Atkinson, USAF	5388 - Integrated Risk and Earned Value Management Mr. Paul Davis, Northrop Grumman	5800 - Application of Risk Management Practices to NNSA Tritium Readiness Subprogram Mr. Sham Shete, Washington Savannah River Co.
TRACK 4 Logistics, Supportability, and Readiness Session 3D4	5528 - C-17 Program Applies Systems Engineering to a Large Improvement Project Mr. Brent Theodore, The Boeing Company	5854 - Effective Time on Station (ETOS): The Persistent Performance Metric for Aircraft Systems Mr. Christopher Marchesky, NAVAIR	5575 - Simulation Supported Decision Making Mr. Gene Allen, MSC Software Corporation
TRACK 5 Modeling & Simulation Session 3D5	5835 - Unifying Systems Engineering Simulations Mr. Ryan O'Grady, Cybernet Systems Corporation	5409 - Information Modeling for Systems Integration Ms. Claudia Rose, BBI	5409 - Information Modeling for Systems Integration Ms. Claudia Rose, BBI
TRACK 6 Net Centric Operations Session 3D6	5407 - Quantitative Comparison of Alternative Designs for a JCSM System Mr. Gregory Miller, Naval Postgraduate School	5445 - Advanced Net Centric Simulation for Aerospace Command and Control Ms. Kimberly Kendall, 753d ELSG/NEM, ESC, USAF	5445 - Advanced Net Centric Simulation for Aerospace Command and Control Ms. Kimberly Kendall, 753d ELSG/NEM, ESC, USAF
TRACK 7 System Safety Session 3D7	Addressing Environment, Safety and Occupational Health Issues for the Mine Resistant Ambush Protected (MRAP) Vehicle Program Ms. Jennifer Malone, EG&G	Anatomy of an Award Winning Safety Program: A Case Study of the SSGN OHIO Class Conversion Safety Program Mr. Ricky Milnarik, Electric Boat Corporation	The Safety of Unmanned Systems: The Process Used to Develop Safety Precepts for Unmanned Systems Mr. Mike Demmick, NOSSA
TRACK 8 Education & Training Session 3D8	5873 - Reference Curriculum for a Graduate Program in Systems Engineering Dr. Rashmi Jain, Stevens Institute of Technology	5522 - Application of Systems Engineering Principles in the Design of Acquisition Workforce Curricula Dr. David Olivelli, Naval Postgraduate School	5438 - Autopsy of A Good Systems Engineer - An Endangered Species Mr. Jimmy Thai, SAIC

