

# First Meeting of the National Science Advisory Board for Biosecurity

**June 30 – July 1, 2005**

Hyatt Regency Bethesda  
7400 Wisconsin Ave.  
Bethesda, Maryland, 20814 USA  
Hotel Phone: 301-657-1234

## Agenda

**Webcast:** To watch the live webcast of the meeting, [click here](#). The webcast can only be viewed when the meeting is in session at 8:00am-6:00pm on June 30 and at 8:00am-1:30pm on July 1 Eastern Time.

You will need RealOne Player to view the webcast. If you do not already have RealOne Player on your computer, [download here](#).

**Presentation slides:** To access the following PowerPoint presentations, click on the presentation titles below.

### **June 30, 2005**

#### **Opening Remarks and Swearing in Ceremony**

Elias Zerhouni, M.D.  
Director of the National Institutes of Health (NIH)

#### **Chair's Remarks and Agenda Overview**

Dennis L. Kasper, M.D.  
NSABB Chair  
Harvard Medical School

#### **Introduction of NSABB Members**

#### **NSABB Structure and Operations**

Thomas Holohan, M.D.  
NSABB Executive Director, NIH Office of Biotechnology Activities

#### **Break**

#### **Perspectives on Biosecurity in the Life Sciences**

NSABB Voting Members

#### **Impetus for NSABB: Enhancing Biosecurity on the Life Sciences**

Rajeev Venkayya, M.D.  
Special Assistant to the President,  
Senior Director for Biological and Chemical Defense

White House Homeland Security Council

**Perspectives on Biosecurity in the Life Sciences**

NSABB *Ex Officio* Members

**Lunch**

**Session I- The Development of Criteria for Identifying Dual Use Research and Research Results**

**Introduction: Issues of Relevance to Criteria Development**

Arturo Casadevall, M.D., Ph.D.

Professor of Medicine and of Microbiology & Immunology and Chief of Infectious Diseases

Albert Einstein College of Medicine

**National Research Council Perspective: Experiments of Concern**

Ron Atlas, Ph.D.

Center for the Deterrence of Biowarfare and Bioterrorism

University of Louisville

**Dual Use Dilemma: What are the Best Parameters?**

David R. Franz, Ph.D., D.V.M.

Chief Biological Scientist

Midwest Research Institute

**General Discussion and Questions from the Board**

Session I Speakers

**Break**

**Balancing Biosecurity and Scientific Progress: The Need for a Culture of Responsibility**

Anthony Fauci, M.D.

Director, NIH National Institute of Allergy and Infectious Diseases

(NIAID)

**Session II- Communication of Dual Use Research Results, Methods, and Technologies**

**The Challenge to the Life Sciences: Balancing Security and Academic Freedom**

Judith V. Reppy, Ph.D.

Associate Director, Peace Studies Program

Cornell University

**Past as Prologue: Are there Lessons to be Learned from the Nuclear Physics and Cryptography Communities**

Thomas Bowles, Ph.D.

Chief Science Officer

Los Alamos National Laboratory

**Scientific Publication and Security: The Perspective of Scientific Journal Editors and Authors**

Phil Campbell, Ph.D.  
Editor-in-Chief  
*Nature*

**Overview of Recent International Discussions**

Wendy D. White  
Director, Board on International Scientific Organizations  
The National Academies

**General Discussion and Questions from the Board**

Session II Speakers

**Public Comments**

**Adjourn for the Day**

**July 1, 2005**

**Welcome and Agenda Overview**

NSABB Chair

**Session III- Codes of Conduct in the Life Sciences**

**Promoting and Enhancing Responsible Research in the Life Sciences: The Role of a Code of Conduct**

Phillip A. Sharp, Ph.D.  
Institute Professor at the Center for Cancer Research  
Massachusetts Institute of Technology

**Challenges in Proposing a Code of Conduct with Dual Use Perspectives**

Brian Rappert, Ph.D.  
University of Exeter, Exeter, U.K.

Malcolm Dando, Ph.D.  
Bradford University, U.K.

**General Discussion and Questions from the Board**

Session III Speakers

**Section IV- Dual Use Research: International Perspectives**

**Dual Use Research: International Perspectives**

Shana Dale, Esq.  
Chief of Staff and General Counsel  
Office of Science and Technology Policy, White House

**Break**

## **Session V- Chemical Synthesis of Bacterial and Viral Genomes**

### **Gene Synthesis Technology: State of the Science**

J. Craig Venter, Ph.D.  
Founder and President  
J. Craig Venter Institute

### **Potential Risks and Benefits of Genome Synthesis**

George Church, Ph.D.  
Professor of Genetics, Director of the Center for Computational Genetics  
Harvard Medical School

### **Biosecurity Concerns Involving Genome Services Providers: An Industry Perspective**

John Mulligan, Ph.D.  
President and CEO  
Blue Heron Biotechnology

### **General Discussion and Questions from the Board**

Session V Speakers

### **Next Steps**

NSABB Chair

### **Public Comments**

### **Adjournment**