

16th Annual
**EXPEDITIONARY
WARFARE CONFERENCE**



“Integrating Future and Present Capabilities”



OCTOBER 24 - 27, 2011

WWW.NDIA.ORG/MEETINGS/2700

WYNDHAM BAY POINT HOTEL, PANAMA CITY, FL

EVENT #2700

LOCATION

Wyndham Bay Point Hotel
4114 Jan Cooley Drive
Panama City Beach, FL 32408
(800) 874-7105

CONFERENCE ATTIRE

Appropriate dress for the conference is business casual for civilians and Class B uniform or uniform of the day for military personnel.

PIG ROAST

Appropriate attire for the Pig Roast held at the NSWC PCD Base is casual dress. Please note that the event is held in an open air facility and the temperature can be cold. To attend the Pig Roast, you must have your conference badge that you would have received at registration. Please bring a valid picture ID and your conference badge to board the bus bound for NSWC PCD.

ID BADGES

During conference registration and check-in, each Attendee will be issued an identification badge. Please be prepared to present a valid picture ID. Badges must be worn at all conference functions.

PROCEEDINGS

Conference proceedings will be available online approximately two weeks after the event. You will receive an e-mail notification once the proceedings are available for viewing.

MONDAY, OCTOBER 24, 2011

8:00AM - 1:00PM

Golf Tournament

Nicklaus Golf Course & Club House

12:00PM - 7:00PM

Conference Registration

St. Andrews Foyer

2:30PM - 5:30PM

Mine Warfare Session – “MIW - All Ahead Full”

St. Andrews Ballroom

Naval mine warfare capability has been like the fashionable length of skirts – sometimes it is up and sometimes it is down. Our current mine countermeasures capability has received considerable attention over the past decade with a number of highly capable systems being fielded. The U.S. Navy mining capability, however, has been allowed to remain in the shadows with the result that the offensive mining capability has fallen to the level that our potential enemies now do not view U.S. Navy offensive mining as a deterrent, yet they maintain or enhance their own offensive mining capability. The recent mining incident in Libyan waters serves as a reminder of the effectiveness of very simple mines. The U.S. Navy is moving toward a more integrated capability through the use of the LCS mission modules with the subsequent cost savings related to reduction in the dedicated MCM vessel capability. It is our goal in this Session to explore future MIW, both Mining and Mine Countermeasures, with Speakers representing the fleet operators, the resource sponsor, the acquisition branch, and the technical groups. Specific areas addressed will include funding for support of a renewed offensive mining capability and the impact of the new PEO, LCS on MIW capability to move Mine Warfare “All Ahead Full.”

Session Chair: RADM Chuck Horne, USN (Ret)

Overview of Mine Warfare for the Future

▶ MajGen Timothy Hanifen, USMC, OPNAV N85, Director, Expeditionary Warfare Division

Funding Goals for Future MIW Capability

▶ LCDR Brian Amador, Surface Mine Counter Measures Requirement Officer, OPNAV N852

Future of MIW from the LCS Platform

▶ RDML James Murdoch, USN, PEO LCS

Offensive Mining Capability as a Game Changer

▶ Mr. Randy Hill, N8/9, Naval Mine and ASW Command

Shallow Water MIW

▶ RDML Jonathan White, USN, Commander, Naval Meteorology and Oceanography Command

Developing MIW Mission Package Capabilities Soonest for the Fleet

▶ Mr. David B. Tubridy, Department Head, Littoral and Mine Warfare Systems, NSWC PCD

Offensive Mining

- ▶ CAPT Scott Burleson, USNR, NSWC PCD

6:00PM - 7:00PM

Reception (Hosted Beer & Wine Bar; Liquor for Purchase)
St. Andrews & Grand Lagoon Foyers

7:00PM - 9:00PM

Dinner with Guest Speaker
Grand Lagoon Ballroom
▶ Gen James Jones, USMC (Ret), Former Commandant of the Marine Corps and National Security Advisor; President, Jones Group Consulting

