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 2007 to 31 August 2008

Annual accomplishments: [200 words max]

Overview: The primary focus of the Center for Homeland Security (CHS) (formerly known as Network Information Space Security Center) is on target to meet the needs of USNORTHCOM in research, education, and training. The CHS continues to advance its reputation as a nationally recognized leader in homeland security (HS) and homeland defense (HD) educational programs. Below are the successes and accomplishments during the reporting period.

Areas of Educational Outreach: CHS achieved the following notable educational outreach successes for FY 08:

- Completed the full sequence of three courses, and started a second cycle in the new CHS Undergraduate Certificate Program in Homeland Defense and Security.
- Developed first Transatlantic Civil Security Executive course, in conjunction with the George C. Marshall Center.
- Partnered with Business Executives for National Security and Infra-Guard to provide HS training and education assistance to federal and regional agencies supporting the Democratic National Convention (Denver, CO; August 2008).
- Partnered with Business Executives for National Security to provide education/training and USNORTHCOM-based research perspective on Public-Private Sector “Public Benefit Corporation”.
- Collaborated with Colorado College and private sector on security impact of pandemic influenza (in partnership with Dr. Andrew Price-Smith).
• Facilitated international conference on transatlantic civil security for the George C. Marshall School of European Security Studies; developed 4-week Seminars in Trans-Atlantic Civil Security (STACS) for the Marshall Center.
• Established working relationship with Colorado South Central All Hazards Region to support State and regional emergency management training, education and research. Hosted delegation from Singapore Defense Forces to discuss defense support to civil authorities and critical infrastructure protection. On their request, working with USNORTHCOM to develop and deliver an international HS training program.
• New Center Staff Added includes: Associate Directors for Curriculum Development (Richard White) and Government/Private Sector Programs (William Cain), and Faculty Directors of Information Sciences Research (Dr. Roger Sambrook), and Human Factors Research (Dr. Thomas Pyszczynski).
• Provided planning and logistics support to multi-agency and jurisdiction emergency management Exercise Entry Point.
• Supported Homeland Security Exercise Evaluation (HSEEP) - compliant weapons of mass destruction (WMD) full-scale exercise for 300+ on the University of Colorado at Colorado Springs (UCCS) Campus, City of Colorado Springs, and El Paso County emergency responders in March 2008; hosted HSEEP-compliant WMD tabletop exercise for 100+ on the UCCS Campus, City of Colorado Springs, and El Paso County emergency responders.
• Developed and refined the concept of operations for the City of Colorado Springs (CS) Emergency Operations Plan. CHS continues to work closely with the CS City Director of Emergency Management for regular plan updates and community-based (EM) strategy sessions.
• Working as USNORTHCOM educational lead to expand the Command presence in International Civil Security. Continued collaboration with Carleton University (Ottawa) to establish a joint effort in North American civil security. Developed linkage with Cranfield University (UK). Both Cranfield and Carleton have Defense Ministry sponsorship and have mature HS and civil security programs.
• Developed Geographic Information Systems (Geo-engineering) track within the Engineering Management Masters degree program at UCCS. Program to include 4 courses, including a 2-semester paper/project. This program is directed toward Department of Defense (DoD) personnel seeking to learn more about IGIS (the successor to GeoBase – the United States Air Force (USAF) installation management/GIS program).
• Authored Memorandum of Understanding (MOU) for Air Force Space Command (AFSPC) dealing with Geographic Information Systems, Emergency Management and related areas. MOU was submitted to AFSPC for edits in early July. Awaiting signatures.
• Outreach to United States (US) National Association of Cost Estimators for development of DoD oriented certificate course in project management and cost estimation.
• Initiating course development “Psychology and Terrorism”, (a special topics course) to be developed as a Senior Seminar in the Department of Psychology.
Continued preparations/discussions for first federally funded PhD in Homeland Defense/Security.