Thursday, October 25, 2007

concurrent sessions

Bayview A	TRACK 1 Systems Engineering Effectiveness Session 4A1	5499 - A Robust Process for Resolving Interface Design Issues in the Complex Concurrent LCS System Engineering Environment Mr. William Traganza, NAVSEA PMS 485	5785 - UAI Increasing Flexibility Through Data Driven Interfaces Mr. Jonathan Miller, USAF —Aeronautical Systems Center	5785 - Describing Flexibility as an Operational Capability Mr. Owen Edwards, USAF —Aeronautical Systems Center
Bayview B	TRACK 2 Systems Engineering Effectiveness Session 4A2	5675 - Implementing the Technology Maturity Vector Mr. Joseph Terlizze, Systems Engineering Support Office	5443 - Technology Readiness Assessments; Milestone B Certification Requirement for Technologies to be Demonstrated in a Relevant Environment Dr. Jay Mandelbaum, Institute for Defense Analyses	5453 - Meeting Enterprise System Engineering Challenges for the U.S. Next Generation Air Transportation System (NextGen) Mr. Jerry Friedman, The MITRE Corporation
Bayview C	TRACK 3 Program Management Session 4A3	5849 - Managing Requirements to Manage Scope in the Case of MUOS Ms. Christy Howard, Maxxim Systems, Inc.	5867 - Organizational Leadership and Management Dynamics for Technical Execution in Acquisition Programs Mr. Francis Sisti, Aerospace Corporation	5532 - Systems Engineering Approach to Prioritize Projects Mr. Thomas Condron, USAF (516 AESG/ASC)
Mission I	TRACK 4 Logistics, Supportability, and Readiness Session 4A4	5419 - DoD/OSD Sustainment/Readiness Initiatives: Reduction of Total Ownership Costs (RTOC) and Value Engineering (VE) Dr. Danny Reed, Institute for Defense Analyses	5629 - Relating Investment in Reliability Engineering to Reliability Improvement and Reduction of Total Ownership Cost Dr. James Forbes, LMI	5493 - Innovation Strategies for Affordable Readiness Mr. Tom Choinski, Naval Undersea Warfare Center
Mission II	TRACK 5 Modeling & Simulation Session 4A5	5444 - Aircraft Flight Simulator Acceptance Criteria Mr. Dean Carico, NAWCAD PAX	5829 - Computer Modeling to Solve Problems with the T-38 Propulsion Modernization Program Mr. Randall Wimer, USAF - FVB	5397 - Efficacy of Modeling & Simulation in Defense Life Cycle Engineering Mr. Donald Cox, Raytheon Missile Systems
Mission III	TRACK 6 Net Centric Operations Session 4A6	5585 - Testing Concept of Operations in DoD's Net Centric Environment Mr. Steve Reeder, South Carolina Research Authority (SCRA)	5798 - Agile Governance for SOA-Based Military Systems of Systems Mr. Robert Beck, Villanova University	5820 - Reducing Acquisition Costs Through Incremental Upgrades by Migrating to SOA Mr. Tim Greer, Lockheed Martin Corporation
Palm I	TRACK 7 System Safety Session 4A7	5460 - The DoD's Proactive Approach to Emerging Contaminants: Managing Risks Today for Tomorrow's Warfighter and Mission Readiness Dr. Camille LeBlanc, Office of the Deputy Under Secretary of Defense	5439 - Safe-Escape Analysis System Safety Engineering Study Mr. David Hall, SURVICE Engineering Company	5377 - Risk and System Safety in Aerospace Systems Engineering Dr. David Schrage, Georgia Tech
Palm II	TRACK 8 Education & Training Session 4A8	5494 - Development of Systems Engineers in the Sensors & SONAR Systems Department Mr. Lawrence Lazar, Naval Undersea Warfare Center	5617 - Systems Engineering and the Art of Seeing Dr. Robert Monson, Lockheed Martin Corporation	5792 - Understanding Social Networks—A Key Requirement for System Engineers Mr. Karl Selke, Evidence Based Research, Inc.

Break in the Regatta Pavilion

concurrent sessions

TRACK 1 Systems Engineering Effectiveness Session 4B1	5490 - USAF Type Certification of Commercial Derivative Aircraft Mr. Thomas Morgan, USAF	6135 - Global Positioning System Case Study Mr. Randall Ballard, Air Force Center for Systems Engineering
TRACK 2 Systems Engineering Effectiveness Session 4B2	5759 - Sensor Resource Allocation as a Driver in Ballistic Missile Defense System Concept Development Mr. Ravi Moorthy, Lockheed Martin MS2	5369 - Benchmarking Operational Configuration in a Spiral D Development Process: Ballistic Missile Defense System Mr. Hannibal Wright, Barca Strategy and Technology Consulting, LLC
TRACK 3 Program Management Session 4B3	5850 - How to Talk to a Program Manager Dr. John Mishler, Software Engineering Institute	U.S. Department of Defense (DoD) Approach to Best Practices: Building Evidence for Practice Selection Based on Real Experiences Dr. Forrest Shull, Fraunhofer Center Maryland
TRACK 4 Logistics, Supportability, and Readiness Session 4B4	5773 - Implementing a Systems Engineering Risk Program in a Sustainment Environment Mr. James Miller, USAF	5826 - Risk Management and Software Life Cycle Selection Mr. Thomas McDermott, Georgia Tech Research Institute
TRACK 5 Modeling & Simulation Session 4B5	5397 - Efficacy of Modeling & Simulation in Defense Life Cycle Engineering Mr. Donald Cox, Raytheon Missile Systems	5355 - Modeling Integrated Logistics Systems to Support Transformation in the U.S. Coast Guard Mr. Patrick Cumby, VectorCSP, LLC
TRACK 6 Net Centric Operations Session 4B6	5820 - Reducing Acquisition Costs Through Incremental Upgrades by Migrating to SOA Mr. Tim Greer, Lockheed Martin Corporation	5320 - Toward an Intelligent Military Enterprise: An Introduction to an Approach to Joint Forces Based on Meta-Systems Theory Dr. Kent Palmer, UmiSA SEEC
TRACK 7 System Safety Session 4B7	Overview of DoD Environment, Safety and Occupational Health Requirements, Terminology, System Safety Methodology and Risk Assessment Mr. Sherman Forbes, USAF SAF/AQRE	Overview of Environment, Safety and Occupational Health Activities within Systems Engineering Mr. Sherman Forbes, USAF SAF/AQRE

