CONFERENCE OVERVIEW

This conference is sponsored by the National Defense Industrial Association, Systems Engineering Division, with technical co-sponsorship by IEEE AES, IEEE Systems Council and the International Council on Systems Engineering, and is supported by the Office of Under Secretary of Defense for Acquisition, Technology and Logistics, Director, Defense Research and Engineering, and the Office of the DoD Chief Information Officer.

This conference seeks to create an interactive forum for Program Managers, Systems Engineers, Chief Scientists and Engineers and Managers from the Requirements, Design, Verification, Support, Logistics and Test communities from Government, Academia, and Industry. The conference will provide the opportunity to shape policy and procedures by exchanging innovative tactics and lessons learned.

BACKGROUND

The Department of Defense continues to work to improve the acquisition of military equipment and capability to assist the warfighter in protecting the U.S. and its allies, and help oppressed nations around the world, amidst continuously changing conditions and threats. The DoD seeks to improve the acquisition process and overall program execution of military systems, to provide greater, more effective and reliable warfighting capability, at affordable cost and within reasonable schedules.

One of the primary and critically important areas of program acquisition and execution lies in the umbrella discipline of Systems Engineering, which is the overall integrating function in defense programs, from proper requirements definition and flowdown, effective and affordable design that integrates reliability, availability and maintainability considerations into the overall balance of design that emphasizes supportability and usage aspects along with overall performance, cost and schedule. Systems Engineering principles embody strong technical and risk management aspects, for both the acquiring program office as well as the executing defense prime and subcontractors. Strong emphasis on systems engineering throughout the life cycle of the program, from concept development through sustainment, is a key enabler of successful programs. The annual Systems Engineering Conference explores the role of systems engineering in defense programs from all aspects and perspectives, including the pragmatic, practical and academic viewpoints, and brings key practitioners together to work on effective solutions to achieving a successful warfighting force.

2011 CALL FOR PAPERS INFORMATION

The primary objective of the 14th Annual Systems Engineering Conference is to provide insight, information and lessons learned into how we can improve the overall performance of defense programs via a better, more focused application of systems engineering that will lead to more capable, interoperable and supportable weapon systems for the warfighter, with reduced total ownership costs, to help our military meet its current and new mission area and capabilities requirements. Technical and management presentations are a key tactic in achieving this objective. You are invited to submit a short (under 300 word) abstract of a presentation for a session (see topics on the website). Abstracts must fully describe the planned content and how the presentations will advance the objectives of the conference and session. All accepted presentations will be delivered at the conference in electronic format; full papers are optional and are not required.

Abstracts must include the following administrative information: presentation title, author’s name, title, e-mail address, phone number, mailing address and organization and the conference session targeted. Abstracts must be submitted no later than Sunday, May 30, 2010 via the following web link:

http://application.ndia.org/abstracts/2870

Abstracts will only be accepted through this web link, and all required information must be completed. Upon completion of the required information, you will receive an e-mail confirmation.

**Conference presenters are not exempt from registration and conference fees.

CONFERENCE PROCEEDINGS

Proceedings will be available on the web through the Defense Technical Information Center (DTIC), and will be available one to two weeks after the conference. You will receive notification via e-mail once proceedings are posted and available on the web.
2010 LT GEN THOMAS R. FERGUSON, JR. SYSTEMS ENGINEERING EXCELLENCE AWARD

The National Defense Industrial Association’s Systems Engineering Excellence Awards were established in 2003 to honor the memory of Lt Gen Thomas R. Ferguson, Jr., USAF, whose leadership embodied the highest ideals in Defense Systems development and deployment.

The awards are given to an individual and to a group demonstrating outstanding achievement in the practical application of Systems Engineering principles, promotion of robust systems engineering principles throughout the organization, or effective systems engineering process development during the previous year. Their systems engineering contributions should have demonstrably helped achieve significant cost savings due to new or enhanced processes procedures and/or concepts, increased mission capabilities, or substantially increased performance. The 2010 awardees are:

- Systems Engineering Individual Leadership Award: Mr. Harold (Hal) Wilson
- Systems Engineering Group Award: MDA Airborne Laser TestBed Systems Engineering Division
- Systems Engineering Group Award: CECOM Second Generation Forward Looking Infrared Program

PAST AWARD WINNERS:

2003:
- Systems Engineering Individual Leadership Award: Mr. Robert Rassa

2004:
- Systems Engineering Individual Leadership Award: Honorable Mike Wynne

2005:
- Systems Engineering Individual Leadership Award: Mr. Mark Schaeffer

2006:
- Systems Engineering Individual Leadership Award: Mr. Kelly Miller
- Systems Engineering Individual Practitioner Award: Mr. David Stribling
- Systems Engineering Group Award: NUWC Division Newport Critical Transducer Program Staff