Continued preparations for delivery of the new graduate certificate program in Disaster Medicine (DM) (homeland defense/security case specific) in conjunction with USNORTHCOM Surgeon General Office and UCCS, Beth-El College of Nursing and Health Sciences. The Disaster Medicine Certificate coursework is now being reviewed by USNORTHCOM.

Consulted with United States Air Force Academy (USAFA) in the development and execution of first active shooter scenario; coordinated with Arapahoe County Sheriff’s SWAT team in conjunction with mass exercise – building stronger relations with local universities, military community, and law enforcement agencies.

New areas of research:

- Pre-proposal submitted to START (University of Maryland Study of Terrorism and Responses to Terrorism): Mitigating the Impact of Fear on Support for Terrorism and Harsh Terrorist Countermeasures in collaboration with Jessica Stern (Kennedy School of Government) and Dalia Mogahed (Gallup Center for Islamic Studies).
- Continuing research in nexus of psychology and geo-spatial applications to counter-terrorism studies.
- CHS continues to fund Human Factors research (Department of Homeland Security Directorate of Science and Technology priority area) in Terror Management Theory. The research is directed by Dr. T. Pyszczynski (CHS Director of Human Factors Research), who is leading an international field study team.
- Submitted National Science Foundation (NSF) Proposal for Geographic Information Systems Education collaboration with local industry and Pikes’ Peak Community College.
- Ongoing collaboration with Dr. Elena Mastors, Mr. Jeff Norwitz and Mr. Robert Perry at the Naval War College on Psychology and Terrorism research.
- Attended NATO Conference on Indigenous Terrorism, Budapest, Hungary, March, 2008. Ongoing research collaboration established with Anne Speckhard (US Department of State) to do experiments on root causes of terrorism in Muslim group in Morocco, Europe, and Iraq.
- Conducted an Untied States Air Force wide analysis on Emergency Management Information Systems needs. Survey approximately 1000 USAF personnel. Data were analyzed to identify key USAF information system requirements for Incident Management. Preliminary analysis sent to USAF GeoIntegration Office. Write-up of this study is completed and will be published through the NISSSC website in collaboration with AFSPC. Data will be analyzed to be published in one or more peer-reviewed publications. Write-up of this study has begun, and is in the first round of edits. This is the first study of its type within the DoD, and it has an unprecedented sample from the Incident Management community/population.
Grant Submitted (August 2008): Political Will Expert Reasoning (POWER) project in collaboration with 21CSI Inc., under STTR OSD07-T002 (Measuring and Mapping Political Will). This is a proposed phase 2 STTR project under the Office of the Secretary of Defense. POWER is an experimental, practical Political Will decision support tool for strategic planning in unstable world regions.

Ongoing research efforts by the Director of Human Factors Research, which included meeting with United States Army Psychological Services staff to arrange collaboration on studies on PTSD in returning soldiers initiating data collection on PTSD in soldiers returning from Afghanistan and Iraq, and meeting with British, Dutch, Polish, and German colleagues to set up collaboration on terrorism research.

Archival publications (published) during reporting period:


Other articles in press or published out of the Center:

Baxter, D. & Hughbank, R. J. “America’s misguided tolerance for terrorism and Islamic fundamentalism: Is it arrogance or ignorance?” American Cop Magazine. (under review).


Hughbank, R. J. “Dossier of El Paso County SWAT Team.”

Hughbank, R. J., & Hughbank, R. “Financing Terror: The Role of Charitable Foundations and Mosques within the United States.”

Hughbank, R. J. & Conkey, A. “The application of the social learning theory to domestic terrorist recruitment.”


Presentations:


**White Papers and Presentations out of the Center:**


**Book in process out of the Center:**

Hughbank, et. al. *The Dynamics of Terror and the Creation of Homegrown Terrorists.*


**Changes in research objectives, if any:** None

**Change in AFOSR program manager, if any:** None

**Extensions granted or milestones slipped, if any:** None