12:00 pm Lunch in the Regatta Pavilion

Thursday, October 25, 2007

concurrent sessions

1:30 pm - 3:00 pm

Bayview A	TRACK 2 <i>Systems Engineering Effectiveness</i> Session 4C2	5814 - Defense System and Large-Scale Systems Based on Terminal Control <i>Mr. Xiang-Wen Xiong, Zhongheng High-Tech Institute, Inc.</i>		
Bayview B	TRACK 4 <i>Logistics, Supportability, and Readiness</i> Session 4C4	5416 - The Deployment Readiness Service: The Challenges of Implementing a Service Oriented Architecture in a Legacy System Environment <i>Mr. George Dalton, USAF</i>		
Bayview C	TRACK 5 <i>Modeling & Simulation</i> Session 4C5	5838 - Generic Sensor Model <i>Dr. Stanley Hack, Lockheed Martin MS-2</i>	5852 - Event Timeline Analysis in Multi Mission Scenarios with System Simulation Models <i>Mr. Ravi Moorthy, Lockheed Martin MS2</i>	5428 - A Prototype Tool for Concept Design Modeling and Optimization of Combat Systems <i>Mr. Vikram Ganesan, General Dynamics Land Systems</i>

Conference Adjourns

Track Chairs

Systems Engineering Effectiveness:

Mr. Al Brown
Ms. Sharon Vannucci
Mr. Bob Lyons

Logistics Supportability & Readiness:

Mr. Chuck Silva
Mr. Joel Moorvich

Test & Evaluation in Systems Engineering:

Col Rich Stuckey, USAF
Mr. Tom Wissink

Program Management:

Mr. Hal Wilson

Modeling & Simulation:

Mr. Jim Hollenbach
Mr. Gary Belie

Net Centric Operations:

Mr. Jack Zavin
Dr. Rich Eilers
Dr. Tom Wickstrom

Best Practices & Standardization:

Mr. Paul Croll

Software:

Dr. Tom Christian

Education & Training:

Mr. George Mooney

Integrated Diagnostics:

