TUESDAY, FEBRUARY 14, 2017

0900 - 1000 Audit Committee Meeting (Tidewater 2)

0930 - 1030 Technical Papers: Design (Potomac 2-4)
Moderator: Mr. James Dowd
- A Framework to Improve Systems Integration in Shipbuilding Programs Having Simultaneous Detail Design and Production
  Fatma Nur Alkas, Dr. Michael Grenn, and Dr. Blake Roberts
- Design and Operational Enhancement through Integrated Recoverability Model Feedback
  Dr. John A. Waltham-Sajdak and R. Gregg Fresa
- Optimizing Acquisition Results Through Simple Integration Readiness Metrics
  Zuhal Tompkins, Dr. Michael Grenn, and Dr. Blake Roberts
- Point-Based versus Set-Based Design Methods for Robust Ship Design
  Dr. Alexander Gray, Dr. Douglas Rigterink, and Nicholas Mullican

Technical Papers: Power and Energy (Potomac 6)
Moderator: Dr. Matthew Collette
- Parallel-Cell Current Sharing and its Effect on the Expected Lifetime of a Battery Pack for Directed Energy Systems
  B.M. Huhman, J.M. Heinzel, L. Mili, and D.A. Wetz
- Improving Stability in Shipboard DC Power Systems with Constant Power Loads
  LCDR Adam J. Mills and Dr. Robert W. Ashton
- Controls and Standards for Interoperable Wireless Power Transfer in Unmanned and Autonomous Systems
  Dr. Alex Phipps, Dr. Maxwell Kerber, and Dr. Graham Sanborn

Technical Papers: Innovative Technology (Washington A)
Moderator: LCDR Jeffrey Chonko, USCG
- Creating the Fleet Maker: a 3D Printing-centered STEM Learning Environment for the Stimulation of Innovative Thinking and Empowerment of Sailors
  Dr. M.A. Audette, Dr. V. Jovanovic, Dr. O. Bilgen, Dr. K. Arcaute, and Dr. A.W. Dean
- Stern2STEM: Implementation of a Feed Forward Model for Educational Game Development
  Patrick Heaney, Katherine Smith, John Shull, Brian Eller, Dr. Anthony Dean, Dr. Yuzhong Shen, and Dr. Jennifer Michaeli
- Advanced Speech Recognition for Naval Systems and Ships
  Cynthia Hoyt
- LightSpeed AN/PAQ-6 for EMCON
  Greg Hays

Technical Papers: Cyber (Conference Theater)
Moderator: Dr. Robert Sielski
- Cyber Analytics Reference Architecture
  Tim Lunderman and John Sprague
- Network as a Cyber Security Sensor & Enforcer
  Joe Beel and Doug Moore
- Securing Next Generation Data Centers
  Joe Beel and Kelly Jones
- Cyber/Security Engineering in System of Systems
  Minal Mangra

1000 - 1200 ASNE Sections Meeting (Tidewater 2)

1200 - 1245 Technical Keynote (Potomac 2-4)
- RADM David Hahn, USN; Chief of Naval Research
Light refreshments available
Sponsored by American Bureau of Shipping (ABS)
1300 - 1500  
**Technical Papers: Design and Modularity** *(Conference Theater)*

**Moderator:** Ms. Cynthia Hoyt

- AVT-RTG-238: A NATO-effort to enable early stage warship design for effectiveness and affordability  
  Bart van Oers, Kelly Cooper, Francesco Perra, and Janel Nixon
- Common Hull Auxiliary Multi-mission Platform Design Process  
  C. Henry Dorger, Matthew Houlahan, and Madeleine Leland
- Examining the Modularity and Commonality of SeaWatch - the U.S. Coast Guard’s Command and Control System  
  LCDR Jeffrey J. Chonko, LCDR Jonathan D. White, and Andrew Lambley
- Laser Based Fiber Optic Distributed Lighting Networks for Flexible and Reconfigurable Ships’ Illumination  
  Giovanni Tomasi

