## 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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>9:15 – 9:25</td>
<td>Welcome</td>
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<td><em>Roddam Narasimha and Kumar Patel</em></td>
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<td>9:25 – 9:35</td>
<td>Committee on International Security and Arms Control’s Role in Workshop</td>
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<td><em>John P. Holdren</em></td>
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<td>9:35 – 9:45</td>
<td>Background on the Workshop, Objectives</td>
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<td><em>Roddam Narasimha</em></td>
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<td>9:45 – 10:15</td>
<td>Workshop Program and Expectations</td>
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<td><em>Kumar Patel</em></td>
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<td>10:15 – 10:30</td>
<td>Indo-U.S. Science and Technology Cooperation</td>
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<td><em>Y.P. Kumar</em></td>
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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