Mr. Howard Savage
Mr. Dennis Hecht

Additional Authors

Track	Abstract	Paper Title	Authors
1A1	5305	Are We Ready for CMMI®? If Not, Let's Fix Ourselves	Mr. Al Florence
1A2	5454	Cost As an Independent Variable and Trade Studies	Mr. Ed Casey
1A3	5404	How to Reduce Schedule Uncertainty by Integrating Sound Management Methods with Systems Engineering Best Practices	Mr. Gary Langford
1A4	5498	System Verification Organization Tutorial	Mr. Jeffrey Grady
1A6	5542	Best-In-Class Early Defect Detection and Defect Prevention	Mr. Timothy Olson
1A7	5784	Operational Concepts: Using Cases & Scenarios to Understand User's Needs	Mr. Raymond Jorgensen
1A8	5577	Introduction to SysML & Object Oriented Systems Engineering Methodology (OOSEM)	Mr. Abe Meilich
1C1	5307	Requirements Development and Management	Mr. Al Florence
1C2	5326	Integrating Systems Engineering with Earned Value Management	Mr. Paul Solomon
1C4	5511	Modeling Sustainment and Risk Mitigation for Net-Enabled Realities	Mr. Philip Boxer Ms. Lisa Brownsword Mr. Bill Anderson Mr. Jim Smith
1C5	5540	Introduction to Reliability Analysis	Dr. Meng-Lai Yin
1C6	5544	How to Define Practical Systems Engineering Metrics	Mr. Timothy Olson
1C7	5582	Leading Effective System of Systems (SoS) Technical Reviews	Mr. David Walden
2C1	5378	DoD's Systems Engineering Revitalization Efforts—An Update	Mr. Robert Skalamera Col Richard Hoeferkamp
2C1	5399	The Effectiveness of Systems Engineering: On Federal (DoD) System Development Programs	Mr. Al Mink Mr. Dennis Goldenson Mr. Geoff Draper Mr. Al Brown Mr. Ken Ptack
2C2	5402	A Test Strategy Done Early Drives Test Planning and Successful Testing	Mr. William Lyders
2C2	5503	A Vector Check - Revitalizing DT&E	Mr. Chris DiPetto
2C3	5531	The Joint Partnership Between Program Management and Systems Engineering	Mr. Samuel Son
2C4	5508	Integrated Structural Health Monitoring System Using Lamb Waves	Maj Joerg Walter, USAF Dr. Som Soni
2C4	5797	Environment, Safety, and Occupational Health (ESOH) - Design Considerations to Support Sustainability and Readiness	Ms. Patricia Huheey Ms. Karen Gill
2C5	5421	M&S-Related Guidelines for Contracting	Mr. Michael Truelove
2C5	5446	Implementing the Acquisition M&S Master Plan	Mr. Michael Truelove Mr. Jim Hollenbach
2C5	5606	M&S Planning and Employment Best Practices	Mr. Jim Hollenbach
2C6	5430	The Use of Enterprise Architecture to Support the Development of the Next Generation Air Transportation System (NextGen)	Mr. Jerry Friedman Mr. David Snyder
2C6	5500	Complex Systems of Systems: The Dual Challenge	Mr. Philip Boxer Ms. Lisa Brownsword Mr. Ed Morris
2C7	5491	Systems Engineering Process Improvements at NAVAIR	Mr. Michael Gaydar
2C7	5780	Simplifying & Scaling Engineering Processes: Unifying Business Units and Engineering Disciplines	Mr. Raymond Jorgensen
2D1	5405	Systems Engineering Realization for the Future	Ms. Karen Bausman
2D1	5484	Tools and Resources to Enable Systems Engineering Improvement	Mr. Michael Kutch, Jr. Mr. Michael Knox