**Technical Papers: Monitoring** *(Potomac 6)*

**Moderator:** Dr. Michel Audette

- A Smarter Tactical Decision Aid  
  LT Gregory Bredariol, USCG, LT Kevin Stevens, USCG, Joshua Nation, Andre Aboulian, Dr. Peter Lindahl, and Dr. Steven Leeb
- Moball-buoy Surveillance Network: a monitoring and communication network of wind-opportunistic spherical robot-buoys for the Arctic  
  Faranak Davoodi and Cedric Cocaud
- System Readiness Assessment: A Framework for Linking User Requirements to Technology & Integration Readiness  
  James C. Dowd, Dr. James S. Wasek, and Dr. Anna Y. Franz
- The Case for a Universal Adjustable Shock Mount  
  John Stenard

**Technical Papers: Structures** *(Washington A)*

**Moderator:** Dr. Christine Ikeda

- Comparison of Trimaran Structural Design Procedures for the Rapid Strategic Lift Ship (RSLS)  
  Dr. John C. Daidola, P.E. and Andrew Arnold
- Fluid-Structure Interaction in Naval Engineering  
  Dr. Robert A. Sielski
- Supporting Future Navy Surface Acquisition Programs via Enhance Structural Design Approaches  
  Lauren Claus, Dr. Dylan Temple, and Dr. Matthew Collette
- Reducing Total Ownership Cost: Designing Robust Ship Structures  
  Robert G. Keane, Jr., Tobin McNatt, and Dr. Jeffrey E. Beach

1330 - 1430  
**NEJ Meeting** *(Tidewater 2)*

1500 - 1700  
**Young Professionals Kick Off: Career Mentorship Panel and Beer Tasting** *(Potomac 2-4)*

**Moderator:** Ms. Jane Louie; Dept. Manager Naval Architecture Engineering Group, Gibbs & Cox, Inc.

- CAPT Richard Hepburn, USN (Ret.); President and CEO, Hepburn and Sons, LLC
- CAPT Rick White, USN (Ret.); President, RWC, LLC
- Ms. Kelly Cooper; Program Manager, Office of Naval Research
- Mr. Michael D’Amato, Sr.; Consulting Manager, AMSEC LLC
- Mr. Bob Keane; President, Ship Design USA, INC.

*Sponsored by ASNE Flagship Section*
<table>
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| 0715 - 0800 | Continental Breakfast *(Regency A-D)*  
Sponsored by Huntington Ingalls Industries |
| 0800 - 0815 | Opening Session *(Regency A-D)*                                                          |
| 0815 - 0900 | NAVSEA Keynote *(Regency A-D)*  
- VADM Thomas Moore, USN; Commander, Naval Sea Systems Command |
| 0900 - 1030 | SYSCOM Agency Panel *(Regency A-D)*  
**Moderator:** VADM Paul Sullivan, USN (Ret); Executive Director, Penn State Applied Research Laboratory  
- VADM Terry Benedict, USN; Director, Strategic Systems Programs  
- VADM Thomas Moore, USN; Commander, Naval Sea Systems Command  
- VADM James Syring, USN; Director, Missile Defense Agency  
- RADM Bruce Baffer, USCG; Assistant Commandant for Engineering & Logistics  
*At the conclusion of this session, the 2016 Rosenblatt “Young Naval Engineer” Award will be presented to LCDR Lauren Dufrene, USCG by RADM Bruce Baffer, USCG |
| 1030 - 1100 | Coffee Break *(Exhibit Hall)*  
Sponsored by L3 Technologies |
| 1100 - 1230 | Flexible Ships: Enabling Efficient and Effective Capability Upgrades *(Potomac 5-6)*  
**Moderator:** CAPT Michael Good, USN (Ret.); Principal, NAVPRO Consulting LLC  
**Assistant Moderator:** Timothy Schuler; Deputy S&T Director, PEO Ships/NAVSEA Surface Warfare Directorate  
- Mr. Robert Daigle; Professional Staff, House Committee on Armed Services  
- Mr. Bryan McGrath; Managing Director, The FerryBridge Group  
- Dr. Eric Rebentisch; Research Associate, MIT Sociotechnical Systems Research Center  
- Dr. Arun Seraphin; Professional Staff Member, Senate Armed Services Committee  
**Carriers - Enduring, Capable, Relevant. *(Regency A-D)***  
**Moderator:** RADM Brian Antonio, USN; Program Executive Officer, Aircraft Carriers  
- CAPT Mark Colombo, USN; Branch Head, Aircraft Carrier Requirements, Air Warfare Directorate, Office of the Chief of Naval Operations (OPNAV 98)  
- CAPT Timothy Keuhhas, USN; Commanding Officer, USS George Washington CVN 73  
- CAPT John Markowicz, USN; Program Manager, In-Service Carriers (PMS 312)  
- CAPT Doug Oglesby, USN; Program Manager, CVN 79/80 (PMS 379)  
- Ms. Ye-Ling Wang; Deputy Program Manager, Future Aircraft Carriers at Naval Sea Systems Command (PMS 378)  
**PEO Submarines Panel *(Washington B)***  
**Moderator:** Mr. George Drakeley, SES; Executive Director, PEO Submarines  
- CAPT Rich Arnold, USN; Program Manager, Submarine Acoustic Systems  
- CAPT Michael Coughlin, USN; Program Manager, Undersea Defensive Systems  
- CAPT Michael Stevens, USN; Program Manager, Virginia Class  
- Mr. Tom Plante; Director of Strategic Planning, Electric Boat |
| 1230 - 1330 | Floor Speaker *(Presenter Center in Exhibit Hall)*  
- RDML Lorin Selby, USN; Chief Engineer and Deputy Commander for Ship Design, Integration and Naval Engineering, Naval Sea Systems Command  
**Presenter Center Sponsored by American Systems**  
**Lunch *(Exhibit Hall)***  
Sponsored by Lockheed Martin  
Note: lunch is not included for exhibit hall only registration. Lunch tickets may be purchased separately |
1230 - 1700  Marine Machinery Association Meeting *(Potomac 2-4)*
Separate Registration Required - Refer to page 10 for MMA agenda

