

# A

## Workshop Agenda

### Science and Technology to Counter Terrorism An Indo-U.S. Workshop

Goa, India, January 12-14, 2004

#### Agenda

##### MONDAY, JANUARY 12, 2004

##### Opening Session

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|---------------|--|
| 9:15 – 9:25   | Welcome<br><i>Roddam Narasimha and Kumar Patel</i>   |
| 9:25 – 9:35   | Committee on International Security and Arms Control's<br>Role in Workshop<br><i>John P. Holdren</i> |
| 9:35 – 9:45   | Background on the Workshop, Objectives<br><i>Roddam Narasimha</i>                                    |
| 9:45 – 10:15  | Workshop Program and Expectations<br><i>Kumar Patel</i>  |
| 10:15 – 10:30 | Indo-U.S. Science and Technology Cooperation<br><i>Y.P. Kumar</i>                                    |

## **Session I: Survey of Terrorist Threats in the United States and India and Relevant Science and Technology**

Chair: M.K. Narayanan

Discussion Moderators: B. Raman and Harry Barnes

- 10:30 – 11:15      Science, Technology, and Countering Terrorism: The Search for a Sustainable Strategy  
*Lewis M. Branscomb*
- 11:15 – 11:30      Tea Break
- 11:30 – 12:15      Terrorist Threats in India  
*Major General (Retired) Afsir Karim*
- 12:15 – 13:30      Discussion of Terrorist Threats in the United States and India and Relevant Science and Technology
- 13:30 – 14:30      Lunch

## **Session II: Information Technology and Communications Security**

Chair: Roddam Narasimha

Discussion Moderators: Raja Menon and Kumar Patel

- 14:30 – 15:15      Information Technology and Communications Security in India  
*N. Balakrishnan*
- 15:15 – 16:00      Cyberterrorism and Security Measures  
*S.E. Goodman*
- 16:00 – 16:15      Tea Break
- 16:15 – 17:30      Discussion of Information Technology and Communications Security

## **Plenary Session**

- 18:30 – 19:00      All Participants are Seated
- 19:00 – 19:05      Arrival of the President of India, National Anthem
- 19:05 – 19:15      Welcome and Opening Remarks
- Roddam Narasimha, Director of the National Institute of Advanced Studies*

*Kumar Patel*, Committee on International Security and Arms Control, U.S. National Academy of Sciences

19:15 – 20:15

Official Addresses, Greetings, and Thanks

*Bruce Alberts*, President, U.S. National Academy of Sciences

*V.S. Ramamurthy*, Secretary, Department of Science and Technology

*John P. Holdren*, Chairman, Committee on International Security and Arms Control, U.S. National Academy of Sciences

*His Excellency Shri Kidarnath Sahani*, Governor of Goa

*Robert O. Blake*, Charge d’Affaires, U.S. Embassy, India

*Dr. A.P.J. Abdul Kalam*, The President of India

*S. Rajagopal*, Homi Bhabha Visiting Professor, National Institute of Advanced Studies

National Anthem

20:15

Dinner

## **TUESDAY, JANUARY 13, 2004**

9:30 – 9:45

Recap of Deliberations of the Previous Day  
*Roddam Narasimha*, Director of the National Institute of Advanced Studies

9:45 – 9:50

Announcements  
*Patricia Wrightson*, Committee on International Security and Arms Control, U.S. National Academy of Sciences

### **Session III: Protecting Nuclear-energy Facilities**

Chair: V.S. Ramamurthy

Discussion Moderators: G.R. Srinivasan and Rose Gottemoeller

9:50 – 10:35

Threat to Civil Nuclear-energy Facilities  
*John P. Holdren*

10:35 – 11:20

Threats to Nuclear Facilities: Framing the Problem  
*P. Rama Rao*

- 11:20 – 11:35            Tea Break
- 11:35 – 12:50            Discussion of Protecting Nuclear-energy Facilities
- 12:50 – 14:00            Luncheon Speaker  
*Jonathan Pollack*, Committee on International Security and Arms  
Control, U.S. National Academy of Sciences

**Session IV: Terrorist Threats to Infrastructure and Relevant Science and  
Technology Responses**

Chair: S.E. Goodman

Discussion Moderators: M.K. Narayanan and Richard L. Garwin

- 14:00 – 14:45            Local Realities of Terrorist Threats  
*Julio Ribeiro*
- 14:45 – 15:30            Securing Against Infrastructure Terrorism  
*Lawrence T. Papay*
- 15:30 – 15:45            Tea Break
- 15:45 – 17:00            Discussion of Terrorist Threats to Infrastructure and Relevant  
Science and Technology Responses

**WEDNESDAY, JANUARY 14, 2006**

- 9:30 – 9:45                Recap of Deliberations of the Previous Day  
*Kumar Patel*, Committee on International Security and Arms  
Control, U.S. National Academy of Sciences
- 9:45 – 9:50                Announcements  
*Patricia Wrightson*, Committee on International Security and Arms  
Control, U.S. National Academy of Sciences

**Session V: Biological and Agricultural Terrorism Threats**

Chair: John P. Holdren

Discussion Moderators: S. Gopal and Jonathan Pollack

- 9:50 – 10:35            Twentieth-Century Legacy: The Biological Threats to Twenty-  
first Century Science and Society  
*Christopher J. Davis*
- 10:35 – 11:20            India and Agricultural Bioterrorism  
*Kalyan Banerjee*

- 11:20 – 11:35            Tea Break
- 11:35 – 12:50            Discussion of Biological and Agricultural Terrorism Threats
- 12:50 – 14:00            Luncheon Speaker  
*M.K. Rasgotra*

**Session VI: Indo-U.S. Cooperation**

Chair: Lewis M. Branscomb

Discussion Moderators: T.G.K. Murthy and John P. Holdren

- 14:00 – 14:45            Why Should India and the United States Cooperate?  
*K. Santhanam*
- 14:45 – 15:30            Can Science and Technology Help to Counter Terrorism?  
*Richard L. Garwin*
- 15:30 – 15:45            Tea Break
- 15:45 – 16:15            What Have We Learned?  
*Kumar Patel and Roddam Narasimha*
- 16:15 – 17:30            Discussion of Indo-U.S. Cooperation