2D1	5626	Good Systems Engineering Insures Good Producibility	Dr. Thomas Christian, Jr. Mr. Rich Stepler Mr. Hamid Akhbar
2D2	5489	Applying Design of Experiments Methodology to Sortie Generation Rate Evaluation	Mr. Joseph Tribble Mr. Matthew Rodakis
2D2	5774	Implementing and Measuring Test Program in a Sustainment Environment	Mr. James Miller
2D3	5365	PValue of Systems Engineering: Analysis & Results from Previous and Current Studies of Over 100 System Development Projects	Mr. Allan Mink, II
2D3	5435	Reforming the DoD Acquisition Process - A Systems Engineering Approach	Mr. Stephen Ward Mr. Christopher Perkins
2D3	5779	Applying Systems Engineering During Pre-Acquisition Activities	Lt Col Mark Wilson, USAF Mr. Jeff Loren
2D4	5271	Leveraging EMS for Condition Based Maintenance	Mr. Thomas Hawley
2D4	5287	Sparing Satellites--Comparitive Strategies of In-Orbit & In-Factory Storage	Mr. James Mazzei Mr James Ayers Ms. Camille Keeley Mr. Jon Westergaard
2D4	5368	Real-Time Diagnostics for High Availability Systems	Mr. Edward Beck
2D5	5427	Modeling and Simulation Resource Reuse Business Model	Mr. Dennis Shea Dr. John Hampson
2D5	5603	Modeling and Simulation Support Plan	Mr. David Henry
2D5	6099	Modeling and Simulation Education for the Acquisition Workforce: Requirements Analysis	Mr. David Olwell Ms. Jean Johnson
2D6	5576	Systems Engineering in the Cognitive and Social Domains of Net Centric Operations	Dr. Abe Meilich
2D6		Global Information Grid (GIG), Technical Foundation (GTF) and GIG Compliance Assessment (GICA)	Mr. Brendan Goode
2D6		Global Information Grid (GIG) Performance Assessment Framework	Mr. Tony Modelfino
2D7	5781	Integrating Engineering Project Management and Product Development Processes	Mr. Raymond Jorgensen
2D7	5831	Engineering for System Assurance – Legacy, Life Cycle, Leadership	Mr. Paul Croll
2D8	5315	Requirements for a Chief Software Engineering in a DoD Acquisition Agency	Mr. Al Florence
2D8	5481	Developing An Integrated Process Methodology For Interim Software Releases	Mr. Tim Woods Mr. Jerrell Stracener
3A1	5536	A Day in the Life of a Verification Requirement	Mr. Stephen Scukanec Mr. James van Gaasbeek
3A1	5806	Investigating the Use of SysML on the FBX-T Radar Program	Mr. Chad Schuyler Mr. Mark Minnucci Ms. Caroline Elias
3A1	5824	Change Management of UML-Based Systems Engineering Artefacts	Mr. David Price
3A2	5520	System Test and Evaluation in the DARPA Immune Building Demonstration Program	Mr. Mark Saxon Mr. James Risser
3A2	5553	Modeling and Simulation in the Navy Warfare Systems Test & Evaluation Enterprise	Ms. Shala Malone Mr. Richard Reading
3A3	5523	Systems Engineering Plan Preparation Guide Update	Mr. Chester Bracuto
3A3	5525	Toward a Unified Systems Engineering Plan	Mr. Robert Scheurer
3A3	5587	Integrating Risk & Knowledge Management	Mr. David Lengyel
3A4	5546	Defining Lean Service and Maintenance Processes	Mr. Timothy Olson
3A5	5538	Advancing the FEDEP for Simulation Based Acquisition	Dr. Katherine Morse Mr. Paul Lowe
3A5	5614	Live Virtual Constructive (LVC) Architecture Interoperability Assessment	Mr. Warren Bizub Mr. Ken Goad

3A6	5497	Achieving Agility in Cyberspace	Mr. Philip Boxer Mr. Edwin Morris
3A6	5815	Distributed Firewalls	Mr. Alejandro Gastelum
3A7	5592	CMMI—Next Steps	Ms. Kristen Baldwin Mr. Lawrence Osiecki Dr. Karen Richter
3A7	5743	CMMI Instructional Challenges to Systems Engineers in Small Settings	Dr. Mary Anne Herndon
3A8	5526	Defining Software Component Specifications: An Open Approach	Mr. Kenneth Klein
3A8	5676	System Engineering and Software Exception Handling (SEH)	Mr. Herbert Hecht
3B1	5557	How to Measurably Improve Your Requirements	Mr. Timothy Olson
3B1	5670	Review of the Roles of a System Architect	Mr. Tomasz Lomecki Dr. Dinesh Verma Mr. Eirik Hole
3B1	5865	Case Studies: A Common Language Between Engineers and Managers	Capt DeWitt Latimer IV, USAF
3B2	5473	Joint Mission Environment Test Capability (JMETC)	Mr. Richard Lockhart
3B2	5585	Testing Concept of Operations in DoD's Net Centric Environment	Mr. John Eleazer Mr. Charles Reeder
3B3	5381	Systems Engineering and Program Management – How Different are They?	Ms. Lori Zipes
3B3	5799	Systems Engineering Analysis to Improve Concept Development of Complex Defense Systems	Mr. Michael Harper Mr. Philip Butler Dr. Jerrell Stracener
3B4	5530	Considerations & Propose Approach for Integrating New Hardware and Software into the Legacy Military Aircraft Avionics Systems – a Systems Engineering Lesson-Learned Perspective on the C-17 Program	Mr. Phat Vu
3B4	5903	Asset-Based PBL for Navy Warships – A Case Study for LCS Class Ship	Mr. Michael Mahon
3B4	5954	Integrated Diagnostics Closed Loop Data System (At the Point of Use) (Support Systems Knowledge Engineering Enhances Traditional Support Equipment Systems Engineering)	Mr. Steven Head Mr. John Bauer
3B5	5426	A Methodology for Assessing and Prioritizing the Risks Associated with the Level of Verification, Validation and Accreditation (VV&A) of Models and Simulations	Dr. James Elele
3B5	5431	Standardized Documentation for Verification, Validation, and Accreditation - A Status Report to the Systems Engineering Community	Mr. Kevin Charlow Mr. Curtis Blais Mr. David Broyles Ms. Marcy Stutzman
3B6	5386	Application of Autonomic Agents for Global Information Grid	Mr. David Cox Mr. Youssif Al-Nashif Dr. Salim Hariri
3B6	5847	Architecture-Based Concept Evaluation in Support of JCIDS	Dr. David Jacques Dr. John Colombi
3B7	5485	Executing a Successful CMMI Maturity Level 3 SCAMPI For SPAWAR Systems Center Charleston	Mr. Michael Kutch Ms. Sandra Guidry
3B7	5808	FISMA Operational Controls and Their Relationship to Process Maturity	Mr. Ronda Henning
3B8	5764	A Convergence of Technologies for Better Software NOW!	Mr. Dorothy Acton
3B8	5803	Identifying Acquisition Patterns of Failure Using System Archetypes	Mr. William Novak Dr. Linda Levine
3B8	5883	Acoustic Rapid COTS Insertion (ARCI) Advanced Processor Build (APB) Systems	Mr. Gary Tissandier
3C1	5594	Handbook on Engineering for System Assurance	Ms. Kristen Baldwin Ms. Christine Hines
3C1	5805	A Pragmatic Approach for Defining and Utilizing System States and Modes	Mr. Mark Minnucci Mr. Chad Schuyler Ms. Caroline Elias