2007:
- Systems Engineering Individual Leadership Award: Mr. Robert Skalamera
- Systems Engineering Group Award: Submarine Warfare Federated Tactical System Team

2008:
- Systems Engineering Individual Leadership Award: Honorable James Finley
- Systems Engineering Group Award: Tactical Direction Agent Team for LCS Mission Package Project

2009:
- Systems Engineering Individual Leadership Award: Mr. Brian Wells
- Systems Engineering Group Award: Center for Advanced Life Cycle Engineering

CONTACTS
Technical Program Co-Chairs:
Mr. Steve Henry:
Manager, Systems Engineering and Program Support, Northrop Grumman Information Systems, stephen.henry@ngc.com, (703) 561-5724

Dr. Tom Christian,
ASC/EN,
thomas.christian@wpafb.af.mil, (478) 926-2457

Conference Chair:
Mr. Bob Rassa,
Director, Engineering Programs, Space & Airborne Systems, Raytheon Company; Chair, Systems Engineering Division, NDIA, rcrassa@raytheon.com, (310) 985-4962

Meeting Planner:
Ms. Taryn Crowder,
NDIA, tcrowder@ndia.org, (703) 247-2566

Conference Director:
Mr. Sam Campagna, Assistant Vice President, Operations,
NDIA, scampagna@ndia.org, (703) 247-2544

ATTIRE
Appropriate dress for this conference is business casual for civilians and class B uniform for military. Badges must be worn at all conference functions.

CONTINUING EDUCATION UNIT CREDIT
NDIA is offering CEU credit options for the Systems Engineering Conference. Earn 1 unit per 10 hours for $45. For more information, please contact Ms. Taryn Crowder at (703) 247-2566 or tcrowder@ndia.org.
DEPARTMENT OF DEFENSE AND THE NATIONAL DEFENSE INDUSTRIAL ASSOCIATION
2009 DoD SYSTEMS ENGINEERING TOP 5 PROGRAM AWARDS

The Department of Defense Executive Agent for Systems Engineering and the Systems Engineering Division of the National Defense Industrial Association are pleased to announce the selections of the 2009 Top 5 Department of Defense Program Awards. The 2009 Program awardees are:

- Base Expeditionary Target & Surveillance System - Combined: Department of the Army
- Advanced Field Artillery Tactical Data System: Department of the Army; Raytheon Company
- C-17 Globemaster III Modernization: Department of the Air Force; The Boeing Company
- Defense Readiness Reporting System - Army: Department of the Army; Lockheed Martin IS&GS Defense; Accenture National Security Services
- Battlefield Airborne Communications Node Joint Urgent Operational Need: Department of the Air Force; Northrop Grumman Information Systems

The Awards are presented to both the DoD project office and the industry prime contractor in recognition of total program performance in a DoD/industry team effort.

PAST AWARD WINNERS:

2005 Top 5 Department of Defense Programs:
- Centaur
- Integrated Exploitation Capability
- P-8A Multi Mission Maritime Aircraft
- Mission INtegration & Development
- Tomahawk Weapons System Program PMA-280

2006 Top 5 Department of Defense Programs:
- Advanced Extremely High Frequency Mission Control System
- Advanced Field Artillery Tactical Data System
- DDG 1000 MK57 Vertical Landing System
- Portable Excalibur FCS

2007 Top 5 Department of Defense Programs:
- Effects Management Tool
- MH-60 R/S Link 16
- Mortar Fire Control System - Dismounted

2008 Top 5 Department of Defense Programs:
- Wideband Global SATCOM
- Joint Light Tactical Vehicle
- STRYKER Modernization
- Broad Area Maritime Surveillance Unmanned Aircraft
- Aviation Maintenance Training Continuum System
CONFERENCE AGENDA
SUNDAY, OCTOBER 24, 2010
5:00 pm - 7:00 pm
REGISTRATION FOR TUTORIALS AND GENERAL CONFERENCE IN THE BAYVIEW FOYER

MONDAY, OCTOBER 25, 2010
7:00 am - 6:00 pm
REGISTRATION IN THE BAYVIEW FOYER
7:00 am - 8:00 am
CONTINENTAL BREAKFAST ON THE BAYVIEW TERRACE (TUTORIAL ATTENDEES ONLY)
8:00 am - 12:00 pm
TUTORIAL TRACKS - Please refer to the following pages for session schedule
9:45 am - 10:15 am
MORNING BREAK ON THE BAYVIEW TERRACE (TUTORIAL ATTENDEES ONLY)
12:00 pm - 1:00 pm
LUNCH IN THE REGATTA PAVILION (TUTORIAL ATTENDEES ONLY)
1:00 pm - 5:00 pm
TUTORIAL TRACKS CONTINUED - Please refer to the following pages for session schedule
2:45 pm - 3:15 pm
AFTERNOON BREAK ON THE BAYVIEW TERRACE (TUTORIAL ATTENDEES ONLY)
5:00 pm - 6:00 pm
RECEPTION IN THE REGATTA PAVILION - OPEN TO ALL CONFERENCE ATTENDEES