TUESDAY, OCTOBER 25, 2011

6:45AM - 4:30PM

Conference Registration
St. Andrews Foyer

6:45AM - 7:30AM

Continental Breakfast
St. Andrews & Grand Lagoon Foyers

7:30AM - 8:00AM

Welcome & Introductory Remarks
St. Andrews Ballroom
▶ CAPT Duane Covert, USN (Ret), Expeditionary Warfare Division Conference Chairman; Site Manager, Northrop Grumman Corporation Information Systems
▶ VADM James Amerault, USN (Ret), Expeditionary Warfare Division Chairman; President and CEO, Oto Melara North America, Inc.
▶ Col Tom Owens, USAF (Ret), VP Membership, NDIA
▶ CAPT Scott Pratt, USN, CO NSWC PCD

8:00AM - 9:00AM

Keynote Speaker
St. Andrews Ballroom
▶ Mr. Brian Detter, Deputy Assistant Secretary of the Navy for Expeditionary Programs and Logistics Management, DASN, Expeditionary Programs and Logistics Management

9:00AM - 9:30AM

Networking Break
St. Andrews & Grand Lagoon Foyers

9:30AM - 11:30AM

EXWAR Strategic Outlook Session
St. Andrews Ballroom

Every aspect of the global environment has an impact on defense planning. Changes in one factor prompt decisions that cause inevitable adjustments in the overall defense posture. The Strategic Overview Session is designed to examine the impact of four of the most significant issues that shape the *art of the possible* in the development of present and future expeditionary warfare capabilities: defense budget, operational environment, requirements for irregular warfare and counter-terrorism, and energy management. Each of the panelists has responsibilities in assessing and responding to one or more of these issues within the decision-making process that shapes expeditionary warfare forces.

CONFERENCE CONTACTS

VADM James Amerault, USN (Ret)
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Mrs. Christy J. Mason, CMP
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Session Chair: Dr. Sam Tangredi, Director, San Diego Operations, Strategic Insight, Ltd.

- ▶ RDML (Sel) Dietrich H Kuhlmann, III, USN, Director, Operations Division, ASN(FM&C), FMB1/N821
- ▶ RDML Gerry Hueber, USN, Commander, Expeditionary Strike Group Three
- ▶ CAPT Mark Mullins, USN, Deputy Director, Irregular Warfare Office, OPNAV N3/5
- ▶ Col Bob "Brutus" Charette, Jr., USMC, Director, Marine Corps Expeditionary Energy Office

11:30AM - 12:45PM **Networking Lunch**
Grand Lagoon Ballroom

12:45PM - 1:30PM **Guest Speaker**
St. Andrews Ballroom
▶ VADM Richard W. Hunt, USN, Commander, Naval Surface Forces, U.S. Pacific Fleet

1:30PM - 4:30PM **EXWAR Current Operations Session**
St. Andrews Ballroom

As it has been in all wars, equipment, training, concepts and plans change as the war progresses. Some of the prior or current concepts, plans and equipment work and some do not. The Session will discuss current and recently past operations with a focus on how USMC and Navy forces are currently operating and training. The intent is to discuss, examine and raise questions on what concepts of operations work, what specific systems or equipment effectively support current and future concepts, what capabilities are effective, which capabilities or systems are not effective, and what capabilities or capability improvements the operating units need that they do not have today. Current operational leaders will speak on these issues from either their recent experience in preparing units to deploy, in operations, or in capability development.

Session Chair: Mr. Dewey Mauldin, Vice President, The Boeing Company

BOLD Alligator
▶ BGen Christopher Owens, USMC, Deputy Commanding General, II MEF
▶ Col Brad Weisz, USMC, Deputy Commander, Expeditionary Strike Group TWO

Recent Afghanistan, Iraq, Pakistan, Libya deployment
▶ CAPT Pete Pagano, USN, COMPHIBRON FOUR
▶ Col Mark Desens, USMC, CO 26th MEU

2:30PM - 3:00PM **Networking Break**
St. Andrews & Grand Lagoon Foyers

3:00PM - 4:30PM **Session Continues**
St. Andrews Ballroom

4:30PM **Adjourn**

WEDNESDAY, OCTOBER 26, 2011

6:45AM - 4:45PM **Conference Registration**
St. Andrews Foyer

6:45AM - 7:45AM **Continental Breakfast**
St. Andrews & Grand Lagoon Foyers

7:45AM - 8:00AM **Administrative Remarks**
St. Andrews Ballroom

8:00AM - 8:45AM **Keynote Speaker**
St. Andrews Ballroom
▶ BGen Francis L. Kelley, Jr., USMC, Commanding General, Marine Corps Systems Command

8:45AM - 11:50AM

EXW System Acquisition Challenges Session

St. Andrews Ballroom

“Being ready is not what matters. What matters is winning after you get there.”