3C2	5380	Applications of Systems Engineering to Pre-Milestone A Projects	Ms. Lori Zipes
3C2	5464	"Do it right, do it early; Do it early, Do it right" -- Considerations for the Early Stages of Concept, System, and Systems-of-Systems Definition	Mr. Jeff Loren Lt Col Mark Wilson
3C3	5450	Airborne Signals Intelligence Payload (ASIP) Program Integrated Risk Management	Mr. Daniel Bolek
3C3	5795	Lockheed Martin Aeronautics Company Approach to Solving Systemic Development Program Issues	Dr. John Weaver
3C4	5477	M109 Howitzer Sustainment	Mr. Peter Henry Mr. Daniel Malinowski Mr. Manohar (Manu) Maman
3C4	5843	Aging Aircraft Sustainment with Non-Standard Engineering	Ms. Kendal Hinton Chris Fowler
3C5	5376	Experiences in Applying SysML to Develop Interoperable Torpedo Modeling and Simulation Components	Mr. Thomas Haley
3C5	5740	Leveraging the Integrated Engineering Model (IEM) Process as a Lead Systems Integrator	Mr. Anthony Montano
3C6	5519	Case Study: Net Centric Mission Thread Modeling and Analysis	Dr. Prem Jain Mr. Brian Pridemore
3C6	5848	System of Systems Implications for Operational Test	Dr. John Colombi Dr. David Jacques
3C7	5760	How to Paint a Room: The Role of Specs & Standards in SE	Mr. Robert Kuhnen
3C7	5837	Continuous Improvement at the Organization, Team, and Individual Levels - Lessons Learned Integrating CMM, TSP, and PSP and Why All Three are Needed	Mr. Girish Seshagiri
3C8	5350	Revitalizing Education and Training in Systems Engineering	Dr. Don Gelosh
3C8	5501	Customer-Driven, Partnership-Based Systems Engineering Education and Training	Dr. Jerrell Stracener Dr. Steven Szygenda Mr. James Rodenkirch
3D1	5433	A Practical Application of Structured System Engineering and Failure Mode Effects Analysis to New Technologies	Mr. Paul Deniston
3D1	5505	Discussion of the U.S. Army RDECOM APS Objective Trade Study	Mr. Frank Salvatore
3D2	5593	Systems Engineering in a Systems of Systems Environment - Defense Update	Ms. Kristen Baldwin Dr. Judith Dahmann Mr. Ralph Lowry
3D2	5602	ASW System-of-Systems Engineering Analysis Applied in an LCS ASW Integration Pilot Project	Mr. G. Richard Thompson
3D2	5832	A Brigade Capability Approach to the Evolution of Current Ground Combat Systems	Ms. Roberta Desmond Mr. Kenneth Mick Mr. Rick Burtnett
3D3	5388	Integrated Risk and Earned Value Management	Mr. Paul Davis
3D3	5434	Improvements to the Risk Management Process	Mr. Doug Atkinson Ms. Amy Mercado Vince
3D3	5800	Application of Risk Management Practices to NNSA Tritium Readiness Subprogram	Mr. Sham Shete Mr. Srimi Venkatesh
3D4	5528	C-17 Program Applies Systems Engineering to a Large Improvement Project	Mr. Brent Theodore
3D4	5854	Effective Time on Station (ETOS): The Persistent Performance Metric for Aircraft Systems	Mr. Christopher Marchefsky
3D5	5409	Information Modeling for Systems Integration	Ms. Claudia Rose Mr. Al Brenner Ms. Kim Idol
3D5	5575	Simulation Supported Decision Making	Mr. Gene Allen

