



THE AMERICAN SOCIETY OF NAVAL ENGINEERS

Flagship Section

<http://www.navalengineers.org/sections/flagship>

Cordially invites you to a presentation on

40 Years of Ship Structure Advances: Opportunities Gained and Opportunities Lost

DR. JEFFREY E. BEACH

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About the Seminar:

The ship structure represents the embodiment of the ship and it is designed based on well-established principles. The application of those principles, however, requires specific knowledge of three domains: 1) Platform Architecture, 2) Material characteristics, and 3) Criteria relevant to each application. That knowledge must manifest in useful tools for the analyst and designer. Significant changes in ship structure design have occurred since the 1960s with many technological advances and many lessons have presented themselves. Some technologies have been applied and some lessons have resulted in learning opportunities, while others have gone unheeded. The challenge to the naval structural engineer in the 21st century is taking advantage of new advances in technology and capability while avoiding the mistakes of the past.

The presentation focuses on the evolution of these three domains as they pertain to naval surface ship structures from the 1960s through the present at a high level (without the use of equations). The utility and versatility of structural modeling from physical modeling in the 1960s to sophisticated numerical modeling today is also discussed.

Biography:

Dr. Jeffrey E. Beach is a Technical Consultant and an Adjunct Professor of Systems Engineering for the Naval Postgraduate School and The George Washington University. He has 43 years of experience in leadership roles in research and development, teaching, and implementation of naval engineering for the U.S. Navy. He had a 39 year career with the Naval Surface Warfare Center, Carderock Division, where he performed a number of roles including Head of the Structures and Composites Division (16 year); Survivability, Structures, and Materials Department Head; Deputy Technical Director and Chief Scientist; and Technical Operations Manager. Dr. Beach earned his B.S. and M.S. degrees in Aerospace Engineering from the University of Maryland and his doctorate in Engineering Management and Systems Engineering from The George Washington University. He also studied Naval Architecture at Catholic University under Captain S.R. Heller. He has participated in numerous national and international ship structures related committees including as the past chairman of the old SNAME HS-8, Aluminum. Dr. Beach is SPRDE Level III DAWIA certified and is the recipient of the 1984 ASNE Solberg Award for research in structural experimental techniques and analyses methods. In 1998, he also received the ASNE Gold Medal Award.

About the Event:

Please arrive at 0830 so that you may check in at the front desk and enjoy coffee and other light refreshments. Please note the new address below.

Thursday, January 26, 2012

The Columbia Group

20 M Street SE

Suite 700 (Floor 7)

Washington, DC 20003

AGENDA

0830 Light Refreshments 0900 – 1000 Presentation

Please make reservations by COB Tuesday, January 24, 2012.

RESERVATIONS TO: Allison Kennedy Phone: 202-608-8304

Online Form: www.columbiagroup.com/register.php