5710
DEC 9 2009

MEMORANDUM FOR DISTRIBUTION

Subj: ESTABLISHING THE USNA CYBER WARFARE CENTER

1. Purpose. The purpose of this memorandum is to provide guidance regarding the establishment of a Cyber Warfare Center at the U.S. Naval Academy.

2. Background. The Department of Defense has substantially increased the emphasis and investment being made to better position the military to operate effectively in a cyber warfare environment. Among the more notable recent developments have been the establishment of a new Cyber Warfare Command (USCYBERCOM) at Fort Meade, the establishment of a new Navy Fleet Cyber Command (10th Fleet), as well as the reorganization of the OPNAV staff, merging N2 and N6 into a new information-warfare-centric organization.

Future Naval Academy graduates will be expected to know more about cyber warfare than those we have graduated in the past. The Academic Dean and Provost tasked an ad hoc committee—the Cyber Warfare ad hoc Committee, composed of faculty members and staff from all academic divisions, ITSD, the Office of the Deputy for Finance, and the Public Works Department—to examine how USNA can best ensure that the officers we provide are able to operate effectively in a cyber warfare environment, and to determine how USNA can invest our midshipmen with the tools, techniques and talents necessary to face this new environment.

In reaching its findings, the Cyber Warfare ad hoc Committee analyzed how our sister service academies and civilian undergraduate institutions incorporate cyber warfare concepts into their curricula. The Committee also examined what education and skills various graduate institutions consider necessary preparation for entry into cyber warfare related curricula at their institutions. The OPNAV and CMC staffs were asked for their perspectives on the education and training that our graduates should receive in order to help the Navy and Marine Corps in this area. The establishment of this center is an action resulting from these recommendations of the Cyber Warfare ad hoc Committee.

3. Cyber Warfare Center Mission. The mission of the Cyber Warfare Center is to enhance the education of midshipmen in all areas of cyber warfare, to facilitate the sharing of expertise and perspectives in cyber warfare from across the Yard, to provide a streamlined means of identifying priorities, to enhance inter-disciplinary research in cyber warfare, and to disseminate information, harmonize efforts and shape a common framework for cyber warfare related efforts at USNA.

The Cyber Warfare Center will provide the support necessary for the proposed curricular and professional reforms across the Naval Academy, and for advancing the quality of education of Naval Academy graduates in all areas of cyber warfare. This center will encompass support for all programs that contribute to knowledge, study and research of cyber warfare at the Naval Academy.

4. Implementation. The following actions are directed effective December 2009.

a. Governance. The Cyber Warfare Center will be organized under the USNA Academic Dean and Provost. The Center will be staffed by a Director appointed by the Academic Dean and Provost for a term of two years, renewable in two-year increments. Pending the hire and appointment of a Director, the Dean will appoint an Acting Director as necessary. As budget resources permit, the Center may be provided with one full or part-time Administrative Assistant (GS-5).

b. Steering Committee. A Steering Committee, exercising programmatic oversight, is established to ensure that the Cyber Warfare Center remains coordinated across functional areas and aligned with its mission and Naval Academy priorities. The Steering Committee will consist of the following members:

Academic Dean and Provost or designee
Associate Dean for Academic Affairs
A representative from each of the USNA Divisions appointed by the respective Division Directors
Chair of the Computer Science Department
A representative from the Information Dominance Corps (currently the Information Professional, Information Warfare and Intelligence communities) if available

c. Affiliated Faculty. The Center membership will be open to all faculty with an interest in cyber warfare who are also willing to support the activities of the Center. USNA officers in the Information Dominance Corps and on the USNA faculty should be affiliated with the Center where possible. Faculty affiliates will be appointed through a process overseen by the Director of the Center.

d. Cyber Warfare Center Services. The Cyber Warfare Center will provide the following services.

(1) The Center will serve as a focal point for cyber education, assisting in cyber warfare curriculum development and instruction across the Yard, and endeavoring to infuse cyber topics across the curriculum. The Center will assist academic departments in showing how cyber related topics might be weaved into the existing academic program, and will encourage new cyber-related electives from interested departments.

(2) The Center will coordinate with the Division of Character Development and Training to oversee the development of Midshipmen Qualification Standards regarding cyber warfare.

(3) The Center will establish and maintain relationships with government agencies such as the National Science Foundation and the National Security Agency. The Center will seek grants to fund midshipmen summer internships, as well as faculty and student research.

(4) The Center will encourage, facilitate and conduct research with students and faculty (both in-house and with outside agencies).

(5) The Center will oversee the USNA application and periodic reapplication as a National Security Agency/Department of Homeland Security National Center of Excellence in Information Assurance Education.

(6) The Center will coordinate with the USNA Research Office to facilitate cyber-related midshipman summer internship opportunities with NSA, NRL, DISA, Naval Warfare Development Command and other relevant organizations. The Center will propose that certain of these internships be deemed to satisfy a Professional Development Summer Training Block requirement.

(7) The Center will coordinate with the USNA Division of Professional Development to facilitate midshipman cyber-related summer training at USCYBERCOM, Navy Fleet Cyber Command (10th Fleet) and other relevant commands. The Center will propose that certain of these training opportunities be deemed to satisfy a Professional Development Summer Training Fleet Cruise requirement.

(8) The Center will provide facilities for, encourage, foster and oversee an interdisciplinary Midshipman Cyber Warfare Club that will aim at increasing cyber awareness across the entire student body through a host of innovative activities such as:

- Practicing hands-on network defense and attack operations
- Running cyber defense/attack competitions and games
- Introducing members to cyber communities (IP, IW and Intel)

(9) The Center will invite guest lecturers to the Academy for cyber-related presentation open to all students and faculty.

(10) The Center will make information and contacts for various cyber-relevant DoD agencies and offices available to the USNA students and faculty.

e. Resources. The Center will make recommendations to the Dean regarding the need for facilities and resources needed to meet the mission and services of the Center.

J. L. FOWLER

Distribution:
Senior Leadership Team
Division/Department Heads