TUESDAY, OCTOBER 26, 2010
7:00 am - 5:15 pm
REGISTRATION IN THE BAYVIEW FOYER
7:15 am - 8:15 am
CONTINENTAL BREAKFAST IN THE REGATTA PAVILION
8:15 am - 8:30 am
INTRODUCTION & OPENING REMARKS
  ▶ Mr. Sam Campagna, Assistant Vice President, Operations, NDIA
  ▶ Mr. Bob Rassa, Director, Engineering Programs, Space & Airborne Systems, Raytheon Company; Chair, Systems Engineering Division, NDIA
8:30 am - 9:30 am
KEYNOTE ADDRESS
  ▶ Lt Gen Richard Scofield, USAF (Ret), former Commander, Aeronautical Systems Center and Wright Patterson Air Force Base
9:30 am - 10:00 am
MORNING BREAK IN THE REGATTA PAVILION
10:00 am - 12:00 pm
PLENARY SESSION 1 - CHIEF SYSTEMS ENGINEERS PANEL
  Engineering Complex Systems of the Future
  Moderator: Mr. James Thompson, Director, Major Program Support, Systems Engineering Directorate, Office of the Director, Defense Research and Engineering
  ▶ Mr. Terry Edwards, Office of the Secretary of the Army for Acquisition, Logistics and Technology
  ▶ Mr. Ricardo Cabrera, Office of the Assistant Secretary of the Navy for Research, Development and Acquisition
  ▶ Col Shawn Shanley, USAF, Office of the Deputy Assistant Secretary of the Air Force for Science, Technology, and Engineering
12:00 pm - 1:30 pm
LUNCH WITH SPEAKER IN THE REGATTA PAVILION
  ▶ Mr. Stephen Welby, Director, Systems Engineering, Office of the Director, Defense Research and Engineering
TUESDAY, OCTOBER 26, 2010 - CONTINUED

1:30 pm - 3:00 pm
PLENARY SESSION 2 - PROGRAM MANAGER PANEL
*Systems Engineering Discipline: Foundation for Program Success?*

**Moderator:** Col Leslie Blackham, USAF, Military Assistant, Systems Engineering Directorate, Office of the Director, Defense Research and Engineering
- Dr. Gary Notte, Product Director, Fire Support Command and Control, U.S. Army
- LTC Todd Lamb, USA, Product Manager, Stryker Development
- CAPT Michael E. Jabaley, Jr., USN, Program Manager, VIRGINIA Class Submarines (PMS 450)
- CAPT Rick Muldoon, USN, Program Manager, H-53 Heavy Lift Helicopters (PMA-261)
- Col Janet L. Kasmer, USAF, Deputy Director, Global Reach Programs (SAF/AQQ)
- Col Donald W. Robbins, USAF, Commander, Wideband SATCOM Group

3:00 pm - 3:15 pm
**AFTERNOON BREAK IN THE REGATTA PAVILION**

3:15 pm - 5:15 pm
PLENARY SESSION 3 - INDUSTRY EXECUTIVES PANEL
*Challenges of Complex Systems: Need for Systems Engineering*

**Moderator:** Mr. Bob Rassa, Director, Engineering Programs, Space & Airborne Systems, Raytheon Company
- Mr. Brian Wells, Vice President, Engineering, Raytheon Company
- Mr. Paul Zavidniak, Technical Fellow, Director, Technology and Strategy, Airborne and Maritime Systems, Northrop Grumman
- Mr. Patrick Goggin, Vice President, Development Program Excellence, Chief Engineer SoCal Regional Engineering Boeing Defense, Space & Security

5:15 pm - 6:30 pm
**RECEPTION IN THE REGATTA PAVILION**

WEDNESDAY, OCTOBER 27, 2010

7:00 am - 5:15 pm
**REGISTRATION IN THE BAYVIEW FOYER**

7:00 am - 8:00 am
**CONTINENTAL BREAKFAST IN THE REGATTA PAVILION**

8:00 am - 12:00 pm
**CONCURRENT SESSIONS - Please refer to the following pages for session schedule**

