



THE LOGBOOK

A Publication of the
Wayne E. Meyer Institute of Systems Engineering
www.nps.navy.mil/meyerinstitute

Phil E. DePoy, Director

Charles N. Calvano, CAPT, USN (Ret.)
Associate Director for Education

CAPT Jeff Kline, USN
Associate Director for Experimentation

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Volume 5

Naval Postgraduate School, 777 Dyer Rd., Mail Code 97, Monterey, CA 93943, Email: MeyerInst@nps.navy.mil



*The Meyer Institute Wishes You a
Joyous and Peaceful
Holiday Season!*

Systems Analysis Certificate Program Takes Off!



Professor Jeff Kline, CAPT, USN

With collaboration from the Operations Research and Systems Engineering Departments, the Meyer Institute and NPS are now offering two certificate programs focused on Systems Engineering and Analysis for delivery in fleet concentration areas. The first certificate in Systems Analysis (SA) consists of four courses: Introduction to Naval Analysis; Combat Systems Simulation; Naval Tactical Analysis; and Naval Systems Analysis. During the latter three classes, students will apply newly gained knowledge and techniques to a Capstone Project that will address an operational challenge with immediate and/or long-term relevance to the Navy. The second, follow-on certificate is in Systems Engineering (SE) and also consists of four courses: Project Management; Systems Engineering and Architecture; Cost Analysis;

and Logistics Systems Analysis. As with the first Certificate, students will apply newly gained knowledge and techniques to a Capstone Project. The inaugural offering of the SA Certificate began this fall in San Diego for a cohort of 20 Navy officers and civilians. This program has gotten off to a great start and is already considered a resounding success. The second course begins during the winter quarter and students will receive their SA certificates after completing their final course next summer. Based on the Navy's interest in this program and its initial success, another SA Certificate is proposed to start in July in Norfolk. All four courses for this certificate will be taught during that summer quarter, and students will be detailed to the program in Norfolk in order to complete the certificate. Planning also continues for the first offering of the SE Certificate in FY 05 for those who have completed the SA Certificate. Look for more details on both programs in upcoming NAVADMIN announcements.

Sea Based Force Protection Brief December 4, 2003 Agenda ME Auditorium, NPS

0730-0800 Light Refreshments

0800-0815 Introduction

Phil DePoy, Director, Meyer Institute
CAPT Jeff Kline, USN, Associate Director for Research, Meyer Institute
Professor John Osmundson, Technical Advisor, Integrated Student Project

0815-1015 Sea Based Force Protection

Presented by Systems Engineering and Analysis, Class of 2003 Students

LCDR Ron Higgs, USN
LCDR Greg Parkins, USN
LCDR Eric Higgins, USN
LT Chris Wells, USN,
LT Vince Tionquiao, USN

1015-1045 Break

1045-1200 A Littoral Combat Ship for Force Protection

Presented by Total Ship Systems Engineering Students

LT Colin Echols, USN
LT Rodrigo Cabezas, Chilean Navy
LT Freddy Santos, USN
LT Scott Lunt, USN
LT Constance Fernandez, USN
LT Jake Didoszak, USN
LTJG Alper Kurultay, Turkish Navy
LTJG Zafer Elcin, Turkish Navy

1200-1300 Break for Lunch

1330 Breakout Sessions with Project Students

1600 No-host Social Hour, Trident Room, Herrmann Hall

CONGRATULATIONS TO THE DECEMBER 2003 WINNERS OF THE MEYER INSTITUTE AWARD FOR EXCELLENCE IN SYSTEMS ENGINEERING



LCDR RON HIGGS, USN
LT COLIN ECHOLS, USN
LTJG ZAFER ELCIN, TURKISH NAVY
PROFESSOR JOHN OSMUNDSON



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DISTANCE LEARNING NEWS

MSSE PROGRAM NEWS

January 2004 will bring a new member to the MSSE Program as Coastal Systems Station-Dahlgren Division, located in Panama City, Florida, kicks off its first Distance Learning cohort. Other MSSE program sponsoring organizations have included NAVSEA (Port Hueneme); a three command partnership composed of MCTSSA (Camp Pendleton), NAVSEA (Corona), and NAVSEA (Crane); and NAVSEA (Keyport).

