Fleet Maintenance & Modernization Symposium

(FMMS 2013)

San Diego, California, USA
27-28 August 2013

ISBN: 978-1-5108-0379-4
Keynote Address
VADM David H. Buss, USN; Commander, Naval Air Force, U.S. Pacific Fleet

Technical Track A

Track 1A - Lifecycle Management and Total Ownership Cost
Moderator: Mr. Mike D'Amato, AMSEC, A Subsidiary of Huntington Ingalls Industries
Better Enabling the on Schedule and on Budget Performance of Major Equipment Replacements, Modernizations and Nuclear Refuelings
Robert G. Brown (Dassault Systemes Delmia Corp.)
Improved Fleet Readiness with Innovative and Cost Effective Technology
Kathy Carawan, Arthur Billingsley (Oracle)

Track 2A - New Technology
Moderator: Mr. David Saavedra, ASNE San Diego Section Secretary
Underwater Dry Chamber Aluminum Welding in Support of U.S. Navy Ship Repair Operations (Hyperbaric Aluminum Welding)
Kenneth Elliott, Justin Pollack (Phoenix International Holdings)
A 13 Year Assessment of the Condition of Seawater Ballast Tanks of the USS ESSEX (LHD 2) preserved with High Solids Coatings
Mark Ingle & Robert Steele (NAVSEA), Paul Slebodnick, James R. Martin, John Wegand & Edward J. Lemieux (NRL), Bruce N. Nelson (Battenkill Technologies, Inc.), Gordon Kuljian (GK Consulting, LLC) John L. Cuzzocrea (EXCET, Inc.), David Zuskin (SAIC)

Track 3A - Modernization and Maintenance
Moderator: Dr. Robert Sielski, Naval Architect - Structures
Stator Winding Partial Discharge Activity for Marine Air-Cooled Generators
Vicki Warren (Qualitrol)
Electronic Underwater Thickness Inspections on Navy Ships: Using Technology to Achieve Precise, Measurable, and Repeatable Results
Peter LeHardy (Phoenix International Holdings), Joey Walters (Seaward Marine Services Inc.)

Keynote Speaker
It's All About the Ships
RDMB Bryant Fuller, USN; Chief Engineer and Deputy Commander for Naval Systems Engineering, NAVSEA
Technical Track B

Track 1B - Lifecycle Management and Total Ownership Cost
Moderator: Mr. Kirk Burgamy, Q.E.D. Systems, Inc.

UHMWPE – A Maintenance Free Material for Extending Life Cycle of Shipboard Well Deck Systems
Gary Koza (Life Cycle Engineering, Inc), Bryan Olin (Polymer Industries)

Topside Corrosion Control (TCC) System Initiative: A Singled Up, Comprehensive Approach to Topside Corrosion Control
Steve Melsom, Linda Stiles (SEA 21), Edward Lemiuex, John Wegand (NRL), Ed Godfrey (SEA 21), Patrick Lahr (Corrosion Control Knowledge Sharing Network)

Track 2B - New Technology
Moderator: LT Eric Brege, USN, P.E., SWRMC

Adaptation of Industrial Robotics to Fleet Maintenance
Joseph Wagner (Battelle)

Initiatives in Bonded Ship Structural Repairs
John M. Noland, Daniel C. Hart, Douglas C. Loup, Edward P. Udinski (NSWC Carderock), Robert A. Sielski (Naval Architect–Structures)

Track 3B - Modernization and Maintenance
Moderator: Mr. Jason Thomas

Auxiliary Electric Drive (AED) for the United States Coast Guard WMSL-750 Class Ship
Ahmed Majumder (USCG CG-932), Michael A. Mensch, Michael J. DiTaranto, Nicholas R. Dewey (NSWC SSES), CAPT John G. Walker, USN (Ret.) (Thor Solutions LLC)

Product Line Management: The Right Tool for Today’s Fleet
RADM Ron Rábago, USCG (CG-4), CDR Paul Stukus, USCG (CG-452)

Track 4B - Modernization and Maintenance
Moderator: Mr. Rich Caccese, SEA-21

The Material Condition Kill Chain
RADM Robert O. Wray, Jr., USN; President, INSURV

Ashley Ferguson, Alan Karpovitch (NSWC Carderock Div Det Phila)
Panel Discussion: Improving Affordability in New Ship Design and Construction
Moderator: RADM Jeffrey Brooks, USN (Ret.), General Dynamics NASSCO-Earl Industries

RADM Robert Wray, USN; President, INSURV

RADM Joseph Horn, USN; PEO IWS
RDML David Lewis, USN; PEO Ships
PRESENTATION
Mr. Fred Harris, President, General Dynamics NASSCO

Wednesday, August 28

Panel Discussion: Readiness Tradeoffs - Effective and Affordable Decisions to Shape the Force
Moderator: RADM Joseph Campbell, USN (Ret.), American Systems

RADM Ronald Rábago, USCG; Assistant Commandant for Engineering and Logistics

RADM Richard Berkey, USN; Fleet Maintenance Officer, Fleet Forces Command
RDML Mark Whitney, USN; SEA 04
RDML David Gale, USN; Commander, Navy Regional Maintenance Command

RDML Bryant Fuller, USN; Chief Engineer and Deputy Commander for Naval Systems Engineering, NAVSEA

Technical Track C

Track 1C - Lifecycle Management and Total Ownership Cost
Moderator: LT Amanda Towey, SWRMC Code 300

Supporting the U.S. Navy Fleet in Any Sea: From Design to In-Life Sustainment to Modernization
Umberto Vianello, Philip Bozzelli, Francesco Perra, Lorenzo Rainiere (Fincantieri Marine Group)

Track 2C - New Technology
Moderator: LT Michael J. Beautyman, Jr., SWRMC Code 330

Life Extension of a 100,000 Deadweight Floating Storage Unit for the Australian Continental Shelf
Iain Braidwood (Teekay Corporation)

Copper Based Antifouling – A Regulatory Update and Recent Scientific Environmental Studies
Neal Blossom (American Chemet Corporation)

Track 3C - Modernization and Maintenance
Moderator: LCDR Marianne Holtphoenix, USN; CNSP

Readiness Engineering Data Integration (REDI) System
Michael Dipilla, Christopher Philip (NSWC SSES)

Underwater Replacement of #1 Shaft Stern Tube Bearing on USS George H. W. Bush (CVN 77)
Thomas Payne, Peter LeHardy (Phoenix International Holdings)

Track 4C - Modernization and Maintenance
Moderator: Mr. Glenn Hofert, P.E., Q.E.D. Systems, Inc.

LEDs: Lowering Maintenance Costs and Energy Consumption
Roger Buelow, Greg Flies, Keith Kazenski (Energy Focus, Inc.)

Keynote Speaker
VADM Thomas H. Copeman, USN; Commander, Naval Surface Forces/ Commander, Naval Surface Force, U.S. Pacific Fleet

Point-Counterpoint Panel
Moderator: RDML Joe Carnevale, USN (Ret.)

Navy Panelists:

RADM Richard D. Berkey, USN; Fleet Maintenance Officer, U.S. Fleet Forces Command
RDML David J. Gale, USN; Commander, Navy Regional Maintenance Command
CAPT Michael Malone, USN; Commanding Officer, Surface Maintenance Engineering Planning Program

Industry Panelists:

Mr. David J. Carver, Vice President of Repair, General Dynamics NASSCO
Mr. Thomas W. Epley, President and CEO, Marine Hydraulics International Inc.
Mr. Robert A. Kilpatrick, President and General Manager, BAE Systems