1330 - 1500  PEO Ships Panel: Future Surface Ship Acquisition *(Regency A-D)*
**Moderator:** RDML William Galinis, USN; Program Executive Officer, Ships
- CAPT Chris Sweeney, USN; Program Executive Officer, Ships
- CAPT Casey Moton, USN; DDG 51 Shipbuilding Program Manager (PMS 400D), PEO Ships
- Mr. Steve Wynn; Future Ship and Force Architecture Director, NAVSEA 05
- CAPT Todd Boehm, USN; Aegis Combat Systems Program Manager, PEO IWS 1.0
- CAPT Jonathan Rucker, USN; Unmanned Maritime Systems Program Manager (PMS 406), PEO LCS

1330 - 1500  TRIDENT II Life Extension/Modernization *(Potomac 6)*
**Moderator:** Mr. John Schaefer, SES; Chief Engineer, Strategic Systems Program
- CAPT John Gerken, USN; Launcher Program Manager
- CAPT Patty Gill, USN; Navigation Program Manager
- CAPT Doug Williams, USN; Missile Program Manager
- CDR Pat Croley, USN; Branch Head, Fire Control and Guidance
- Mr. Bob Bacon; MBSE Lead

1500 - 1700  Global Shipbuilding Executive Summit: A Strategic Approach to Adaptable Platforms and Payloads *(Regency A-D)*
**Moderator:** Mr. Tim Nichols; Managing Director Global Marketing, Siemens PLM Software
**Assistant Moderator:** CAPT Michael Good, USN (Ret.); Principal, NAVPRO Consulting LLC
- RADM Bruce Baffer, USCG; Assistant Commandant for Engineering & Logistics
- Commodore Gerry Christian, AM, RAN (Ret.); Head of Strategy, ThyssenKrupp Marine Systems Australia
- RDML William Galinis, USN; Program Executive Officer, Ships
- RDML Lorin Selby, USN; Chief Engineer and Deputy Commander for Ship Design, Integration and Naval Engineering, Naval Sea Systems Command
- Mr. William Bray, SES; Executive Director, Program Executive Office Integrated Warfare Systems