On 17 November, certificate ceremonies were held at MCTSSA and NAVSEA (Corona and Crane). Students received certificates in "Military Systems Engineering Fundamentals," recognizing completion of their first three quarters of work in the MSSE Program. Professors Phil DePoy, Walter Owen, and Ben Roberts of the Meyer Institute were present to present the certificates to students at Corona, Crane, and MCTSSA. All participants were linked via video-conference for the event.

SEM-PD21 PROGRAM NEWS

September brought the graduation of six students from the SEM-PD21 program: Debra Borden (NAVAIR), Steve Bullard (SPAWAR), Michael Gomes (NAVAIR), Robert McGahern (ONR), and Jerry Bodmer (NAVSEA-CORONA). Congratulations to all!

September also saw the beginning of the fourth cohort of PD21 students. This Cohort includes students from DoD commands nationwide, including SPAWAR, NAVAIR, NAVSEA, and ONR. During the kickoff at NPS, students established working teams and began their first two courses in Organizational Processes and Leadership in Product Development. Part of the kickoff activities included an industry tour of Silicon Valley firms, including visits to Lockheed-Martin and Foundry Networks.

NEW DL BUSINESS

The Office of Distributed Learning is now managing support functions for NPS' new Certificate Program in Systems Analysis/Systems Engineering. The program is comprised of four, fully-accredited courses delivered by blended instruction (face-to-face, video teleconference, online) over a one-year period. See page one of this issue of the Logbook for more information on the program.

CONGRATULATIONS TO THE FIRST TDSI GRADUATES!

The Temasek Defense Systems Institute (TDSI) is proud to announce the graduation of the first class of the newly created NPS and National University of Singapore (NUS) joint Defense Technology and Systems dual masters degree program. This program was launched in July 2002 under the auspices of the jointly established Temasek Defense Systems Institute based in Singapore, which sponsors graduate education and research in the area of defense technology, systems engineering, and analysis. The joint NPS/NUS curriculum provides a platform for the education and the integration of operational staff and defense technologists to plan, design, develop, create, operate, and sustain Integrated Military Forces of the 21st Century. The first class was comprised of 27 Singaporean students, two U.S. students, and one Israeli student. The students were awarded two masters degrees, one from NUS and the other from NPS.

The first two quarters of the 18-month joint curriculum were conducted at NUS by faculty from NUS and NPS. The ten courses provided a firm grounding in key technical and systems engineering skills. Quarters three through six were conducted at NPS, where the students entered into designated specialization tracks such as Communication Systems, Sensor Systems, Operations Research, Information Assurance, and Guided Weapon Systems. The students blended their operational experience with a thorough technical education to integrate new technological capabilities into operational applications. An important part of this joint curriculum was participation in the 9-month NPS campus-wide Integrated Project for which the theme was "Defense of the Sea Base." Supervised by NPS faculty from five departments, the innovative TDSI Integrated Projects included a Flapping Wing Micro Air Vehicle (Mechanical Engineering), a Cooperative Radar Network (Physics), a Sea Based Information Systems Protection Plan (Computer Science), Sensor Data Fusion Networking (Electrical and Computer Engineering), and a Sea Based Analytical Model and Project Operational Test and Evaluation Plan (Operations Research).

After their successful completion of the program, the students were awarded a NUS Master of Science Degree in Defense Technology Systems and a NPS Masters of Science Degree in their appropriate technical discipline, which included Electrical Engineering, Computer Science, Mechanical Engineering, Operations Research, and Combat Systems Technology.

WELCOME TO LISA DEAS

We are delighted to announce the addition of Ms. Lisa Deas to our Distributed Learning Office. Lisa will serve as Coordinator of Distributed Learning Programs. She brings to the organization a wealth of experience in computer systems and an understanding of the needs of the distance-learning student.



For more information, please visit the following web sites:

SEM-PD21: <http://ocl.nps.navy.mil/pd21>

MSSE: <http://ocl.nps.navy.mil/msse>