

The DHS Centers of Excellence



Science and Technology Directorate
Office of University Programs
April 8, 2008



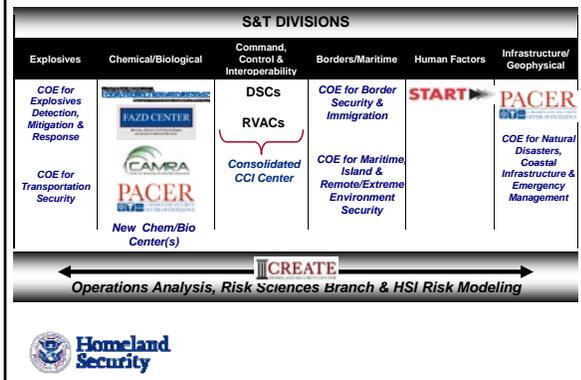
Centers of Excellence (COEs)

- Alignment
- Education and research pipeline
- Accomplishments
- Chemical/Biological COEs
 - Center for Advancing of Microbial Risk Assessment (CAMRA)
 - Foreign Animal and Zoonotic Disease (FAZD) Center
- National Center for Food Protection and Defense (NCFPD)
- National Center for Preparedness & Catastrophic Event Response (PACER)

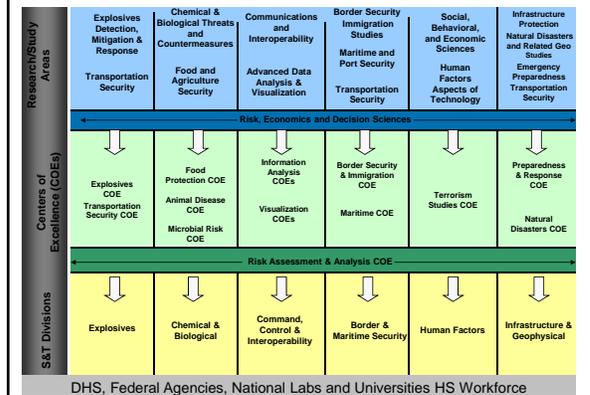


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COE Alignment



Education & Research Pipeline



COE Accomplishments

Accomplishments: All COEs	
Categories of Accomplishments	Number/Amount
Students matriculated	498
Papers	613
Software Products Developed	57
Patents	10
Requests for assistance or advice from DHS	114
Requests for assistance or advice from Federal, State, Local Government	101
Follow-on funding from other sources	\$ 22,295,654
Presentations	1543
Congressional Testimonies	9
Projects Completed	82



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Award Date: June 2004

Mission

To develop critically reviewed and interpreted sets of models, tools and information that will be used in a credible risk assessment framework to reduce or eliminate health impacts from deliberate use of biological agents of concern (BAC) as bioterrorists agents in the indoor and outdoor environment.

Impact and Relevance

- Provide scientific basis for assessing risks of natural and malicious occurrences of infectious agents
- Provide scientific basis for assessing "how clean is clean"

Partners

Drexel Univ. (co-lead), Univ. of Michigan, Univ. of Arizona, Northern Arizona Univ., Carnegie-Mellon Univ., Univ. of California-Berkeley

* Minority Serving Institutions

Customers

DHS Science and Technology Directorate
US EPA - National Homeland Security Research Center
Local government agencies



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FAZD CENTER
Food and Agriculture Zoonotic Pathogen Research Center

<p>Award Date: June 2004</p> <p>Mission To protect against the introduction of high-consequence foreign animal and zoonotic diseases into the United States, with an emphasis on prevention, surveillance, intervention and recovery</p>	<p>Partners Huston-Tillotson Univ.; Univ. of California-Davis, Univ. of Maryland, Univ. of Southern California, Univ. of Texas Medical Branch, Univ. of Wisconsin-Madison * <i>Minority Serving Institutions</i></p>
<p>Impact and Relevance</p> <ul style="list-style-type: none"> • Developing new methods for rapid and accurate detection of foot and mouth disease, rift valley fever, and avian influenza • Developing new vaccines and antiviral agents to protect animals from introduced diseases • Developing approaches to curtail disease spread 	<p>Customers DHS Science and Technology Directorate DHS Preparedness Directorate DHS Office of Health Affairs Chief Veterinary Officers State Departments of Agriculture Agriculture Industry</p>

MISSION CENTER FOR FOOD PROTECTION AND DEFENSE
A Homeland Security-Critical Enterprise

<p>Award Date: June 2004</p> <p>Mission To defend the safety of the food system from pre-farm inputs through consumption by establishing best practices, developing new tools and attracting new researchers to prevent, manage and respond to/recover from food contamination events</p>	<p>Partners Cornell Univ., Georgia Institute of Technology, Illinois Institute of Technology, New Mexico State Univ., North Carolina State Univ., North Carolina A&T State Univ., North Dakota State Univ., Michigan State Univ., Rutgers Univ., Purdue Univ., Saint Joseph's Univ., Texas A&M Univ., Tuskegee Univ., Univ. of Arkansas, Univ. of California-Davis, Univ. of Illinois-Urbana-Champaign, Univ. of Maryland, Univ. of Missouri-Columbia, Univ. of South Carolina, Univ. of Southern Mississippi, Univ. of Tennessee-Knoxville, Univ. of Wisconsin-Madison, Univ. of Wisconsin-Milwaukee, Univ. of Wisconsin-River Falls, Wayne State Univ. * <i>Minority Serving Institutions</i></p>
<p>Impact and Relevance</p> <ul style="list-style-type: none"> • Developed prototype food event modeling system • Developed initial realistic decontamination protocols involving surrogate agents and food matrices • Developed new risk communication approaches minimizing potential impact of food contamination events 	<p>Customers DHS Science and Technology Directorate DHS Preparedness Directorate DHS Office of Health Affairs USDA, FDA, CDC and EPA State and Local Food System Agencies Food and Agriculture Private Sector</p>

PACER
A HOMELAND SECURITY CENTER OF EXCELLENCE

<p>Award Date: August 2006</p> <p>Mission Improve the Nation's preparedness in the event of a high consequence natural or man-made disaster, and develop best practices to alleviate the event's effects</p>	<p>Partners Florida A&M Univ., Florida State Univ., Jacksonville State Univ., JHU School of Advanced International Studies, JHU Applied Physics Lab, JHU School of Medicine, Loma Linda Univ., Morgan State Univ., Univ. at Buffalo, Univ. of Alabama-Birmingham, Univ. of Alabama-Tuscaloosa, Univ. of South Florida * <i>Minority Serving Institutions</i></p>
<p>Impact and Relevance</p> <ul style="list-style-type: none"> • Develop tools to assess risk readiness for catastrophic events • Improve response capabilities of agencies and first responders by harnessing the strength of informal networks • Identify communications and data fusion techniques to improve situational awareness and critical decision making 	<p>Customers DHS Science and Technology Directorate DHS Preparedness Directorate DHS Office of Health Affairs DHS Policy Office Civil Rights Civil Liberties State Homeland Security Agencies</p>

 **Homeland Security**