*Supported by Siemens PLM Software*

1530 - 1700  The Enduring Legacy of Rear Admiral David W. Taylor, USN at NSWC, Carderock Division *(Potomac 6)*
**Moderator:** CAPT Mark Vandroff, USN; Commanding Officer, Naval Surface Warfare Center Carderock Division
- Dr. Joseph T. (Tim) Arcano, Jr., SES; Technical Director, Naval Surface Warfare Center
- Mr. Kenneth Davis; Site Director/Head Combatant Craft Division, Naval Surface Warfare Center Carderock Division
- Dr. Alex Gray; Implementation Team Lead for the Future Ship and Submarine Tools Branch, Naval Surface Warfare Center Carderock Division
- Mr. Jeffrey Hough; Distinguished Engineer for Ship Design, Director US Navy Center for Innovation in Ship Design, Naval Surface Warfare Center Carderock Division

*At the conclusion of this session, the 2016 Solberg Award (Research) will be presented to Dr. Bilal Ayyub by CAPT Mark Vandroff, USN and RADM Millard Firebaugh, USN (Ret.)*

1700 - 1830  Student Poster Competition Judging *(Exhibit Hall)*
Winners will be announced during the Thursday opening session
*Supported by General Dynamics Mission Systems*

1700 - 1800  Rosenblatt Lecture Series - Our Engineering Heritage *(Presenter Center in Exhibit Hall)*
“Thresher, the submarine, the men. Unraveling the story” by CAPT Joseph Yurso, USN (Ret.)

*At the conclusion of this session, the 2016 Harold E. Saunders Award (Lifetime Achievement) will be presented to RADM Millard Firebaugh, USN (Ret.) by RADM Anthony W. Lengerich, USN (Ret.)*

**Exhibit Hall Reception**
*Supported by Northrop Grumman*
THURSDAY, FEBRUARY 16, 2017

0715 - 0800 Continental Breakfast (Regency A-D)
   Sponsored by Ohio Semitronics, Inc.

0800 - 0815 Opening Session (Regency A-D)
   Student Poster winners announced

0815 - 0900 Keynote (Regency A-D)
   - VADM Sandra Stosz, USCG; Deputy Commandant for Mission Support

0900 - 1030 Observations/Lessons Learned on Introduction of Advanced Technologies in DDG 1000 (Washington B)
   Moderator: CAPT Mick Outten, USN (Ret); Technical Director, DDG 1000 Program, Raytheon
   - CAPT Kevin Smith, USN; Program Manager, DDG1000
   - CAPT Christopher Sweeney, USN; Future Ships Sponsor, OPNAV
   - CDR Seth Miller, USN; Combat System Program Manager, PEO IWS 9.0

Ship Design and Analysis Tools (Potomac 6)
   Moderator: Mrs. Robin White, SES; Director for Surface Ship Design and Systems Engineering, NAVSEA
   Assistant Moderator: Mr. Lance Flitter; Technology Management Team Leader, Team Ships S&T Directorate
   - Ms. Kelly Cooper; Program Manager, Office of Naval Research
   - Mr. Blaise Corbett; Analysis and Design Branch Chief Engineer, NSWC Dahlgren
   - Mr. Jeffrey Hough; Distinguished Engineer for Ship Design, Director US Navy Center for Innovation in Ship Design, Naval Surface Warfare Center Carderock Division
   - Mr. Steve Markle; Program Manager, Electric Ships Office
   - Dr. Richard Vogelsong; CREATE Ships Project Manager, DOD High Performance Computing Modernization Program

MDA and Navy Technology Synergies for the Next Generation of Weapons, Systems and Ships (Regency A-D)
   Moderator: RDML Jon Hill, USN; Deputy Director, Missile Defense Agency
   - RADM David Hahn, USN; Chief of Naval Research
   - RDML Tom Druggan, USN; Commander, Naval Surface Warfare Center
   - RDML Doug Small, USN; Program Executive Officer, Integrated Warfare Systems
   - RDML Johnny Wolfe, USN; Program Executive, Aegis Ballistic Missile Defense

Contracting: Challenges and Opportunities (Washington A)
   Moderator: Ms. Cindy Shaver; Director of Contracts, Naval Sea Systems Command
   - CAPT Eric Oxendine, USN; Associate Director of Contracts, Naval Sea Systems Command
   - Mr. Michael R. Gutermuth, SES; Director Shipbuilding Contracts Division, Naval Sea Systems Command
   - Mr. James G. Lofgren, SES; Director Surface Systems Contracts Division, Naval Sea Systems Command
   - Ms. Susan Tomaiko, SES; Director Undersea Systems Contracts Division, Naval Sea Systems Command

