



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL
OUTREACH PROGRAM
(May 7 – 12, 2018)

07/05/18	09:15 – 10:00 am	Registration of Participants
Venue – L3	10:00 – 10:10 am	Welcome address by Director, Prof. Vinod K. Singh
	10:10 – 10:55 am	Speaker: Prof. Kankan Bhattacharya (Department of Chemistry) Talk Title: “ <i>Single Molecule Spectroscopy and Heroes of Indian Science</i> ”
	10:55 – 11:25 am	Speaker: Bhargava Ram Niraghatam (Department of Physics) Talk title: “ <i>Universe in all sizes: Powers of ten</i> ”
	11:25 – 11:55am	Speaker: Dr. Nagarjun Vijay (Department of Biological Sciences) Talk title: “ <i>A brief history of the human species - new insights from genomics</i> ”
	12:00 – 02:30 pm	LUNCH BREAK
	02:30 – 03:00 pm	Speaker: Dr. Arundhuti Ghatak (Department of Earth and Environmental Sciences) Talk Title: “ <i>A Brief History of Earth</i> ”
	03:00 – 03:30 pm	Speaker: Dr. Anandateertha Mangasuli (Department of Mathematics) Talk Title: “ <i>Pythagorean Triples</i> ”
	03:30 – 04:15 pm	Interactive Session with Department of Biological Sciences (Dr. Himanshu Kumar)
	04:15 - 04:30 pm	BREAK
	04:30 – 05:45 pm	Icebreaking Session
	06:00 – 07:30 pm	Outdoor / Indoor games
08/05/18	09:30 – 10:00 am	Speaker: Dr. Abhijit Patra (Department of Chemistry)
Venue – L3		Talk Title: “ <i>It's A Small World</i> ”

10:00 – 10:30 am Speaker: **Dr. Kushal K. Shah** (Department of Electrical Engg. & Computer Science)
Talk Title: “*Can a machine be intelligent?*”

10:30 – 11:00am Speaker: **Dr. Surajit Saha** (Department of Physics)
Talk title: “*An Interaction between Light & Matter: Sir C V Raman and His Discovery*”

11:00 –11:30 am Speaker: **Dr. Ajit Chande** (Department of Biology)
Talk title: “*Why is HIV so successful as a pathogen?*”

11:30 – 12:15 pm Session on “*Foldscopes*”
(Drs. Madhumita Mukherjee and Sarika Singh)

12:00 – 02:30 pm LUNCH BREAK

02:30 – 03:00 pm Speaker: Dr. **Rajakrishnan Rajkumar** (Department of Humanities and Social Sciences)
Talk Title: “*Language and the Brain*”

03:00 – 04:00 pm Interactive session - Solving Language Puzzles
(Dr. Rajakrishnan Rajkumar)

04:00 – 04:30 pm BREAK

04:30 – 05:30 pm Drawing Competition (Venue – L1)

06:00 – 07:30 pm Outdoor / Indoor games

09/05/18 09:30 – 10:00 am Speaker: **Dr. Snigdha Thakur** (Department of Physics)
Venue – L3 Talk Title: “*Physics of Complex Fluids*”

10:00 – 10:30 am Speaker: **Dr. Bharathwaj Sathyamoorthy** (Department of Chemistry)
Talk Title: “*Molecular Players of Life*”

10:30 – 11:00 am Speaker: **Dr. Ridhima Gupta** (Department of Economic Sciences)
Talk Title: “*Learning Economics Through Facts*”

11:00 – 11:45 am Interactive Session with Department of Physics
(Dr. Ravi Shankar Singh)

11:45 – 02:15 pm LUNCH BREAK

02:15 – 03:00 pm Biology Lab Session (Venue: AB-3, Biology Core Lab)

03:00 – 03:45 pm Physics Lab Session (Venue: AB-3, Physics Core Lab)

04:00 – 04:45 pm Chemistry Lab Session (Venue: AB-2, Chemistry Core Lab)

	04:45 – 05:30 pm	Earth and Environmental Sciences Lab Session (Venue – EES link building)
	05:30 – 06:00 pm	BREAK
	06:00 – 07:30 pm	Movie Screening (Venue – L1)
10/05/18	09:30 – 10:00am	Speaker: Dr. Sanjeev Shukla (Department of Biological Sciences) Talk Title: “ <i>Your genes may not be your destiny</i> ”
Venue – L3	10:00 – 10:30 am	Speaker: Dr. Madhumita Mukherjee (Department of Chemistry) Talk Title: “ <i>Chemistry colors our world</i> ”
	10:30 – 11:00 am	Speaker: Dr. Sanjeev Jha (Department of Earth and Environmental Sciences) Talk Title: “ <i>Floods in India</i> ”
	11:00 – 11:45 am	Interactive Session with Department of Mathematics (Drs. Anandateertha Mangasuli and Angshuman Bhattacharya)
	11:45 – 01:30 pm	LUNCH BREAK
	01:30 – 05:30 pm	Visit to Tribal Museum
11/05/18	09:30 – 10:00 am	Speaker: Dr. Nitin T. Patil (Department of Chemistry) Talk Title: “ <i>Organic Molecules – The Good, the Bad and the Ugly</i> ”
Venue-L3	10:00 – 10:30 am	Speaker: Dr. Ritam Malik (Department of Physics) Talk Title: “ <i>Twinkle twinkle little star</i> ”
	10:30 – 11:00 am	Speaker: Dr. Angshuman Bhattacharya (Department of Mathematics) Talk Title: “ <i>Functions, limits and the circle</i> ”
	11:00 – 11:45 am	Interactive session with Department of Chemistry (Prof. Sangit Kumar and Prof. Alakesh Bisai)
	11:45 – 02:00 pm	LUNCH BREAK
	02:15 – 03:00 pm	Visit to CIF
	03:00 – 03:45 pm	Visit to Central Library

03:45 – 04:30 pm Visit to Computer Center
04:30 – 04:50 pm BREAK
05:00 – 06:00 pm Open stage performance by participants (Venue – L1)

12/05/18 09:30 – 10:00am Speaker: **Dr. Jeet Kalia** (Department of Biological Sciences)
Venue – L3 Talk Title: “*Proteins and lipids: The new BFFs in town*”
10:00 – 10:30 am Speaker: **Prof. Saptarshi Mukherjee** (Department
of Chemistry)
Talk Title: “*Career Opportunities in Indian Science*”
11:00 – 12:00 pm Closing remarks, Prize distribution by **Deputy Director** and
group photo in LHC

Co-ordinators for Biology Lab: Drs. Neetu Kalra, Shyam Sunder Reddy, Lavanya Bhagavatula

Co-ordinators for Chemistry Lab: Dr. Sharmila Pandey and Ms. Meena Sharma

Co-ordinator for Physics Lab: Dr. Sarika Singh

Co-ordinator for Earth and Environmental Sciences Lab: Dr. Sabyasachi Chattopadhyay

Co-ordinator for Computer Center visit: Mr. Vinay Bajpai

Co-ordinator for Central Library visit: Dr. Sandeep Pathak

Co-ordinators for Central Instrumentation Facility visit: Mr. Rajbeer Singh, Ms. Dimple Pawar, Mr. Lalit
Mohan Jha, Mr. Manoj Prajapat, Mr. Om Prakash
Patel, Ruchi Srivastava

Co-ordinator for Sports Activities: Dr. Sankar Chakma

Co-ordinator, Center for Outreach Programs in Education: Dr. Madhumita Mukherjee