Research for Homeland Security

A Panel Discussion

Snowbird
July 16, 2002

Participants

- **Peter Freeman**, Ph.D., AD/CISE, NSF - moderator
- **Ed Lazowska**, Ph.D., - Univ. of Washington - "Overview of Branscomb Report"
- **Gene Spafford**, Ph.D. - Purdue University - "Cybersecurity & critical infrastructure protection"
- **Gary Strong**, Ph.D. - EIA/CISE/NSF - "Research for Intelligence and Security"
- **William Yasnoff**, MD, Ph.D., - CDC and Public Health Informatics Institute - "Research Needed for the Public Health System"
- **You, the audience!**

Overview

- We are at point in time that is like the start of the Cold War

- It will last a generation or more

- The nature of the enemy - and his location - is very unclear

- How to respond is sometimes unclear, but overall we know a lot that can be done

- Mobilization of efforts in formerly unsophisticated agencies now underway

- Our community must be a key player

NSF Context

- NSF's relationship to the highest-quality, most advanced scientific and engineering communities is rapidly becoming known within the government (!).
- NIST, DARPA, other high-tech agencies also involved
- NSF does not support classified research
- Some of our supported research is immediately relevant - we help make connections to operational agencies - additional $
- New, fundamental areas of research are appearing - possible $
- Additional arrangements between PI's and agencies not NSF's business
- NSF exploring new activities to support the rest of government - already doing so with e-gov program

Agenda

- Overview and context

- Branscomb report

- Short presentations by panelists on research needs

- Questions/comments from audience

- Wrapup

WRAPUP

- S&E, especially IT, fundamental to national and homeland defense

- Much of the needed research (as opposed to development) is unclassified

- We all have a **strong** responsibility to assist national efforts in ways that we are each comfortable with

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