

## Bhabha Centenary Symposium, Dec 3-5 2009

### Academic Programme\*

<b>Thursday December 3</b>		<b>Friday December 4</b>		<b>Saturday December 5</b>	
<b>09:30-10:00</b>	<b>"Homi J. Bhabha: In Memoriam"</b> (slideshow) and release of books on Homi Bhabha	<b>09:20-10:00</b>	Academy Session: <b>D. Balasubramanian, Ashok Misra, M. Vijayan, Arnold Wolfendale</b>	<b>09:30-10:40</b>	BARC/TIFR session: <b>Srikumar Banerjee, Mustansir Barma</b>
<b>10:00-10:40</b>	Inaugural Session: <b>Anil Kakodkar, C.N.R. Rao</b>	<b>10:00-10:40</b>	<b>R.S. Raghavan</b>		
<b>10:40-11:20</b>	<b>C.N. Yang</b>	<b>10:40-11:20</b>	<b>M.S. Narasimhan</b>	<b>10:40-11:20</b>	<b>Carlo Rubbia</b>
<b>11:20-11:40</b>	<i>Tea</i>	<b>11:20-11:40</b>	<i>Tea</i>	<b>11:20-11:40</b>	<i>Tea</i>
<b>11:40-12:20</b>	<b>M.S. Swaminathan</b>	<b>11:40-12:20</b>	<b>Obaid Siddiqi</b>	<b>11:40-12:20</b>	<b>Sergio Bertolucci</b>
<b>12:20-13:00</b>	<b>Knut Urban</b>	<b>12:20-13:00</b>	<b>Vidita Vaidya</b>	<b>12:20-13:00</b>	<b>Peter Littlewood</b>
<b>13:00-14:00</b>	<i>Lunch</i>	<b>13:00-14:00</b>	<i>Lunch</i>	<b>13:00-14:00</b>	<i>Lunch</i>
<b>14:00-14:40</b>	<b>C.N.R. Rao</b>	<b>14:00-14:40</b>	<b>W. Mark Rainforth</b>	<b>14:00-14:40</b>	<b>G. Madhavan Nair</b>
<b>14:40-15:20</b>	<b>R. Chidambaram</b>	<b>14:40-15:20</b>	<b>Ganapati Rao Myneni</b>	<b>14:40-15:20</b>	<b>Shyam Benegal</b>
<b>15:20-16:00</b>	<b>Claude Guet</b>	<b>15:20-16:00</b>	<b>Vivek Datar</b>	<b>15:20-16:00</b>	<b>Arnold Wolfendale</b>
<b>16:00-16:20</b>	<i>Tea</i>	<b>16:00-16:20</b>	<i>Tea</i>	<b>16:00-16:20</b>	<i>Closing</i>
<b>16:20-17:00</b>	<b>M.G.K. Menon</b>	<b>16:20-17:00</b>	<b>Sunil Sinha</b>	<b>16:20-16:40</b>	<i>Tea</i>
<b>17:00-17:40</b>	<b>Talk on the TIFR Art Collection</b>	<b>17:00-17:40</b>	<b>Shiraz Minwalla</b>		
<b>17:40-18:10</b>	<i>Break</i>	<b>17:40-18:10</b>	<i>Break</i>		
<b>18:10-19:30</b>	<b>Symphony Orchestra of India: Western Classical Music</b>	<b>18:10-19:30</b>	<b>Mallika Sarabhai and troupe: Indian Dance</b>		
<b>19:30-21:00</b>	<i>Banquet, TIFR lawns</i>	<b>19:30-21:00</b>	<i>Banquet, TIFR lawns</i>		

(\* programme subject to change)

## Titles

**Shyam Benegal:** Tradition, Modernity and Post-modernism in Indian Cinema

**Sergio Bertolucci:** The CERN Large Hadron Collider: Status and Outlook

**R. Chidambaram:** Some Challenging Problems in Condensed Matter and Materials Physics

**Vivek Datar:** The Atomic Nucleus – the Stuff of Visible Matter

**Claude Guet:** Basic Science Issues for Sustainable Nuclear Energy

**Peter Littlewood:** A New Condensate of Matter and Light: Bose Einstein Condensation of Polaritons

**M.G.K. Menon:** Turning Points in Homi's Life

**Shiraz Minwalla:** String Theory and the Gauge Gravity Correspondence

**Ganapati Rao Myneni:** Ingot Niobium: Frontier Technology for Nuclear Power

**G. Madhavan Nair:** Recent Advances in Space Sciences

**M.S. Narasimhan:** Mathematics in TIFR

**Ramaswamy S. Raghavan:** Neutrinos Inward Bound -- Frontiers Beyond Particle Physics

**W. Mark Rainforth:** Recent Step Changes in Microscopy – a Revolution in Our Ability to Understand Material Microstructure

**C.N.R. Rao:** Graphene and Beyond

**Carlo Rubbia:** An Undetectable Universe?

**Obaid Siddiqi:** The Beginnings of Biology at TIFR – Dr. Bhabha's Style of Growing Science

**Sunil K. Sinha:** The Use of Coherent X-ray Beams in Studying the Structure and Dynamics of Condensed Matter

**M.S. Swaminathan:** Homi Bhabha and Atoms on the Farm

**Knut Urban:** Feynman's Dream Come True: Studying the Atomic Structure of Materials by Ultra High-Resolution Transmission Electron Microscopy

**Vidita Vaidya:** The Emotional Brain – Imprints of Life History

**Arnold Wolfendale:** Cosmic Rays and Evolution

**C.N. Yang:** From the Vector Potential to Connections on a Fiber Bundle

A talk on the TIFR Art collection will be given by Uma Mahadevan.

## Cultural programmes

**Symphony Orchestra of India:** Works of Mozart, Grieg, Bach, Dvorak, Barber.

**Mallika Sarabhai and troupe:** The Dance of Life (a dance programme inspired by the history of Indian science).