LtGen Victor H. Krulak, USMC, April 1965

The presentations and discussions will discuss some of the most important acquisition programs that enable both current and future expeditionary warfare and the various challenges faced. Getting it right is even more difficult with the challenges of budget constraints imposed, and pending due to our nation's need for deficit reduction. With global threats from state and non-state factions increasing and changing, providing the technological advantages that continue to make war with the United States an unfair fight, the programs presented today are pivotal.

Session Chair: Mr. Jeff Steelman, Vice President, The Steelman Group, Inc.

Moderator: Mr. Terry O'Brien, CAPT, USN (Ret), Corporate Director for Customer Relations, Ingalls Shipbuilding, Huntington Ingalls Industries

- ▶ RDML David Lewis, USN, PEO SHIPS
- ▶ Col Gary “Static” Kling, USMC, Deputy for Aviation Programs, HQ USMC
- ▶ RDML James Murdoch, USN, PEO LCS

9:50AM - 10:20AM

Networking Break

St. Andrews & Grand Lagoon Foyers

10:20AM - 11:50AM

Session Continues

St. Andrews Ballroom

12:00PM - 1:30PM

Lunch with Guest Speakers

Grand Lagoon Ballroom

- ▶ MajGen Timothy Hanifen, USMC, OPNAV N85, Director, Expeditionary Warfare Division, CMC Representative
- ▶ RADM Kurt W. Tidd, USN, Commander, U.S. Naval Forces Southern Command; Commander, U.S. 4th Fleet, CNO Representative

1:30PM - 4:45PM

ONR/Advance Technology Session

St. Andrews Ballroom

The Office of Naval Research (ONR) provides technology solutions for Navy and Marine Corps needs, especially in the area of Expeditionary Warfare. ONR manages the Navy's basic, applied, and advanced research to foster transition from science and technology to higher levels of research, development, test and evaluation. Working closely with ONR is the Marine Corps Warfighting Laboratory (MCWL), which creates technological and strategic advances in response to the needs of today's Marine in order to provide timely and exacting responses to their current needs and future threats. As well, the Naval Surface Warfare Center (NSWC) cohesively and seamlessly operates in concert with ONR concerning the development and transition of the technological advances into the platforms that our Navy operates in the expeditionary environment. The panel will discuss ongoing efforts to support the expeditionary warfighter through research of new technologies, and express the areas in which further research is desired by the expeditionary community.

Session Chair: Mr. Brian McGovern, Col, USMC (Ret), JLTW and MPF Project Officer, Professional Analysis, Inc.

1:30PM - 2:00PM

- ▶ Dr. Walter F. Jones, Executive Director, Office of Naval Research

2:00PM - 2:30PM

- ▶ BGen Mark Wise, USMC, Vice Chief of Naval Research and Commanding General, Marine Corps Warfighting Lab (MCWL)

2:30PM - 3:00PM

- ▶ RDML James Shannon, USN, Commander, Naval Surface Warfare Center

3:00PM - 3:15PM

Networking Break

St. Andrews & Grand Lagoon Foyers

3:15PM - 4:45PM

Session Continues

St. Andrews Ballroom

- ▶ Mr. George Solhan, SES, Deputy Chief of Naval Research, Expeditionary Maneuver Warfare & Combating Terrorism Department (Code 30); and Director, Marine Corps Science and Technology
- ▶ Tom Swean, Ph.D., Deputy Director, Ocean Battlespace Sensing Department (Code 32)
- ▶ CDR Matt Swiergosz, USN, Program Officer, Warfighter Performance Department (Code 34)

5:00PM - 7:00PM **NSWC PCD Open House & Networking Reception**
NSWC PCD (Transportation Provided)

7:00PM - 10:00PM **Pig Roast**
NSWC PCD

THURSDAY, OCTOBER 27, 2011

7:00AM - 12:10PM **Conference Registration**
St. Andrews Foyer

7:00AM - 7:45AM **Continental Breakfast**
St. Andrews & Grand Lagoon Foyers

7:45AM - 7:50AM **Administrative Remarks**
St. Andrews Ballroom
▶ Mr. Skip Gaskill, Director, Government Affairs, Textron, Inc

7:50AM - 8:35AM **Keynote Speaker**
St. Andrews Ballroom
▶ BGen Daniel J. O'Donohue, USMC, Director, Capabilities Development Directorate

