



NISSSC
NATIONAL INSTITUTE OF
SCIENCE, SPACE & SECURITY CENTERS

Annual Progress Summary

To: technicalreports@afosr.af.mil and Dr. Robert Herklotz, Program Manager

Subject: Annual Progress Statement to Dr. Robert Herklotz, Program Manager

Contract/Grant Title: Network Information and Space Security Center
(aka NISSSC/CHS FY'04/'05)

Contract/Grant #: FA-9550-04-1-0239

Reporting Period: 1 September 2006 to 31 August 2007

Annual accomplishments: [200 words max]

Overview: The primary focus of the Center for Homeland Security (CHS – formerly Network Information Space Security Center) is on target to meet the needs of USNORTHCOM in research, education and training.

Areas of Educational Outreach: CHS achieved the following notable educational outreach successes for FY 07:

- (1) Delivered homeland security certificate program to USNORTHCOM personnel.
- (2) Developed and launched an undergraduate certificate in homeland security/defense.
- (3) In conjunction with the Graduate School of Public Affairs at the University of Colorado at Denver, developed a business model and curriculum for a Master of Arts in Public Administration with a concentration in Homeland Security/Defense as initiated by USNORTHCOM request. Initial curriculum to be offered Spring Term 2008.
- (4) In conjunction with the Graduate School of Public Affairs at the University of Colorado at Denver, CHS developed a business model and the curriculum for a Ph.D. in Public Affairs with a concentration in Homeland Security. Initial curriculum to be offered Spring Term 2008.
- (5) Developed a new graduate certificate program in Disaster Medicine (HLD/HLS case specific) in conjunction with US Northern Command Surgeon General's office and UCCS Beth-El Health Sciences.

- (6) Completing MOU with National Defense University to offer degree programs for NDU certificate students (principally in EAS, GSPA and the Business School)

New areas of research:

- (1) Currently funding research on Terror Management Theory and Human Factors research to support HLS psychology of terrorism studies
- (2) Collaboration with the Economic Development Corporation and Biological Targets to develop a funded Bio-Defense Research area (started; collaboration with US Northern Command)
- (3) Completed MOU with Pacific Disaster Center, in partnership with THHC, in all-hazards research; Collaborating with PDC in regional disaster management research projects
- (4) Collaboration with Colorado College and private sector on security impact of pandemic influenza (started, Dr. Andrew Price-Smith)
- (5) Developing partnership with Harvard Law School's homeland security project to share curricula and research
- (6) Developing partnership with Texas A&M, San Diego State University, Eastern Kentucky University, and private sector in emergency management (state/local) program collaboration and in a cooperative intelligence program

Archival publications (published) during reporting period:

- (1) (Previously mentioned in report for AFOSR grant 06) Zhou, Xiaobo and Dennis Ippoliti and Liqiang Zhang, Packet Scheduling for Fair Bandwidth Sharing and Delay Differentiation. Conference Proceedings, IEEE ICCCN-2007.
- (2) (Previously mentioned in report for AFOSR grant 06) Bruneau, Thomas C. and Steven C. Boraz, eds., Reforming Intelligence: Obstacles to Democratic Control and Effectiveness. Austin: University of Texas Press, 2007.
- (3) "Counter-Terrorism: Policy and Operations" (Hughbank, to be published in August; HSTODAY; full citation in FY08 Q1 report)
- (4) Textbook: Published textbook on homeland defense and security (Prof Rick White; forward written by CHS Director)
- (5) Preprint papers:
 - a. Disruptive Innovation and the Defense Industrial Base (Dr. Pierce; White paper to the Defense Science Board)
 - b. Joint paper with Dr. Haefner, "Innovation in Homeland Defense/Security Education" (HLS Education Summit, Feb 07)
 - c. Game-Informed Learning for Homeland Defense Curricula (Rick White; HLS Education Summit, Feb 07)

Changes in research objectives, if any: None

Change in AFOSR program manager, if any: None

Extensions granted or milestones slipped, if any: None