GRADUATE EDUCATION IN INTELLIGENCE

NPS is planning a degree in intelligence, in full coordination with the intelligence community (IC). While NPS has offered intelligence and classified research opportunities for over twenty-five years, in December 2004 the Intelligence Reform and Terrorism Prevention Act gave authority, under the Director of National Intelligence (DNI), “to establish an integrated framework that brings together the educational components of the intelligence community in order to promote a more effective and productive intelligence community through cross-disciplinary education and joint training.”

The Intelligence Reform Act’s mandate has empowered NPS, as an accredited graduate school, to tailor selected education and research programs to accommodate IC educational requirements. NPS will soon become an affiliate member of the National Intelligence University (NIU), formed by the DNI.

NIU will:

- Oversee IC education, training and research activity
- Direct development of intelligence skills and disciplines (e.g., language, analysis, science, technology)
- Prepare for DNI at the end of each fiscal year a report on the state of IC education, training and research, including recommendations and enhancements for future years

NPS’ first opportunity to participate in the annual IC education and research assessment for DNI will be in January 2006, when DIA’s Joint Military Intelligence College (JMIC) and the chancellor of NIU will visit Monterey to review NPS education and research programs (including classified). During this NIU review at NPS, the schools and institutes will have an opportunity to describe how NPS contributes to IC education and research, meeting current and future intelligence demands.

NPS will offer three curriculum tracks in its graduate intelligence program: Science and Technology Intelligence (S&TI); Intelligence for Homeland Defense and Security (HD/HS); and Regional Security Studies.

Target NPS intelligence graduate education students are:

- Professional civilian and military members of the IC (analysts, scientists, IT, engineers)
- New members of the IC who complete university baccalaureate programs and enroll at NPS for a fifth year of graduate study
- Key law enforcement and state and local first responders, including FBI, leaders of state fusion centers and members of the HD/HS intelligence network

Options for NPS enrollment can be in-residence, network based/distant learning, or satellite campus, depending on definition of IC education requirements and sponsor funding programs. The next update will include a summary of the January 2006 NIU review of NPS intelligence education and research programs.

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COASTS BOASTS

An NPS faculty-student-contractor team is strengthening communications for disadvantaged users and key coalition partners engaged in the war on terror, specifically the ability to rapidly deploy-employ wireless mobile ad-hoc networks to adverse environments. During the coming year, the NPS Coalition Operating Area and Surveillance Targeting System (COASTS) team is conducting a series of field experiments, culminating in a joint U.S.–Thai technology demonstration in the northern mountain city of Chiang Mai, Thailand.

Several NPS schools and a current count of eight faculty and twenty-five students participate in the project, with targeted cooperatively researched topics from JC4I, NSA, CS, IS, OR and MBA. This broad base of knowledge and
operational experience provides tailored and focused research in a wide range of topics.

A primary COASTS objective is to study, integrate, test, and evaluate cost-effective, wireless, air, ground, and maritime, unattended-sensor networks. These networks provide real-time sensor-to-shooter information to tactical and remote command and control decision makers.

COASTS’ research elements are diverse, among them hastily formed communication systems, command, control and shared-situational-awareness applications, voice translations, wearable computing devices, persistent surveillance, inertial navigation, micro- and mini-unmanned aerial vehicles, and portable biometric collection-and-validation technologies.

Now in its second year of bilateral cooperative research with the kingdom of Thailand, COASTS has developed partnerships with the Thai National Security Council, Defense Research and Development Office, and the Royal Thai Armed Forces, plus domestic partnerships including the U.S. Pacific Command, the American embassy in Bangkok, and Lawrence Livermore National Labs.

The COASTS effort includes various commercial alliances utilizing collaborative research-and-development agreements. Relationships with Rotomotion UAV, Redline Communications, Mercury Data Systems, CyberDefense UAV, Identix, and other companies provide NPS students the opportunity to work closely with industry. In turn, these commercial partners gain the advantage of product testing by students experienced in operational sectors of the military, ultimately leading to iterative spiral development and increased attractiveness to governmental agencies, foreign purchasers, and non-governmental clients.

Through teamwork with COASTS’ stakeholders, a Thailand border security scenario has been created to showcase the deployable nature, flexibility, and ruggedness of COASTS systems and concepts. The scenario simulates a sustained riverine border incursion, with counter-drug and -smuggling actors.

Utilizing unattended air and ground sensors, a maritime target will be detected, tracked, and remotely observed. Information collected will enable decision-makers to determine if and when to interdict the various elements of this suspected illegal activity.

Biometric data gathered during ground and maritime interdiction processes will be pushed to Thai and U.S. fusion centers for comparison to U.S. national databases, yielding positive or negative matches to be returned to tactical forces for appropriate action.

All technology and components in this R&D exchange are fully releasable to non-U.S. partners. In response to growing interest of other allies in Southeast Asia, the COASTS management is exploring expanding its roster of relationships. This would enable robust regional communication and information sharing towards combating criminals and terrorists and improving regional and global stability.

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