

Committee on Naval Engineering in the 21st Century

Workshop: Examining the Science and Technology Enterprise in Naval Engineering
National Academy of Sciences, 2100 C Street NW, Washington, DC
Members' Room

WEDNESDAY, JANUARY 13, 2010

8:30 am [Welcome and Introductions](#)

Chair: Martha Grabowski

8:45 am ***Session 1***

Plenary Session: Future Navy Needs for S&T Output

Moderator: Ed Comstock

Reporter: Al Tucker

[Overview – Technology Implications of the Navy’s Future](#)

Ronald O’Rourke, Specialist in Naval Affairs, Congressional Research Service

[NAVSEA Perspective](#)

Captain Heide Stefanyshyn-Piper, USN, Chief Technology Officer, NAVSEA

[Navy Ship Designer Perspective](#)

Robert G. Keane, President, Ship Design USA

[Naval Shipbuilding Perspective](#)

Larry Dreher, DDG1000 Technical Director, Bath Iron Works/General Dynamics

[Navy Needs for S&T Output from a Workforce Perspective](#)

Ronald K. Kiss, President Emeritus, Webb Institute

10:45 am Break

11:00 am Questions and discussion

11:45 am Lunch

12:45 pm ***Session 2***

Plenary Session: The Existing S&T Infrastructure in Naval Engineering

Moderator: Vince Wilczynski

12:45 pm **Panel 1**

The Education & Research Community Perspective

Moderator: Len Imas

Reporter: Solomon Yim

Michael M. Bernitsas, Professor, Dept. of Naval Architecture & Marine Engineering, U. Michigan

John Leonard, Professor, Center for Ocean Engineering, Dept. Mech. Eng., MIT

Ronald W. Yeung, Professor, Ocean & Naval Engineering, Univ. of California at Berkeley

Spyros A. Kinnas, Professor, Dept. of Civil, Arch. & Env. Engineering, U. Texas

Steven L. Ceccio, Director, Naval Engineering Education Consortium and Professor, Dept. of Mechanical Engineering, U. Michigan

Woei-Min Lin, Ship Technology Division, Science Applications International Corporation

William Milewski, Principal Scientist, Applied Physical Sciences

John Hackett, Chief Scientist and Director of Advanced Ship Design, Northrop Grumman Ship Systems

2:20 pm Questions and discussion

2:45 pm **Panel 2**

Perspectives of Navy Labs and Other Government Research Supporters

Moderator: Vince Wilczynski

Reporter: Alan Brown

Scott Littlefield, Director S&T, Naval Surface Warfare Center-Carderock

Pierre Corriveau, Chief Technology Officer, Naval Undersea Warfare Center

Bhakta B. Rath, Director of Research for Materials Science and Component Technology, Naval Research Laboratory

Myles Hurwitz, CREATE Ship, High Performance Computing Modernization Program, Department of Defense

Susan C. Kemnitzer, Deputy Director, Engineering Education and Centers Division, National Science Foundation

3:40 pm Questions and discussion

4:00 pm Break

4:15 pm **Panel 3**

The Commercial Shipbuilding /Offshore Industry /Professional Society Perspective

Moderator: Mike Toner

Reporter: Charles Calvano

Brian Carter, Manager, Commercial Business Development, General Dynamics NASSCO

Keith Michel, Chairman, Herbert Engineering Corp. Group

Peter Noble, Chief Naval Architect, ConocoPhillips

Owen H. Oakley, Research Consultant, Chevron

Kirsi Tikka, Vice President Global Technology and Business Development, ABS

Jean Otto de Kat, Head of Innovation, Maersk Maritime Technology, AP Moller-Maersk

5:30 pm Questions and discussion (Panel 3)

5:45 pm Questions and discussion (related to Panels 1, 2, and 3)

6:30 pm Recess

6:30 pm Reception

7:00 pm Dinner

THURSDAY, JANUARY 14

8:30 am **Session 3**

Breakout Sessions: Gaps and Concerns about Capabilities to meet Navy Needs in Specific Domains

Moderator: Cindy Williams

Introductory Comments: John Pazik, ONR

Education. Moderator/reporter: Charles Calvano

Research, Development, Test, and Evaluation. Moderator/reporter: Alan Brown

Design. Moderator/reporter: John Lee

Shipbuilding. Moderator/reporter: Ron Yeung

10:30 Break (breakout session moderators prepare summaries)

11:00 am **Session 4**

Plenary Session: Summary of Workshop Results

Breakout session findings

12:15 pm Public meeting adjourns

12:15 pm Lunch