8:35AM - 11:40AM **Balancing Resources in Support of Expeditionary Operations Session**
St. Andrews Ballroom

The 2012 Defense Budget recommendation is a continuation of the 2011 Defense Budget which focused on balancing ever shrinking resources amongst programs that support the full range of military operations. Difficult decisions have to be made to ensure the Navy/Marine Corps team can execute both conventional and irregular operations in the Joint Operating Environment. This Session will provide insight into the Navy and Marine Corps' resource allocations intended to meet the Secretary's intent within the scope of expeditionary operations. The Session Members are the resource sponsors (N85) and requirements developers (CD&I) who are making the funding recommendations and decisions for these programs of record.

Session Chair: Mr. Skip Gaskill, Director, Government Affairs, Textron, Inc.

Moderator: MajGen Thomas Benes, USMC (Ret), Vice President Expeditionary Warfare, Alion Science and Technology

- ▶ Col Chris Arantz, USMC, Director, OPNAV N85, Seabasing Branch/Amphibious Warfare Branch
- ▶ CAPT Evin Thompson, USN, N851, Special Warfare Branch
- ▶ CDR Robert Debuse, USN, N857
- ▶ LCDR Brian Amador, Surface Mine Counter Measures Requirement Officer, OPNAV N852
- ▶ CAPT Henry Stevens, USN, PMS385, PM Mobile landing Platform (MLP) and Joint High Speed Vessel (JHSV)

9:25AM - 9:55AM **Networking Break**
St. Andrews & Grand Lagoon Foyers

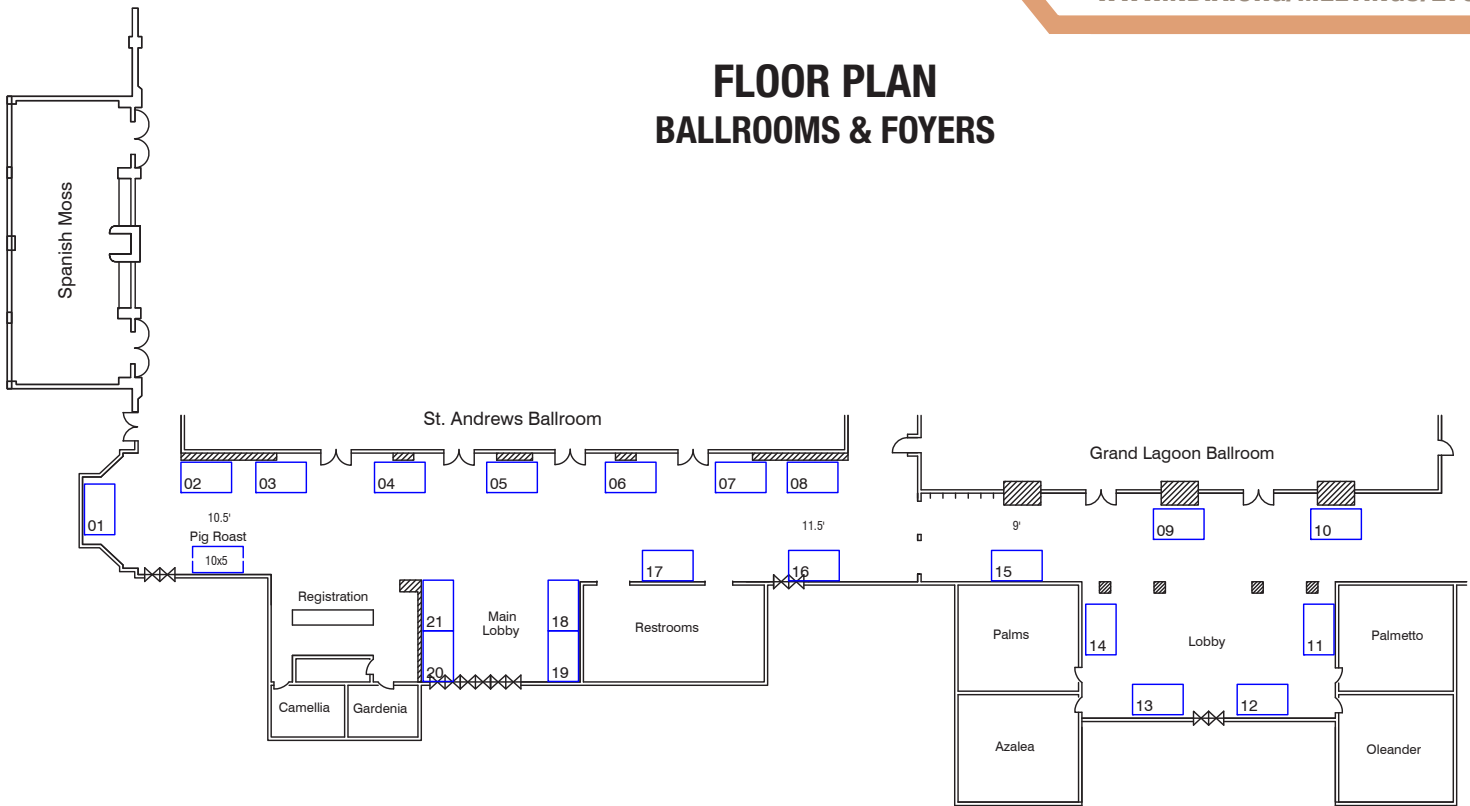
9:55AM - 11:40AM **Session Continues**
St. Andrews Ballroom

