



# CALL FOR PAPERS

## ASNE Automation & Controls Symposium 2010

### “Commonality & Open Architecture for Naval Ship Control Systems”

August 10-11, 2010

Midwest Airlines Center, Milwaukee, WI

The **ASNE Automation & Controls Symposium 2010** has been established to serve as a forum for the exchange of innovative ideas relating to the automation and integration of naval machinery and ship control systems. The symposium promotes the exchange of ideas and information in a professional engineering environment with attendees from U.S. Navy, U.S. Coast Guard, U.S. Military Sealift Command, industry, and academia. The theme for Automation & Controls Symposium 2010 is **“Commonality and Open Architecture for Naval Ship Control Systems.”**

The Navy initiative for commonality is crucial for the success of both the Current Navy and the Next Navy. While the theme of commonality has been stressed in naval shipbuilding programs going back to the 1980's and again in the 1990's, the recent NAVSEA Commonality and Open Architecture initiatives have set the table for real life-cycle cost reductions in all phases of a naval vessel's service life. Open Architecture has brought to the forefront the need to adhere to commonly accepted protocols and interfaces, as well as an overall modularity approach in form, fit and function. Commonality, building on the foundation Open Architecture has provided, is now poised to help the Navy realize the increased readiness and decreased lifecycle costs they are seeking in order to meet their requirements in a fiscally constrained environment.

Papers should include topics about marine Machinery Control and Ship Control Monitoring and Automation as they relate to Commonality and Open Architecture. This includes Control System Building Blocks, Components, Architectures, Interfaces, Protocols, Support, Design, Development and Test Practices and Principles.

#### Topic areas to be presented:

- NAVSEA Commonality Initiatives and Business Models
- NAVSEA Commonality Shelf Deliverables and Industry
- Naval Open Architecture, Commonality, and Intellectual Property Rights
- Commonality and Contract Procurement
- Modular Open Systems Approach
- Open Architecture (OA)/ OA Computing Environment (OACE) Standards
- ABS NVR, HSVR, and SVR
- Integrated Platform Management Systems
- Machinery Control Systems Components and Platforms
- Automated Machinery Control and Integrated Bridge Systems
- Local and Embedded Controllers for Machinery Systems
- Common Display Systems (CDS) Consoles and Workstations
- Common Processing Systems (CPS)
- Common and Open Interfaces and Protocols
- Common Networks and Machinery Controls
- Battle Damage Control System Integration
- CCTV Systems Integration
- Historical and Real-time Data Acquisition Systems
- Standards for Naval HMI Software
- Automation and Human Systems Integration Issues
- Simulation and Test
- Online Documentation and Help Systems
- On-Board Training
- Distance Support
- Automation & Control Case Studies
- Control of Integrated Electrical Systems
- Other related topics

**Abstracts should be sent in the MS Word format (or compatible) to [ACS-Papers@navalengineers.org](mailto:ACS-Papers@navalengineers.org).**

#### Abstracts should include:

Proposed Title,  
Authors Name and Organization,  
Primary POC Info (Phone, Email, Address),  
Detailed Paragraph of what the topic addresses

#### Direct questions to:

Jeffrey Cohen, Technical Paper Committee Chair  
[jeffrey.b.Cohen@navy.mil](mailto:jeffrey.b.Cohen@navy.mil), (215) 897-7149

#### Important Dates:

15 February 2010 - Abstracts due  
March 2010 - Notification of acceptance  
15 May 2010 - Draft Papers due