9:45 am - 10:15 am
**MORNING BREAK IN THE REGATTA PAVILION**

12:00 pm - 1:30 pm
**NDIA/DoD AWARDS LUNCH IN THE REGATTA PAVILION**
- DoD Systems Engineering Top 5 Program Awards
- NDIA Lt Gen Thomas Ferguson Awards for Group and Individual Excellence in Systems Engineering

1:30 pm - 5:15 pm
**CONCURRENT SESSIONS - Please refer to the following pages for session schedule**

3:15 pm - 3:30 pm
**AFTERNOON BREAK IN THE REGATTA PAVILION**

5:15 pm
**WEDNESDAY SESSION ADJOURNS**

THURSDAY, OCTOBER 28, 2010

7:00 am - 3:30 pm
**REGISTRATION IN THE BAYVIEW FOYER**

7:00 am - 8:00 am
**CONTINENTAL BREAKFAST IN THE REGATTA PAVILION**

8:00 am - 12:00 pm
**CONCURRENT SESSIONS - Please refer to the following pages for session schedule**

9:45 am - 10:15 am
**MORNING BREAK IN THE REGATTA PAVILION**

12:00 pm - 1:30 pm
**LUNCH WITH SPEAKER IN THE REGATTA PAVILION**
*Systems 2020*
- Ms. Kristen Baldwin, Director, Systems Analysis, Systems Engineering Directorate, Office of the Director, Defense Research and Engineering

1:30 pm - 3:30 pm
**CONCURRENT SESSIONS - Please refer to the following pages for session schedule**

3:30 pm
**CONFERENCE ADJOURNS**
## MONDAY, OCTOBER 25, TUTORIAL SESSIONS

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**SESSION CHAIR**

- Track 9: Systems Engineering: Challenges and Opportunities
- Track 10: Logistics
- Track 11: Human Systems Integration and System Performance

**SESSIONS**

- Track 9: Human Systems Integration and System Performance
- Track 10: Logistics
- Track 11: Systems Engineering: Challenges and Opportunities

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- Track 9: Systems Engineering: Challenges and Opportunities
- Track 10: Logistics
- Track 11: Human Systems Integration and System Performance
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<td>Dr. Don Gelosh, ODDR&amp;E/SE</td>
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| TRACK 5 | Modeling &amp; Simulation Mission II | 10922 - The Modeling and Simulation Catalog for Discovery, Knowledge and Reuse | Mr. Steve Hunt, Aliion Science and Technology |
| TRACK 4 | Early Systems Engineering Mission I | 10507 - Developing a Network-Centric Mission Architecture: From Mission Analysis to Executable Model | Mr. James Sierchio, Raytheon Missile Systems |
| TRACK 4 | Early Systems Engineering Mission I | 11466 - Applying NATO’s Distributed Networked Battle Labs (DNBL) Initiative to Early Systems Engineering | Mr. Hans Polzer, Lockheed Martin |
| TRACK 4 | Early Systems Engineering Mission I | 10784 - Suitability Impacts on Rapid Development | Mr. Michael Gaydar, NAVAIR |
| TRACK 4 | Early Systems Engineering Mission I | 10955 - Network Centric Patterns for System Interoperability | Mr. Mark Bowler, The Boeing Company |
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| TRACK 4 | Early Systems Engineering Mission I | 10913 - Systems Engineering Initiatives for Verification, Validation, and Accreditation of DoD Models and Simulations | Ms. Philomena Zimmerman, ODDR&amp;E/SE |
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| TRACK 4 | Early Systems Engineering Mission I | 11063 - Best Practices in Contracting for Models, Simulations, and Associated Data Subcommittee Report | Mr. Dennis Shea, Center For Naval Analyses |
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<td>10698 - Systems Assurance in the Age of Open Source Technology Mr. Edward Beck, MSE, LLC</td>
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<td>10742 - The Future of Open Source Software (OSS) in DoD Dr. Charles Byler, Whitfill CTSF</td>
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<td>10840 - Assessment of Integration Risk Within the Department of Defense for Major Acquisition Programs Mr. Jim Thompson, ODDR&amp;E/SE</td>
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<td>Mr. Jeffrey Grady, JOGF System Engineering, Inc.</td>
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<td>Mr. Peter Forsch, Northrop Grumman Aerospace Systems</td>
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<td>Mr. Tim Bowden, Jenius LLC</td>
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<td>10996 - DoD Delivering the Architecture of the Future</td>
<td>Mr. Alan Golombek, Architecture &amp; Infrastructure Directorate</td>
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<td>Mr. William Decker, Defense Acquisition University</td>
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<td>Ms. Janet McKinney, Naval Surface Warfare Center, Dahlgren Division</td>
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<td>10816 - Radar Open Architectures</td>
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<td>10785 - Risk Management in the TACOM LCMC</td>
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<td>Mrs. Sarit Assaraf</td>
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