PHILADELPHIA SECTION

THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

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PRESENTS

WEDNESDAY, NOVEMBER 14, 2012

CREATE: A NEW APPROACH FOR REDUCING WEAPON SYSTEM ACQUISITION TIME AND COST

DOD HPC
DEPARTMENT OF DEFENSE
HIGH PERFORMANCE COMPUTING
MODERNIZATION PROGRAM

BY:

Myles Hurwitz
DoD High Performance Computing Modernization Program

SUMMARY

The DoD is challenged to achieve significant reductions in acquisition time and costs. Under the DoD High Performance Computing Modernization Program's (HPCMP) Computational Research and Engineering Acquisition Tools and Environments (CREATE) program, led by Dr. Douglass Post, multi-physics-based computational engineering design and analysis software tools are being developed and deployed for 1) development and optimization of integrated conceptual designs and 2) high-fidelity design analysis of DoD aircraft, ship, and radio-frequency antennas weapon systems. With HPCMP's high performance computers, the DoD engineering community (government and industry) will be able to use the software tools to assess the performance of weapons systems from the initial stages of acquisition through sustainment to develop optimized designs. This will enable them to identify design defects and integration problems earlier in weapons system design and testing programs and correct the problems early in the acquisition process, before major schedule and budget commitments are made. This will result in reduced acquisition time and cost.

Mr. Myles Hurwitz, Manager of the CREATE-SHIPS Project, will present an overview of the HPCMP, the philosophy and approach of the CREATE Program, an overview of the four CREATE Projects (Aircraft, Ships, RF antennas, and Meshing /Geometry), and details of the activities of the SHIPS Project.

BIOGRAPHY

Mr. Myles Hurwitz is the Lead of the CREATE-SHIPS Project in the DoD High Performance Computing Modernization Program (HPCMP) and is a member of the technical staff of the University of Dayton Research Institute. During the period 1966-2001, Mr. Hurwitz was a member of the technical staff of the Naval Surface Warfare Center – Carderock Division (NSWCCD). At NSWCCD, prior to being selected as the Head of the Computational Mechanics Division in 1989, he developed physics-based analysis software for application to submarines. Much of this development work included enhancements to public versions of the NASTRAN finite element software. In 2002, Mr. Hurwitz became a staff member of the DoD HPCMP. Prior to his selection as the CREATE-SHIPS Project lead in 2007, he was the Project Manager of the HPCMP's User Productivity Enhancement and Technology Transfer component.

JOIN US:

WEDNESDAY ~ NOVEMBER 14, 2012

Ramada Inn – Philadelphia Airport South
76 Industrial Highway
Essington, PA 19029
Phone: 610-521-9600 / Fax: 610-521-9388

Dinner Cost: $25 for member, $30 for non-member, Free for students
Cocktail Hour (hotel bar): 5:30 pm ~ Dinner (banquet room) 6:30 pm

(ASNE and other Engineering Society Members pay member price)
For reservations or information, please call or email by Friday, November 9th, 2012

Matthew Eayre: (215) 463-3110: snamephiladelphia@gmail.com
Pete Slootmaker: (267) 984-7247: peter@slootmaker.net

Our next meeting will be the Multi-Society Meeting of the Engineers' Club of Philadelphia on Thursday December 13, 2012.