11:40AM - 11:55AM **Closing Comments**
St. Andrews Ballroom
▶ MajGen Timothy Hanifen, USMC, OPNAV N85, Director, Expeditionary Warfare Division

11:55AM - 12:05PM **Conference Closing Remarks/Adjournment**
▶ CAPT Duane Covert, USN (Ret), Expeditionary Warfare Division Conference Chairman; Site Manager, Northrop Grumman Corporation Information Systems

12:10PM **Boxed Lunch**
St. Andrews & Grand Lagoon Foyers

FLOOR PLAN BALLROOMS & FOYERS



Display #	Organization/Company	Display #	Organization/Company
1	NSWC PCD	12	Real Time Analyzers, Inc.
2	Northrop Grumman	13	GE Marine
3	EPS Corporation	14	Marport Canada, Inc.
4	Ingalls Shipbuilding	15	MCCDC
5	Weatherhaven Resources, Inc.	16	The Boeing Company
6	Oceaning International, Inc.	17	OPNAV N85
7	Hydroid, Inc.	18	General Dynamics Land Systems
8	DRS Defense Solutions	19	Arete Associates
9	Military Sealift Command	20	Rolls-Royce
11	Power Ten, Inc.	21	Maersk Line, Limited

DISPLAYER DESCRIPTIONS

AUSTAL

Austal's U.S. shipyard occupies 120 acres in Mobile, Alabama on the Mobile River, 20 miles from the Gulf of Mexico.

Austal performs modular construction in the Module Manufacturing Facility (MMF). The MMF houses an 8.5-acre, manufacturing facility with two production lines. The facility is supplemented by a 1.7-acre warehouse and parking for over 2,000 vehicles. The Final Assembly Yard consists of four large assembly bays for module fabrication/erection and component storage.

In 2004, the Navy awarded a contract for the Littoral Combat Ship (LCS) to Bath Iron Works. Austal was the LCS 127-meter trimaran seaframe designer and builder for the first two Independence-variant LCS class vessels.

USS Independence was built at Austal's shipyard and delivered in December 2009. A contract for Coronado was awarded by the Navy in May 2009 and in December 2010, the Navy awarded Austal a 10-ship, \$3.5B LCS contract.

In November 2008, Austal was awarded a Navy contract to design and construct the first 103-meter Joint High Speed Vessel (JHSV), with options for 9 additional. Construction on Spearhead began in December 2009. In September 2010, Austal started construction on Vigilant and is now under contract to build five of the remaining eight optioned vessels.

THE BOEING COMPANY

Nearly a century of expertise and continuing innovation make Boeing the leader in the aerospace and defense industry. Boeing combines global resources and a spirit of innovation to provide best-of-industry, network-enabled solutions to military, government and commercial customers around the world.

From battle-proven aircraft, unmanned vehicles, space systems and beyond, Boeing is the world's leading space and defense business and the world's largest and most versatile manufacturer of military aircraft. Boeing also is the world's largest satellite manufacturer, an emerging leader in support systems and services, and a leading global supplier of human space exploration systems and services.

