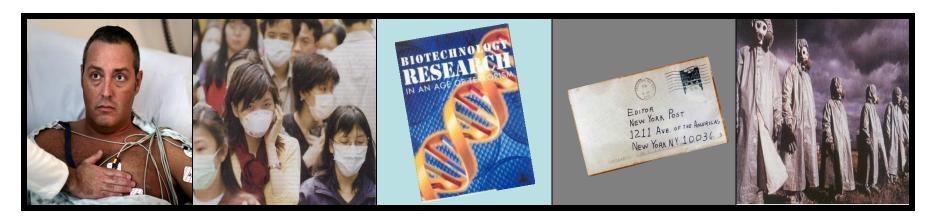
The Role of Leadership and Culture within the Laboratory

Some challenges and thoughts on how to address them...



David R. Franz

2nd World Conference on Research Integrity
Pan Pacific Hotel Singapore
21-24 July 2010

The Biodefense 'build-up' in Context

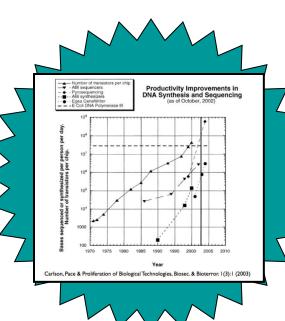
2003

2000 - Mouse pox and IL-4



9-11-01





10-4-01

2002 - Synthesis of Poliovirus (2nd)

2002 - Smallpox "SPICE"

ca. \$6 Billion annually... Dual-Use Research of Concern...

SATURDAY

AUGUST 2, 2008

fredericknewspost.com | Vol. 125 | No. 293 | 4 Sections | Press Run: 43,268 | FINAL

50€

OCTOBER: Anthrax is mailed to lawmakers on Capitol Hill and news media in New York and Florida, By November, five people are dead and 17 others sickened.

JANUARY: Senate office building reopens. FBI doubles the reward to \$2.5 million.

JUNE: FBI scrutinizes 20 to 30 scientists who had knowledge and opportunity to send the anthrax letters.

AUGUST: Law enforcement officials call Steven J. Hatfill, a biowarfare expert, a "person of interest."

JUNE: FBI drains pond in Frederick, in search of anthrax-related evidence. Nothing suspicious is found.

AUGUST: Hatfili sues government officials, accusing them of using him as a scapegoat.

DECEMBER: Postal workers begin moving back into Washington's main mail center, almost two years after anthrax-laced letters killed two employees.

FEBRUARY: A white powder determined to be the deadly poison ricin is found in an office of Senate Majority Leader Bill Frist. No one is hurt and no arrests are made.

JULY 11: BIOONE, a company founded by former NYC Mayor Rudolph Giuliani, begins fumigating former headquarters of The Sun, the Florida tabloid that was targeted first.

JULY 12: Testing determines The Sun's headquarters is free of anthrax.

JULY 13: Hatfill sues The New York Times for

ANTHRAX BREACH INVESTIGATION

FEDERAL AGENTS WERE CLOSING IN, AND BRUCE IVINS KNEW IT.

THE ARMY MICROBIOLOGIST WHO WAS WORKING ON A VACCINE FOR ANTHRAX POISONING WAS NOW BEING GRILLED AS A SUSPECT IN THE 2001 LETTER ATTACKS THAT KILLED FIVE PEOPLE AND SICKENED 17. FBI AGENTS WERE STAKING OUT HIS HOUSE, IVINS WAS A FREDERICK RESIDENT WHO WORKED AT THE U.S. ARMY MEDICAL RESEARCH INSTITUTE OF INFECTIOUS DISEASES. HE DIED TUESDAY IN AN APPARENT SUICIDE, AUTHORITIES WERE PLANNING TO CHARGE HIM WITH MAILING THE TOXIN-LACED LETTERS, WHICH SPREAD NATIONWIDE ALARM JUST WEEKS AFTER THE SEPT. 11, 2001, TERROR ATTACKS IN NEW YORK AND WASHINGTON.

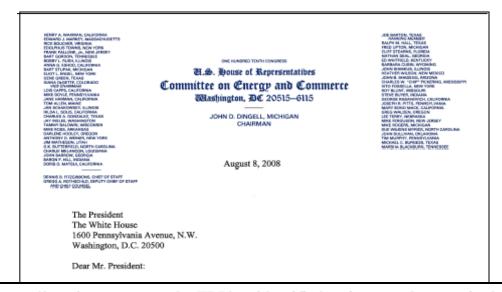


ANTHRAX CASE TURNS SCIENTIST COMMITS SUICIDE AS FBI PROBE TIGHTENS

THE PLACES AND THE PLAYERS



The Dingell – Stupak Letter



If these allegations are true, the FBI has identified serious weaknesses in the security at one of our Nation's premier laboratories for the study of some of the most deadly pathogens in the world. Their allegations also raise equally troubling security concerns about the thousands of other scientists and technicians who work at hundreds of labs across our country with "select biological agents" such as anthrax.

investigation into the adequacy of the physical and personnel security systems in place at all Government-run or -sponsored Biosafety Level 3 and 4 laboratories (BSL 3 and 4) in the United States. In addition, until your investigation is complete and the results of that investigation are reported to you and Congress, we urge you to order the suspension of all further design and construction of such laboratories.