3D5	5835	Unifying Systems Engineering Simulations	Mr. Kevin Tang Mr. Glenn Beach Mr. Rakesh Patel Mr. Jason Ueda
3D6	5407	Quantitative Comparison of Alternative Designs for JC3M System	Mr. Gregory Miller Mr. Ian Finn
3D6	5445	Advanced Net Centric Simulation for Aerospace Command and Control	Ms. Kimberly Kendall
3D7		Anatomy of an Award Winning Safety Program: A Case Study of the SSGN OHIO Class Conversion Safety Program	Mr. Ricky Milnarik Mr. Bryan Stanley Mr. Thomas Cook Mr. Norman Gauthier
3D7		Addressing Environment, Safety and Occupational Health Issues for the Mine Resistant Ambush Protected (MRAP) Vehicle Program	Ms. Jennifer Malone
3D7			Mr. Mike Demmick
3D8	5438	Autopsy of A Good Systems Engineer – An Endangered Species	Mr. Jimmy Thai
3D8	5522	Systemic Root Cause Analysis of Acquisition Program Issues	Mr. Dave Castellano Ms. Laura Dwinnell
3D8	5873	Reference Curriculum for a Graduate Program in Systems Engineering	Dr. Rashmi Jain Dr. Dinesh Verma Mrs. Anithashree Chandrasekara
4A1	5499	A Robust Process for Resolving Interface Design Issues in the Complex Concurrent LCS System Engineering Environment	Mr. William Traganza Mr. Joseph Conway Mr. Joseph Darwood
4A1	5785	UAI Part 1: Increasing Flexibility Through Data Driven Interfaces; Part 2: Describing Flexibility as an Operational Capability	Mr. Jonathan Miller Mr. Oren Edwards
4A2	5443	Technology Readiness Assessments; Milestone B Certification Requirement for Technologies To Be Demonstrated in a Relevant Environment	Dr. Jay Mandelbaum
4A2	5453	Meeting Enterprise System Engineering Challenges for the U.S. Next Generation Air Transportation System (NextGen)	Ms. Catherine Bolczak Mr. Robert Humbertson Mr. John Mack Mr. Gerald Friedman
4A2	5675	Implementing the Technology Maturity Vector	Mr. Joseph Terlizze, Jr.
4A3	5532	Systems Engineering Approach to Prioritize Projects	Mr. Thomas Condron Maj Christopher Lardner
4A3	5849	Managing Requirements to Manage Scope in the Case of MUOS	Ms. Christy Howard Ms. Debra Shannon CDR Ralph (Trip) Braund
4A3	5867	Organizational Leadership and Management Dynamics for Technical Execution in Acquisition Programs	Mr. Francis Sisti Captain DeWitt Latimer, IV
4A4	5419	DoD/OSD Sustainment/Readiness Initiatives: Reduction of Total Ownership Costs (R-TOC) and Value Engineering (VE)	Dr. Danny Reed Mr. David Erickson
4A4	5493	Innovation Strategies for Affordable Readiness	Mr. Tom Choinski
4A4	5629	Relating Investment In Reliability Engineering To Reliability Improvement And Reduction Of Total Ownership Cost	Dr. James Forbes Mr. E. Andrew Long
4A5	5444	Aircraft Flight Simulator Acceptance Criteria	Mr. Dean Carico
4A5	5829	Computer Modeling to Solve Problems with the T-38 Propulsion Modernization Program	Mr. Randall Wimer Mr. Andrew Hall
4A6	5798	Agile Governance for SOA-Based Military Systems of Systems	Dr. Robert Beck Ms. Jessica Byrnes Ms. Elliot Sloane Ms. Sue Metzger
4A7	5377	Risk and System Safety in Aerospace Systems Engineering	Dr. Daniel Schrage