DRS DEFENSE SOLUTIONS

DRS Defense Solutions, a wholly-owned subsidiary of DRS Technologies, is a best-in-class provider of advanced products, services and systems integration to military forces, intelligence agencies and prime contractors. The company is part of Finmeccanica Group (FNC.MI), which ranks among the top 10 global players in aerospace, defense and security, employing more than 75,000 people. To learn more, go to: www.drs-ds.com

EPS CORPORATION

EPS Corporation is built on a foundation of integrity and reliability and is dedicated to providing the best in professional services in support of the federal government, its military and civilian agencies worldwide including the austere environments of Bosnia, Kosovo, Iraq and Afghanistan. EPS is a Service Disabled Veteran Owned Small Business (SDVOSB).

EPS engineers and manufactures advanced composite EPS Hovercraft. The EPS M10 is a fully amphibious, air-cushioned vessel that operates effectively at sea, in shallow waters and over any land surface. The vessel has several variants: patrol, troop transport, logistics, emergency, humanitarian, hydrographic survey and ferry. The EPS M10 is constructed from non-corrosive, environmentally friendly advanced composites which provide a significant reduction in vessel operating, maintenance, and through-life costs. The EPS M10 is powered by two 1,000 horsepower diesel engines which provide it with lift and the operation of its propellers, giving speeds up to 50 knots and measures some 68 feet in length by 30 feet of beam. She has an all up weight in the region of 35 tons. The EPS M10 is produced under an ABS Hovercraft license agreement at EPS' Vectorworks Marina Shipyard in Titusville, Florida, USA.

GE MARINE

GE Marine manufactures aeroderivative gas turbine marine engines ranging from 4.2 to 42.5 MW output. More than 1300 of these engines power nearly 500 ships in 32 world navies and on commercial vessels. These engines have accumulated more than 13.5 million operating hours. In the U.S. Navy, GE Marine engines propel corvettes, frigates, destroyers, supply ships, sealift ships and the new LCS s.

GE Marine's new GE38 7500 shp class engine is a candidate for propelling the Navy and marine Corps' new Ship-to-Shore connectors. This engine, already selected for the Sikorsky CH-53H helicopter, is being developed for Sikorsky and the Navy. It can also be used in a turbine-generator set for more efficient on-board on DDGs and future Navy ships.

Known for their outstanding fuel economy, reliability, GE Marine Engines have been serving the Navy for nearly half a century.

GENERAL DYNAMICS LAND SYSTEMS

General Dynamics Land Systems' mission is to provide a full spectrum of land and amphibious combat systems, subsystems and components worldwide. Our strengths are world-class design and systems integration, superior production and innovative life cycle support. We will deploy these strengths to meet our customers' needs in a changing world.

HYDROID, INC.

Hydroid, Inc., A Kongsberg Company, makers of the REMUS family of AUVs, is the world leader in AUV manufacturing. Located on Cape Cod, Hydroid has delivered more AUV of all classes, shallow to deep, than any other AUV organization. The combat proven REMUS 100, also known as the MK 18 MOD I Swordfish, SAHRV, and SCULPIN, is the AUV of choice by EOD and MCM forces around the globe. For more endurance and deeper depths Hydroid offers the REMUS 600 with Synthetic Aperture Sonar, Side Scan Sonar, Multi-Beam, and Camera options. The U.S. Navy's EOD version of the REMUS 600 is designated MK 18 MOD II Kingfish. Need to find something near the bottom of the ocean? The REMUS 6000 is the answer. Recently used to locate the debris field from Air France Flight 447, the REMUS 6000 is the deepest commercially available AUV in the industry.

Hydroid is a proud member of the Kongsberg family. Together with our Kongsberg team, we offer the HUGIN AUV equipped with the high resolution HiSAS, Synthetic Aperture Sonar, Minesniper mine neutralization system, a full range of world class acoustic sensors, and synthetic training.

Innovative, Determined, Collaborative, Reliable

Call or email today: (508) 563-6565, epetrick@hydroid.com

INGALLS SHIPBUILDING

Ingalls Shipbuilding is a division of Huntington Ingalls Industries. Ingalls Shipbuilding has pioneered the development and production of technologically advanced, highly capable warships for the surface Navy fleet, U.S. Coast Guard, U.S. Marine Corps, and foreign and commercial customers.

