

13TH ANNUAL SYSTEMS ENGINEERING CONFERENCE

Call for Papers and Conference Announcement

- ▶ *Abstract and Tutorial Submissions are due by Sunday, May 30, 2010*



OCTOBER 25-28, 2010

WWW.NDIA.ORG/MEETINGS/1870

HYATT REGENCY MISSION BAY ▶ SAN DIEGO, CA

EVENT #1870

► ANNOUNCEMENT

A major conference focusing on improving acquisition and performance of Defense programs and systems, including net-centric operations and data/information interoperability, system-of-systems engineering and all aspects of system sustainment, will be convened in San Diego, CA, October 25-28, 2010. 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, Systems Engineering, and Office of the DoD Chief Information Officer.

► BACKGROUND

The Department of Defense continues to seek ways 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 in a complex environment of ever-changing threats and conditions. The recently enacted Weapon Systems Acquisition Reform Act (WSARA) of 2009 defines Systems Engineering as a key player in helping effect improvements in defense acquisition and program execution, to achieve more effective and affordable military systems. Systems Engineering is the “umbrella” engineering function that serves as the key integrating function for successful program execution and helping maintain the balance between requirements, performance, cost, schedule, and overall effectiveness and affordability. System Engineering principles embody strong technical and risk management aspects, for the acquiring program office as well as the prime and subcontractors. Strong emphasis on systems engineering throughout the program, especially in early development planning, is a key enabler of successful programs and fielded defense systems. The Annual Systems Engineering Conference explores the various roles of systems engineering from all aspects and perspectives – pragmatic, practical and academic – and brings key practitioners together to work on effective solutions to achieve a successful warfighting force.

► CONFERENCE OBJECTIVES

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 both Government and Industry. The conference will provide the opportunity to shape policy and procedures by exchanging innovative tactics and lessons learned.

OBJECTIVES INCLUDE:

- *Implications of Weapon System Acquisition Reform Act of 2009*
- *Early Development Planning*
- *Architecture*
- *Interoperability & Systems Integration*
- *Systems-of-Systems Systems Engineering and Network Centric Operations*
- *Systems Engineering Effectiveness*
- *Aging Aircraft*
- *Sustainment & Upgrade of Legacy Systems*
- *Life Cycle Systems & Program Management*
- *Performance-based Logistics*
- *Integrated Diagnostics/Prognostics/Enterprise Health Management*
- *Improve Cycle Times for Design, Manufacture & Repair Processes*
- *Improve Mission Readiness & Systems Availability*
- *Systems Engineering Education & Training*
- *Modeling & Simulation*
- *Application of Industry “Best Practices” Tools, Methodologies & Technologies*
- *Capability Maturity Model Integration (CMMI®)*
- *Integrated Risk Management*
- *Application of DoD Initiatives: Simulation-based Acquisition; Performance-based Business Environment (PBBE); COTS Integration; System Safety; Open Systems*
- *System Safety and Environmental Safety & Operational Health*
- *Planning for Test & Evaluation*
- *Role of SE in IV&V*

TOPIC SESSIONS INCLUDE:

- ▶ *Implications of WSARA 2009*
- ▶ *Early Development Planning*
- ▶ *Effective Test & Evaluation*
- ▶ *Architecture*
- ▶ *Executive Overview*
- ▶ *Systems Engineering Effectiveness*
- ▶ *Logistics Systems*
- ▶ *Keeping Legacy Systems Viable*
- ▶ *Integrated Diagnostics*
- ▶ *Best Practices and Standardization*
- ▶ *Modeling & Simulation*
- ▶ *Test & Evaluation in Systems Engineering*
- ▶ *Net-Centric Operations*
- ▶ *Software*
- ▶ *Affordable Readiness & Reduction of Total Ownership Cost*
- ▶ *SE Workforce Development, Education & Training*
- ▶ *Program Management*
- ▶ *Technology Maturity Measurement*
- ▶ *Human Systems Integration - HSI*

Technical Program Chairs:

Mr. Steve Henry, Principal Engineer, Northrop Grumman Mission Systems,
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Dr. Tom Christian,
ASC/EN,
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Conference Chair:

Mr. Bob Rassa, Director,
Engineering Programs,
Raytheon Space & Airborne
Systems; Chair, Systems
Engineering Division, NDIA,
rcrassa@raytheon.com,
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Meeting Planner:

Ms. Taryn Crowder, NDIA,
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(703) 247-2566.

▶ CALL FOR PAPERS

The primary objective of the 13th 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. To this end, you are invited to submit a short (under 300 words) abstract of a presentation for a session as listed to the left. 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/1870>

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 precluded from registration and conference fees.

▶ TUTORIAL PROPOSALS

On Monday, October 25, 2010, we will conduct a series of systems engineering, interoperability, modeling & simulation and best practices tutorials. Tutorial proposals should be submitted just as abstract submittals through the web link provided above. **Please indicate that the submittal is for a tutorial.** Tutorials can either be a half or full day, depending on the content, and should relate to the subject matter of the conference. Tutorial proposals must be submitted by **Sunday, May 30, 2010.**

▶ DISPLAY INFORMATION

An area will be available for the setup of company or organization displays to demonstrate your company or organization's unique tools or capabilities. The registration fee of \$1,500 includes one individual registration, table, chair and electrical hook-up. Displays will be tabletop or "pop-up" style. Allocated display space will be 10 ft. wide by 6 ft. deep. Although computer systems for demonstration are OK, minimal hardware should be utilized. No formal decorating company will be involved. Companies must bring their own displays and plan to do their own set-up. Standard draped folding table and chair will be provided for each display space. Display registration forms can be downloaded from the conference website: www.ndia.org/meetings/1870.



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**TO REGISTER, VISIT:
WWW.NDIA.ORG/MEETINGS/1870**