



**E. R. ZUMWALT, JR.**  
ADMIRAL, U.S. NAVY (RET.)

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Lisa Gordon-Hagerty  
Director, Transnational Threats  
National Security Council  
The White House  
1600 Pennsylvania Avenue, NW  
Washington, DC 20500

Dear Lisa:

As a follow-up to our conversation which I found tremendously helpful, I attach a copy of the briefing I was given at Texas Tech. Within a few days I will send over a detailed plan.

Keep up the great work.

Sincerely,

E. R. Zumwalt, Jr.  
Admiral, USN (Ret.)

1000 Wilson Boulevard, Suite 3105  
Arlington, VA 22209-3901

Tel: (703) 527-5380  
Fax: (703) 528-5795

Enclosure

**EXECUTIVE SUMMARY**  
**A PROGRAM OF COUNTERMEASURES TO CHEMICAL AND BIOLOGICAL AGENTS**

**The Institute of Environmental and Human Health (TIEHH)**  
**Texas Tech University/Texas Tech University Health Sciences Center**  
**(TTU/TTUHSC)**

**Overview of White Paper:** The attached document is submitted to Admiral Elmo Zumwalt on occasion of his visit to Texas Tech (January 25, 1999), and provides a brief overview of research and facility capabilities related to our purpose and focus, stated below. Following the briefing, and after further consultation with Admiral Zumwalt, a more detailed Statement of Work will follow.

**Purpose:** To conduct basic and applied research, education, and training to improve civilian defense, and act as a national centralized facility for information and resources in case of an actual bioterrorist attack. TTU/TTUHSC/TIEHH and Reese Center is in a unique position to offer this critical service to the nation.

**Focus:** Drawing from multiple disciplines and pools of expertise (universities, government, the public sector), develop a working infrastructure for on-site interdisciplinary research and training in countermeasures to CB agents. Goals will be to improve:

- Detection of CB agents
- Understanding of basic biological mechanisms
- Implementation of physical and medical countermeasures for use on a regional/national scale
- Real-time and rapid-time modeling (epidemiological, toxicological, physical), and
- Education and training, with on-site and virtual reality capabilities.

An overall goal will be to integrate environmental and human health issues in the identification and resolution of any perceived CB threat.

**Strengths of the Program:**

- Centralized geographic location, regionally and nationally
- Year-round operational capability at Reese Center (former airforce pilot-training base) with permanent buildings for on and off-site education, training, and response capability
- State-of-the art facilities for toxicological research at The Institute of Environmental and Human Health
- Integrated University system, including medical and law school
- Strong track record of interdisciplinary work, with universities, government, military, and community groups
- Texas Department of Health and community support
- Secure facility
- Room for development and expansion
- State-of-the-art communication capability for medical and training outreach
- Supercomputer on-site
- Accountability in research with experience in good laboratory practice (GLP) studies