Facts at a Glance:

- 18,000 employees at three sites across the Gulf Coast plus subsidiaries in San Diego, CA and Virginia Beach, VA
- Building four classes of ships simultaneously—eight ships now in production
- DDG 113 will be the 29th Arleigh Burke-class destroyer built by Ingalls Shipbuilding
- Builder of record for LPD and LHA classes of amphibious assault ships
- Builder of largest multi-mission National Security Cutter for the U.S. Coast Guard
- Only "Composite Center of Excellence" facility in U.S. shipbuilding – building major components for LPD and DDG 1000

For more information, please visit: www.huntingtoningalls.com/is

MAERSK LINE, LIMITED

Maersk Line, Limited (MLL) is an American company, headquartered in Norfolk, VA, that provides U.S. flag transportation, ship management and maritime technical services to government and commercial customers.

In 1983, MLL won its first government contract to convert and operate five Maritime Prepositioning Ships (MPS). We have more than 25 years of experience managing minor and complex conversions for numerous ships. Our innovative concepts are affordable and reliable for the U.S. military's unique seabasing requirements.

MCCDC

Headquarters Marine Corps, Combat Development and Integration, Seabasing Integration Division, develops and enables the integration of maritime expeditionary capability and concepts for the Marine Corps. Seabasing Integration Division has four branches. The Expeditionary Ships Capabilities Branch identifies afloat requirements based on warfighting function and emerging concepts. The MAGTF Planning Branch develops and maintains the baseline MAGTF structure and modeling tools used for the purposes of war games, studies and analysis. The Connectors and Doctrine Branch develops and maintains Marine Corps' equities in crafts, connectors and doctrine in support of amphibious and expeditionary operations. The Operations Branch coordinates the division battle rhythm by maintaining the common operating picture. Seabasing Integration Division is located at Quantico, VA.

MARPORT CANADA, INC.

Marport, the largest sonar company in Canada, is the leading developer of Software Defined Sonar – the industry's first frequency agile, multi-mode, dynamically reconfigurable sonar transceiver platform using FPGA technology. Software Defined Sonar increases sonar functionality, enhances signal processing and substantially reduces costs – all while replacing racks of legacy sonar equipment.

MILITARY SEALIFT COMMAND

Military Sealift Command, headquartered in Washington, DC, provides ocean transportation to the Department of Defense and pivotal support to U.S. expeditionary warfighters worldwide.

The Command operates more than 110 government-owned and commercially chartered noncombatant ships that perform a variety of missions. These include replenishing U.S. Navy ships at sea; conducting specialized seagoing missions, strategically prepositioning combat cargo at sea for the rapid delivery to troops ashore; and delivering military equipment and supplies to deployed U.S. forces.

MSC support to expeditionary warfare includes: modern high-speed vessels that support Theater Security Cooperation and Global Fleet Station missions around the globe; ships that are specially configured to support sea basing; an offshore petroleum distribution system ship that enables petroleum to be piped ashore from several miles offshore; and integration with the development of the Maritime Prepositioning Force (Future).

NSWC PCD

The mission of Naval Surface Warfare Center Panama City Division (NSWC PCD) is to conduct research, development, test and evaluation (RDT&E), and in-service engineering (ISE) support of mine warfare systems, mines, naval special warfare systems, diving and life support systems, amphibious/expeditionary maneuver warfare systems, other missions that occur primarily in coastal (littoral) regions and to execute other responsibilities as assigned by the Commander, Naval Surface Warfare Center. Located on St. Andrew Bay in Panama City, Florida, NSWC PCD is the Navy's principal organization responsible for RDT&E in its mission areas and other missions that take place in the coastal region. By virtue of its geographical location on the Gulf of Mexico and the Department of Defense's Joint Gulf Test Range and coupled with its recognized mission areas and technical expertise, the Division is a leading contributor in developing, fielding, and testing Joint expeditionary and coastal operations systems in the littoral environment.

NORTHROP GRUMMAN

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in aerospace, electronics, information systems, and technical services to government and commercial customers worldwide.

Northrop Grumman Aerospace Systems, Battle Management and Engagement Systems is a world leader of airborne mine countermeasures and mission package integration capabilities. Strike and Surveillance Systems Division provides world class aviation systems, both manned and unmanned.

The Airborne Laser Mine Detection System (ALMDS), and Airborne Counter-Explosive, Reconnaissance and Targeting System (ACERTS), can detect mines and other objects in the littorals, surf zone to beach exit zone, and on land.