Sincerely,

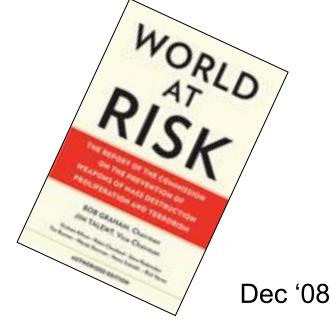
Sincerely,

John D. Dingell
Chairman
Subcommittee on Oversight and Investigations

WMD Commission of 2008

"The United States should be less concerned that terrorists will become biologists and far more concerned that biologists will become terrorists."

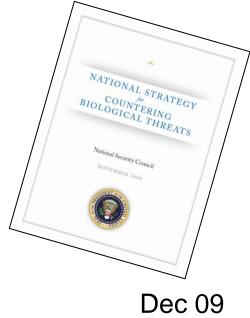




New Committee Reports since 28 July 08

1. DoD/DSB Study---Feb 09

2. NSABB Study---May 09



3. Trans Federal Task Force--- Jul 09

4. National Academies Study---Sep 09

Biological 'Surety' 2008

- Biological 'Surety'
 - Biological Safety
 - Physical Security
 - Agent Accountability
 - Personnel Reliability*,

^{*} Requires that persons with access to select agents **are "mentally alert, mentally and emotionally stable, trustworthy, and physically competent".**AR 50-1

Personnel Reliability: AR 50-1

28 July 08....AR 50-X since 2004

2–8. Other disqualifying factors

Any of the following traits,, based on the certifying official's informed judgment.

- d. Inappropriate attitude, conduct, or behavior...
- (1) **Negligence or delinquency** in performance of duty.
- (2) ... a contemptuous attitude toward the law, regulations, or other duly constituted authority....
- (3) Poor attitude or lack of motivation... arrogance, inflexibility, suspiciousness, hostility, flippancy toward BPRP responsibilities, and extreme moods or mood swings.
- (4) Aggressive/threatening behavior toward other individuals.
- (5) Attempting to conceal PDI [potentially disqualifying information] from certifying officials

Personnel Reliability: AR 50-1

28 July 08....AR 50-X since 2004

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"This reminds me of many scientists I know. Really smart people are often just a tiny bit weird and quirky, in case you haven't noticed...and often irritating..."

web blog editorial

The 'insider threat'

Enlightened Leadership

Regulatory Oversight

Lead with Science

Quality Research

Emphasis on Safety

Vision

Education

Responsibility

Accountability

Honesty

Transparency

Ethics

Lead with Security

Guns, Gates and Guards

Background Checks

Psychological Evaluation

Lists & Pathogen Control

A Culture of Mistrust?

Some labs will need some of the right column, but every lab can benefit from the left...

A Culture of Trust and Accountability

Which will make us safer and more productive?

The 'insider threat'

Enlightened Leadership

Regulatory Oversight

Lead with Science

Quality Research

Emphasis on Safety

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Lead with Security

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Background Checks

Psychological Evaluation

Lists & Pathogen Control

A Culture of Mistrust?

A Culture of Trust and Accountability

Which will make us safer and more productive?

Seeking Balance

Security, Safety and Productivity

Biosafety: Necessary, understood and very important.

Biosecuirty: Necessary, not always understood and can be overdone.

Enlightened Leadership: Necessary, sometimes underappreciated and more is usually better.

Thoughts on the way ahead...

- Life sciences community takes back momentum:
 - Transparency in science
 - Communicate, Educate, Recruit...Lead!
 - Demonstrate a Culture of Responsibility
 - Build Public Trust
- Work with "the Regulators" and concerned citizens to:
 - Carefully consider <u>real risk</u>
 - Carefully consider <u>real value</u> of all solutions
 - Consider the entire cost of all solutions
 - Real costs: Equipment, scientist time, Decreased 'tooth-to-tail' ratio
 - Intangible costs: Scientists move to other fields, Research offshore
- Seek solutions that limit frustration to scientists

"Zero Risk" is not an option... We can't afford it!

There are many risks out there, but we can't stop working toward the good that can come from biotechnologies and knowledge...



www.biosecurityboard.gov

NATIONAL SCIENCE ADVISORY BOARD FOR BIOSECURITY

DOES YOUR RESEARCH RAISE SECURITY CONCERNS?

STRATEGIES FOR PROMOTING RESPONSIBLE RESEARCH IN THE LIFE SCIENCES

An Interactive Webcast

September 22, 2010, 8:00 AM - 10:30 AM (Eastern Daylight Time) (1200 – 1430 GMT)

Sponsored by t with the Europ Microbiology a

Effective globa balance betwe internet-based research visit <u>v</u>

WHO SHOULD

REGIONAL FOC

Dual Use Concerns In Life Sciences Research: An International Dialogue (English)

[File View Play Favorites Iools Help - - >



al Science Advisory Board for Biosecurity; in partnership science Foundation, the European Society of Clinical



in effective in a series of life sciences



EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES





