



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 United 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:

- Githens, Don & Hughbank, Richard J. (2007). Female terrorists: Are the Chechen black widows creating a new culture?" *COUNTER TERRORISM: The Journal of Counterterrorism and Homeland Security International*, 13(4), 14-20.
- Hughbank, Richard J. (2007). Hezbollah in the homeland. *HSToday: Insight & Analysis for Homeland Security Decisionmakers*, 4(8). Retrieved from http://www.hstoday.us/Archive/0708_TOC.cfm
- Hughbank, Richard J. & Okerland, Ronald S. (Sep 2007). Active Shooters in the Classroom: Case Histories and Proposed Tactics. *SWAT Magazine*.
- Hughbank, Richard J. (Sep 2007). Target Psychology: Understanding the Threat. *Homeland Defense Journal*. Retrieved from <http://homelanddefense.epubxpress.com/hdjl>
- Hughbank, Richard J. (2007). Understanding Jihad's next stage. *HSToday: Insight & Analysis for Homeland Security Decisionmaker*, 4(12), 8.
- Hughbank, Richard J. & Hughbank, Robert D. (Sep/Oct 2007). Terrorism: What Is It? Are We Prepared? *American Cop Magazine*.
- Roorda, Tim & Hughbank, Richard J. (2007). Threat convergence: MS-13 and al-Qaeda's deadly potential to attack America, again. *Homeland Defense Journal*, 5(12).

Other articles in press or published out of the Center:

- Anson, J., Pyszczynski, T., Solomon, S., & Greenberg, J. (in press). Political ideology in the 21st century: A terror management perspective on maintenance and change of the status quo. In J. Jost, A. Kay, & H. Thorisdottir (Eds.), *Social and Psychological Bases of Ideology and System-Justification*. New York: Oxford University Press.

- 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, Richard J. (in progress). "Understanding Jihad: The enemy's war." *HSToday: Insight & Analysis for Homeland Security Decisionmakers*. (Under Editorial Review).
- Hughbank, Richard J. (Jan 2008). "Crisis management: The critical component to any response and recovery plan." *Homeland Defense Journal*.
- Hughbank, Richard J. (Spring 2008). "Understanding terrorism and its potential impact on law enforcement strategies." *The Tactical Edge: Official Journal of the National Tactical Officers Association*.
- 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."
- Hughbank, R. J., Hughbank, R., & Githens, D. (under review). "Intelligence and Its Role in Protecting Against Terrorism." *Police and Security News*.
- Mogahed, D., Pyszczynski, T., & Stern, J. (in press). Religious engagement and violence. In C. Meister (Ed.), *The Oxford Handbook of Religious Diversity*. London: Oxford University Press.
- Motyl, M., Rothschild, Z., & Pyszczynski, T. (in press) The Cycle of Violence and Pathways to Peace. *Journal Organizational Transformation*.
- Pyszczynski, T. (in press). America, the different: A review of American against the world. *Democracy and Security*.
- Pyszczynski, T., Motyl, M., & Abdollahi, A. (in press, accepted for publication, February 2008). Righteous violence: Killing for God, country, freedom, and justice. *Journal of Terrorism Research*
- Pyszczynski, T., Rothschild, Z., & Abdollahi, A. (in press, accepted for publication, March 2008). Terrorism, violence, and hope for peace: A terror management perspective. *Current Directions in Psychological Science*.
- Pyszczynski, T., Rothschild, Z., Motyl, M., & Abdollahi, A. (in press, accepted for publication August 2008). The cycle of righteous destruction: A terror management theory perspective on terrorist and counter-terrorist violence. In Stritzke, Lewandowsky, Denmark, Morgan, & Claire (eds.), *Terrorism and torture: Interdisciplinary perspectives*. Cambridge University Press).

- Radil, S. R., & Sambrook R.C. (review pending) Quantitative analysis of developmental factors in terrorism. *Submitted to Terrorism and Political Violence*.
- Roorda, T. & Hughbank, R. J. (review pending). Threat convergence: MS-13 and al-Qaeda's deadly potential to attack America, again." *Homeland Defense Journal*.
- Sambrook R. C. (2008). Spatial behavior analysis at the global level using fractal geometry. *Nonlinear dynamics, Psychology and Life Sciences*, 12(1), 3-13.
- Sambrook R. C. & Radil, S.R. (in press) Quantitative analysis of developmental factors in terrorism. Submitted to *Terrorism and Political Violence*.
- Weise, D., Pyszczynski, T., Cox, C., Arndt, J., Greenberg, J., Solomon, S., & Kosloff, S. (in press, accepted for publication September 2007). Interpersonal politics: The role of terror management and attachment processes in political preferences. *Psychological Science*.
- Weise, D., Pyszczynski, T., Cox, C., Arndt, J., Greenberg, J., Solomon, S., & Kosloff, S. (in press). Interpersonal Politics: The Role of Terror Management and Attachment Processes in Political Preferences. *Psychological Science*.
- Weise, D., Pyszczynski, T., & Greenberg, J. (under review). Moral politics and terror management: Effects of mortality salience on the prioritization of morally charged political issues. *Journal of Political Psychology*.

Presentations:

- Pyszczynski, T., (2007, August). The cycle of righteous destruction: A terror management theory perspective on terrorist and counter-terrorist violence. Presented at the *University of Western Australia, Center for Advanced Studies, Symposium on Terrorism and Torture*. Perth, Australia.
- Pyszczynski, T. (2007, September). A terror management perspective of support for terrorist and counter-terrorist violence. Presented at *CICA-STR Symposium on Interdisciplinary analyses of aggression and terrorism*. Miraflores, Spain.
- Pyszczynski, T. (2007, October). *What's God got to do with it: The psychology of religious violence*. Presented at the Brookings Institute, Washington, DC.
- Recca, S. (2008, January). *Advocating for Sustainable Homeland Defense and Security Professional Programs*. Presented at the Naval Postgraduate School Center for Homeland Defense and Security, Monterey, CA.
- Recca, S. (2008, March). *Developing Metrics for Homeland Defense and Security Careers*. Presented at the Annual Homeland Defense and Security Education Consortium Summit, College Park, MD.

Recca, S. (2008, July). *Critical Infrastructure Protection: Shifting to a Resilience Model*. Presented at the Seminar in Transatlantic Civil Security, George C. Marshall European Center for Security Studies, Garmisch-Partenkirchen, GE.

White, R. (2008, July). *Understanding the U.S. Incident Command System: Lessons Learned for International Partner Development*. Presented at the Seminar in Transatlantic Civil Security, George C. Marshall European Center for Security Studies, Garmisch-Partenkirchen, GE.

White Papers and Presentations out of the Center:

Radil, S. R., & Sambrook, R. C. (2008- presentation accepted). Development as security? An analysis of relationships between human development and terrorism. Paper presented at the 2008 Annual conference of the American Association of Geographers, Boston, MA.

Robillard, J. & Sambrook, R. C. (2008) USAF emergency and incident management systems: A systematic analysis of functional requirements. USAF Office of Geointegration. Briefing for Chief of Staff (USAF) expected in September 2008.

Clarke, J. L., & Sambrook, R. C. (2007) A review of emergency operations center and crisis control software. White Paper US Air Force Office of GeoIntegration.

Pyszczyński, T. (2008, May). Anxiety-buffer disruption theory: A new perspective on post-traumatic stress. Presented at US Army Medical-Surgical and Behavioral Medicine Conference, Sonthofen, Germany.

Pyszczyński, T. (2008, May). When the buffer breaks: An application of terror management theory to traumatic Stress. Colloquium presented at the University of Amsterdam, Amsterdam, The Netherlands.

Pyszczyński, T. (2008, June). When the buffer breaks: An application of terror management theory to traumatic stress. Presented at Conference on New Developments in Social Psychology, Warsaw, Poland

Pyszczyński, T. (2008, June). The cycle of righteous destruction: A terror management theory perspective on terrorist and counter-terrorist violence. Presented at European Association of Experimental Social Psychology Small Group Conference on Dehumanization, Kacmierz, Poland.

Robillard, J; Scott, L.; Bolish, S.; Sambrook, R. (2007). Commercial emergency management software, evaluation methods and findings. Air Force Office of GeoIntegration White Paper.

Sambrook, R. C. (2007). An assessment of emergency operations center current technologies. White Paper for the United States Space Command.

Sambrook, R (2008, June). The relationship between psychology, socio-economic development and terrorism. Presented at the 9th Biennial meeting of the Society for the Psychological Study of Social Issues (SPSSI).

Book in process out of the Center:

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

Sambrook, R.C. & Mastors, E. (2009). *Psychology and Terrorism*. Blackwell, London.

Changes in research objectives, if any: None

Change in AFOSR program manager, if any: None

Extensions granted or milestones slipped, if any: None