



NEWS RELEASE

For Immediate Release: February 9, 2012
Release Number: 12-1

Contact: Wayne Stroupe
Email: wayne.a.stroupe@usace.army.mil

Douglass Post Named American Society of Naval Engineers Gold Medal Awardee for 2011

Dr. Douglass Post, Chief Scientist for the High Performance Computing Modernization Program (HPCMP), has been awarded the 2011 Gold Medal by the American Society of Naval Engineers for his leadership and vision in establishing and realizing the Computational Research and Engineering Tools and Environments (CREATE) Program. Under Dr. Post's leadership, the CREATE Program is beginning to demonstrate that physics-based computational engineering tools can transform the DoD's approach to development and operation of weapons systems.

The HPCMP CREATE program is developing computational tools for the development of air vehicles, ships, and radio frequency antennas, and cross-cutting tools for Mesh and Geometry (MG) generation. The CREATE Ships Project develops and deploys design and analysis tools for assessing hydrodynamic performance and vulnerability, and develops and optimizes design concepts for naval ships. The CREATE Air Vehicles Project tools enable development of air vehicle designs, and assessment of the performance of fixed-wing and rotary-wing aircraft, including propulsion systems. The CREATE RF Antenna tools enable the design and development of multiple RF Antenna systems integrated with weapons platforms. The CREATE Meshing and Geometry Project that is being executed by the Naval Research Laboratory facilitates rapid analysis of the performance of weapons systems.

These tools have become an integral part of NAVSEA's and NAVAIR's strategy to remain world leaders in ship and aircraft design and are currently being used on the DDG-1000 Surface Combatant, the CVN 78 and 79 Aircraft Carriers and the Ohio Replacement Submarine program; the Joint Strike Fighter, F/A-18E, E-2D and various UAV designs; and are planned for use on many upcoming programs.

Dr. Post received his PhD in Physics from Stanford University, and has been the Chief Scientist for the HPCMP since 2005. He has approximately 250 publications with over 6,400 career citations. Post is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), the American Physical Society (APS), and the American Nuclear Society (ANS). He has over 34 years of experience in computations, experiments, and theory at three DOE national laboratories.

The Gold Medal Award, presented annually since 1958, is given to an individual who has made a significant naval engineering contribution in a particular area during the past five years.

About the DoD High Performance Computing Modernization Program (HPCMP)

The HPCMP provides the Department of Defense supercomputing capabilities, high-speed network communications and computational science expertise that enable DoD scientists and engineers to conduct a wide-range of focused research, development and test activities. This partnership puts advanced technology in the hands of US forces more quickly, less expensively, and with greater certainty of success. Today, the HPCMP provides a complete advanced computing environment for the DoD that includes unique expertise in software development and system design, powerful high performance computing systems, and a premier wide-area research network. The HPCMP is managed on behalf of the Department of Defense by the US Army Engineer Research and Development Center.

For more information, please visit our website at: www.hpc.mil.