Young Professionals Leadership Seminar & Breakfast (Conference Theater)
   Speaker: Dr. Marta Wilson; Chief Executive Officer, Transformation Systems, Inc.
   Students invited to attend, there will be a student election to follow immediately after.
   Sponsored by ASNE Flagship Section

0900 - 1230 Marine Machinery Association Meeting (Potomac 2-4)
   Separate Registration Required - Refer to page 10 for MMA agenda

1030 - 1100 Coffee Break (Exhibit Hall)
   Sponsored by Curtiss-Wright

Student Election (Conference Theater)

1100 - 1230 Arctic Day Encore (Regency A-D)
   - RDML Michael Haycock, USCG; Director of Acquisition Programs & Program Executive Officer (PEO)
Flexible Ships: Enabling Unmanned Systems Integration (Potomac 6)
Moderator: Mr. Glen Sturtevant; Director for Science & Technology, PEO Ships
Assistant Moderator: Ms. Ann Lowe; Senior Associate, Herren Associates
- Mr. Joe Horvath; Deputy for Warfare Integration and Unmanned Systems, OPNAV 9I
- LCDR Tim Tuschinski; Fire Scout Military Ship Integration Lead (PMA 266), PEO U&W
- Mr. Howard Berkof; Deputy Program Manager, Unmanned Systems (PMS 406), PEO LCS
- CDR Jason Fox; Military Deputy. NAVSEA Technology Office (NAVSEA 05T)
- Ms. Ryan Fitzgerald; Director of Technology, DASN Unmanned Systems

IPES: Power and Energy as the Foundation of the Kill Chain (Washington A)
Moderator: Mr. Steve Markle; Program Manager, Electric Ships Office
Assistant Moderator: CAPT John Preisel, USN (Ret.); Alion Science and Technology
- Dr. John Amy; Senior Technologist for Naval Power Architectures Technologies, NSWC
- Dr. Scott Coombe; Program Officer, Office of Naval Research 331
- Dr. Norbert Doerry; Technical Director, NAVSEA Technology Office, SEA 05T
- Mr. Nilo Maniquis; Ships Systems Engineer, PEO IWS/IWS 1.0
Sponsored by NOVA Power Solutions, Inc.

1230 - 1330 Floor Speaker (Presenter Center in Exhibit Hall)
- Ms. Allison Stiller; Principal Civilian Deputy, performing the duties of Assistant Secretary of the Navy (Research, Development and Acquisition)
Presenter Center Sponsored by American Systems
*At the conclusion of this session, the 2016 Gold Medal Award (Engineering) will be presented to RDML James P. Downey, USN by Ms. Allison Stiller
*At the conclusion of this session, the 2016 Claud A. Jones Award (Fleet Engineering) will be presented to LCDR Dennis L. Richardson, USN by CAPT Eric J. Anderson, USN
Lunch (Exhibit Hall)
Sponsored by General Atomics Electromagnetics
Note: lunch is not included for exhibit hall only registration. Lunch tickets may be purchased separately.

1330 - 1500 Point-Counter Point: How Do You Cost Effectively Build a 350 Ship Navy? (Regency A-D)
Moderator: RDML Joseph Carnevale, USN (Ret.)
Industry:
- VADM David Architzel, USN (Ret.); President FBW, Fairlead Integrated
- Mr. Dave Belanger; Vice President of Engineering, Ingalls Shipbuilding
- Mr. Rob Hogan; Vice President, Manufacturing and Supply Chain Management, Newport News Shipbuilding
- Ms. Christine Montalvo; President, L-3 Communications, SPD Division
Government:
- RADM John Neagley, USN; Program Executive Officer, Littoral Combat Ships
- RDML William Galinis; Program Executive Officer, Ships
- RDML Michael Haycock, USCG; Director of Acquisition Programs and Program Executive Officer (PEO)
- RDML Lorin Selby, USN; Chief Engineer and Deputy Commander for Ship Design, Integration and Naval Engineering

Sponsored by General Dynamics Mission Systems
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