Working Together:
R&D Partnerships in Homeland Security

A Research and Development Partnering Conference Sponsored by Homeland Security's Science and Technology Directorate

April 27 and 28, 2005

Seaport Hotel and World Trade Center
Boston, Massachusetts

About the Conference

This two-day conference will focus on state-of-the-art research and development (R&D) to anticipate, prevent, respond to, and recover from high-consequence chemical, biological, radiological, nuclear, explosives and cyber terrorist threats. The conference will also address R&D to protect the nation's critical infrastructure, and the harnessing of science and intelligence to reduce threat and risk.

The conference will bring together more than 600 scientists and engineers supporting homeland security R&D for information exchange and subsequent collaboration. The conference program includes plenary, technical and poster sessions; keynote addresses by the Under Secretary and Assistant Secretary for Science and Technology; an April 26th pre-conference reception at the Boston Museum of Science; and an April 27th banquet.

To learn more, visit:
www.homelandsecurityresearchconference.org

About the Sponsor

This conference is sponsored and organized by the Department of Homeland Security's Science and Technology (S&T) Directorate, whose mission is to conduct, stimulate and enable research, development, test and evaluation (RDT&E), and the timely transition of homeland security capabilities to federal, state and local operational end-users.

DHS is committed to science and technology leadership, and the creation of an enduring national capability for homeland security. Toward this end, the S&T Directorate supports and recognizes technical excellence in RDT&E of homeland security technologies; encourages collaborations across the homeland security science and technology complex; actively disseminates knowledge generated through the execution of RDT&E programs and university-based homeland security centers; and to the greatest extent practical, enhances visibility and recognition of scientists and engineers dedicated to homeland security missions.

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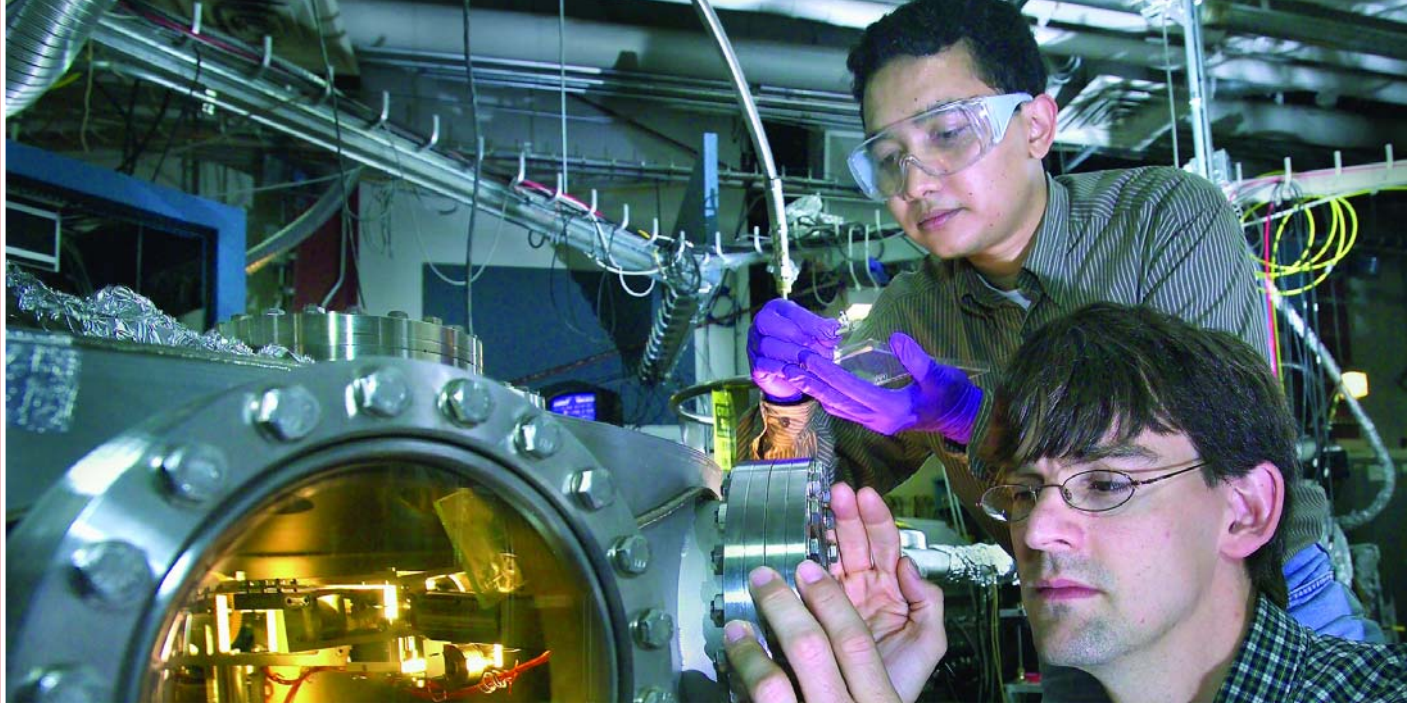
Technical Program

The conference features 30 technical sessions, through which participants will hear about R&D objectives and innovative, science-based approaches to addressing technical challenges and knowledge gaps. Technical and poster sessions on the following topics will be presented:



Chemical Countermeasures

- Threat Characterization
- Detection of TICs and TIMs
- Forensics and Attribution
- Detection of Low Volatility and Chemical Warfare Agents
- Recovery and Restoration of Critical Facilities

Radiological and Nuclear Countermeasures

- Threat Characterization
- Passive Detection Technologies and Evaluation
- Data Integration Systems
- Active Detection Technologies and Evaluation
- Responding to and Recovering from Radiological Dispersion Devices

Threat and Vulnerability Assessment

- Semantic Graphs
- Anticipating Technology-Based Threats
- Socio-Behavioral Dynamics of Terrorism
- Discrete Sciences
- Visual Analytics

Biological Countermeasures

- Threat Characterization
- Working Together to Safeguard Animal Health
- Forensics and Attribution
- Surveillance and Detection
- Post-event Recovery and Restoration

Explosives Countermeasures

- Explosive Threat and Countermeasure Overview
- Bulk Detection
- Advances in Trace Explosive Detection Technology
- Trace Microsensors
- Render Safe and Defeat

Critical Infrastructure Protection and Cyber Security

- Sensor Performance Improvement
- Advanced Risk Modeling, Simulation and Analysis for Decision Support
- Next-Generation Designs and Architecture for Devices and Systems
- Addressing the Insider Threat
- Large-Scale Situational Awareness for Critical Infrastructure