4A7	5439	Safe-Escape Analysis System Safety Engineering Study	Ms. David Hall Mr. Kenneth Chirkis
4A7	5460	The DoD's Proactive Approach to Emerging Contaminants: Managing Risks Today for Tomorrow's Warfighter and Mission Readiness	Dr. Carole LeBlanc
4A8	5494	Development of Systems Engineers in the Sensors & SONAR Systems Department	Mr. Lawrence Lazar
4A8	5617	Systems Engineering and the Art of Seeing	Dr. Robert Monson
4A8	5792	Understanding Social Networks- A Key Requirement for System Engineers	Mr. Karl Selke
4B1	5490	USAF Type Certification of Commercial Derivative Aircraft	Mr. Thomas Morgan Mr. Joel Ligon
4B1	6135	Global Positioning System Case Study	Mr. Randall Bullard
4B2	5369	Benchmarking Operational Configuration in a Spiral Development Process: Ballistic Missile Defense System	Mr. Hannibal Wright
4B2	5759	Sensor Resource Allocation as a Driver in Ballistic Missile Defense System Concept Development	Mr. Ravi Moorthy Mr. Jay Davidson Mr. Mark Russel
4B3	5850	How to Talk to a Program Manager	Ms. Anita Carleton Dr. William Nichols Dr. John Mishler
4B4	5773	Implementing a Systems Engineering Risk Program in a Sustainment Environment	Mr. James Miller
4B4	5826	Risk Management and Software Life Cycle Selection	Mr. Thomas McDermott
4B5	5355	Modeling Integrated Logistics Systems to Support Transformation in the U.S. Coast Guard	Mr. Patrick Cumby
4B5	5397	Efficacy of Modeling & Simulation in Defense Life Cycle Engineering	Mr. Donald Cox Dr. Salim Hariri
4B6	5320	Toward an Intelligent Military Enterprise: An Introduction to an Approach to Joint Forces Based on Meta-Systems Theory	Dr. Kent Palmer
4B6	5820	Reducing Acquisition Costs Through Incremental Upgrades by Migrating to SOA	Mr. Tim Greer
4B7		Overview of DoD Environment, Safety and Occupational Health Requirements, Terminology, System Safety Methodology and Risk Assessment	Mr. Sherman Forbes
4B7		Overview of Environment, Safety and Occupational Health Activities Within Systems Engineering	Mr. Sherman Forbes
4C2	5814	Defense System and Large-Scale Systems Based on Terminal Control	Mr. Xiang-Wen Xiong
4C4	5416	The Deployment Readiness Service: A Case Study of the Challenges of Implementing a Service Oriented Architecture in a Legacy System Environment	Mr. George Dalton, II Dr. Robert Mills
4C5	5428	A Prototype Tool for Concept Design Modeling and Optimization of Combat Systems	Mr. Vikram Ganesan Mr. Philip Morgan
4C5	5838	Generic Sensor Model	Dr. Stanley Hack Dr. Josef Keith
4C5	5852	Event Time Line Analysis in Multi Mission Scenarios with System Simulation Models	Mr. Ravi Moorthy Mr. Paolo Trinchieri Mr. Todd Brown

Displays

**California Institute of Technology
Industrial Relations Center**

Defense Acquisition University

Defense Acquisition University, West Region

Georgia Tech Research Institute

Headquarters Air Force Material Command

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