Modular Mission Packages (MPs) bring transformational focused capability to Navy ships allowing increased flexibility by changing MPs to meet changing operational requirements and evolving threats. This concept is being implemented on the U.S. Navy Littoral Combat Ship (LCS). Northrop Grumman, as the Mission Package Integrator (MPI), provides the USN with high-performance, modular, seamlessly integrated MPs for the LCS. The result is a multi-role warship, facilitated through rearrangement of modular components sharing common design standards and network interfaces.

The MQ-8B Fire Scout, Vertical Take-off and Landing Tactical Unmanned Aerial Vehicle provides real-time/non-real-time Intelligence, Surveillance and Reconnaissance (ISR) to tactical users avoiding reliance on manned aircraft or space-based assets. Fire Scout has been selected by the U.S. Navy as the UAV Mission Package for the Littoral Combat Ship (LCS) and can operate from any air-capable ship or confined area land bases. Today, Fire Scout is operational on board the USS HALYBURTON (FFG-40) and is supporting the U.S. Army in Kunduz, Afghanistan.

OCEANEERING INTERNATIONAL, INC.

Oceaneering is a global oilfield provider of engineered services and products, primarily to the offshore oil and gas industry, with a focus on deepwater applications. Through the use of its applied technology expertise, Oceaneering also serves the defense and aerospace industries.

The Advanced Technologies (ADTECH) group of Oceaneering specializes in manned subsea and space systems, as well as practical, cost-effective robotic systems. ADTECH provides full life cycle submarine maintenance services to the U.S. Navy, space suit design and astronaut tooling for NASA, and a variety of other engineered products and solutions.

OPNAV N85

N85 serves the nation, the Chief of Naval Operations, the Navy and the Marine Corps in the development, funding, implementation and delivery of all amphibious and expeditionary warfare requirements and programs on time and on cost.

Intellectually, we are guided in all our force development efforts by “A Cooperative Strategy For 21st Century Seapower (CS21), the Naval Operational Concept 2010, and the family of Marine Operating Concepts.” Through its five major branches: Naval Special Warfare, Mine Warfare, Amphibious Warfare, Navy Expeditionary Combat Command, and Seabasing, the Division ensures that the Expeditionary Warfare forces of the United States Navy remain the most cost effective, best equipped, best trained and most combat ready and responsive in the world. “Best” and “most combat ready and responsive in the world” will be our ultimate measures of the quality delivered to the battle force and Navy.

Expeditionary warfare is the essence of naval operations from the sea anytime and anywhere in any manner. Today, the Navy is continually transforming its naval expeditionary forces – ships, aircraft, weapons, equipment, and systems – to operate across the full spectrum of roles, missions, and tasks of the 21st century. Expeditionary warfare forces, equipped with sound doctrine and appropriate capabilities, will continue to provide our nation with forward presence, deterrence, sea control, power projection, maritime security, and humanitarian assistance and disaster relief across the full range of military operations. The Naval Expeditionary Warfare Division is the foundation for the impetus behind peacetime forward deployments, rapid response to worldwide crises, and protection to United States citizens, allies, and interests wherever and whenever they might be at risk.

POWER TEN, INC.

Power Ten, Inc. is a Service-Disabled Veteran-Owned Small Business (SDVOSB) that provides professional, technical, engineering, and information technologies services to government and industry customers. Power Ten, Inc. was founded and is managed by former Marines with extensive operational and management experience who share common proven leadership and business principles – QUALITY PEOPLE, WHO DELIVER QUALITY PRODUCTS, AT A FAIR AND REASONABLE PRICE. Our people, our partners, and our customers share a bond of trust, confidence and a commitment to actionable products.

Our current services center around the the United States Marine Corps in the areas of Command, Control Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR), Marine Air Command & Control, Test & Evaluation, tactical and operational Unmanned Systems (UxS), Waste, Water & Energy, and the Marine Aviation Training System. We are an industry leader in these areas due to the performance, reputation and expertise of our people.

REAL-TIME ANALYZERS, INC.

Real-Time Analyzers, Inc. (RTA) designs and manufactures Portable Raman Analyzers specifically for operation in demanding environments, such as petrochemical refineries, field, port and tarmac operations. These analyzers are designed for military use and systems can withstand vibration, shock, and a wide operating temperature range. RTA also integrates turn-key software interfaces that allow simple Go/No Go answers for many application needs. Little or no training is required to operate the software.

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