



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL
ISHAN VIKAS PROGRAM (MAY 21 – 30, 2015)
VENUE - L3, LHC

- 21/05/15
- 9:15 – 9:30 Registration of Participants
 - 9:30 – 10:00 Welcome address by **The Director, IISER Bhopal**
 - 10:00 – 11:00 Talk entitled "*The Scientist's room*"
Speaker: **Dr. Sourav Datta** (Department of Biological Sciences)
 - 11:00 – 12:00 Talk entitled "*An exploration of infinity*"
Speaker: **Dr. Ajit Bhand** (Department of Mathematics)
 - 12:00 – 13:00 Talk entitled "*Wondrous World of Carbon Nanomaterials*"
Speaker: **Dr. Ashish Mishra** (Department of Physics)
 - 13:00 – 14:30 BREAK
 - 14:30 – 15:30 *Workshop on Stress Management*
Ms. Anju Singh (Faculty, Art of Living, Bhopal)
 - 15:30 – 16:30 Talk entitled "*Bioluminescence and the discovery of Green Fluorescent protein*"
Speaker: **Dr. Aasheesh Srivastava** (Department of Chemistry)
 - 16:30 – 16:45 BREAK
 - 16:45 – 18:00 *Computer fundamentals and programming - I*
Mr. Vinay Bajpai (Computer Center)
 - 18:00 – 18:45 Organized tour around the campus
Dr. Manmohan Kapur (Department of Chemistry)
- 22/05/15
- 10:00 – 11:00 Talk entitled "*The story of particle physics*"
Speaker: **Dr. Ambar Jain** (Department of Physics)
 - 11:00 – 12:00 *Workshop on Stress Management - II*
Speaker: **Ms. Anju Singh** (Faculty, Art of Living, Bhopal)
 - 12:00 – 13:00 Video show entitled "*Symmetry*"
Dr. Prahlad Vaidyanathan (Department of Mathematics)
 - 13:00 – 14:30 BREAK
 - 14:30 – 15:30 Video show entitled "*Lessons from the micro-cosmos of a biological cell*"
Dr. Ram Mishra (Department of Biological Sciences)
 - 15:30 – 16:30 Video show entitled "*The Quantum Indians*"
Dr. Saptarshi Mukherjee (Department of Chemistry)
 - 16:30 – 16:45 BREAK
 - 16:45 – 18:00 *Computer fundamentals and programming - II*
Mr. Vinay Bajpai (Computer Center)
- 23/05/15
- 10:00 – 11:00 Talk entitled "It's a small world"

Speaker: **Dr. Abhijit Patra** (Department of Chemistry)
 11:00 – 12:00 Talk entitled "*Effective communication Skills*"
 Speaker: **Dr. Shamina Azhar** (MANIT, Bhopal)
 12:00 – 13:00 Video show on Particle Physics
Dr. Ambar Jain (Department of Physics)
 13:00 – 14:30 BREAK
 14:30 – 15:30 *Workshop on stress management - III*
Ms. Anju Singh (Faculty, Art of Living, Bhopal)
 15:30 – 16:30 Video show entitled "*The birth of the Universe*"
Dr. Arundhuti Ghatak (Department of Earth and Environmental Sciences)
 16:30 – 16:45 BREAK
 16:45 – 18:00 *Computer fundamentals and programming - III*
Mr. Vinay Bajpai

24/05/15 10:00 – 11:00 Talk entitled "*Discoveries in Science*"
 Speaker: **Dr. Deepak Chopra** (Department of Chemistry)
 11:00 – 12:00 Talk entitled "*Personality Development, Soft Skills and Etiquette's for School Students*"
 Speaker: **Dr. Shamina Azhar** (MANIT, Bhopal)
 12:00 – 13:00 Video show entitled "*Microbial Cell Factories*"
 Speaker: **Dr. Lavanya Bhagavatulla** (Department of Biological Sciences)
 13:00 – 14:30 BREAK
 14:30 – 18:00 INDOOR SPORTS

25/05/15 9:30 – 9:45 Welcome address by **The Director, IISER Bhopal**

(A) PRE-LUNCH SESSION

25/05/15 10:00-10:30 Inaugural Lecture: "*Chemicals of Body Function: Brain, Vision, and Muscles*"
 Speaker: **Prof. Sandeep Verma** (IIT Kanpur)
 10:45-11:15 Talk entitled "*The Violent Earth*"
 11:15-11:30 Break
 11:30-11:50 '*Interactive Session*' with **Prof. Faiz A. Khan** (IIT Hyderabad)
 12:00-12:30 Talk entitled "*Role of Biotechnology in Health Care*"
 Speaker: **Dr. Himanshu Kumar** (Dept. of Biological Sciences)

[For laboratory activities students will be divided into three batches (**A, B, and C**)]

Date	Biology Lab (10:00 am -12:30 pm)	Chemistry Lab. (10:00 am -12:30 pm)	Physics Lab. (10:00 am -12:30 pm)	Mathematics (10:00 am -12:30 pm)

26 th May, 2015	Batch-A	Batch-B (12:30 - 01:00 pm: Tour to	Batch-C	-----
27 th May, 2015	Batch-B	Batch-C (11:30 - 12:00 pm: Tour to	-----	Batch-A (Dr.s Prahlad Vaidhyanath and Abhik Ganguli)
28 th May, 2015	Batch-C	-----	Batch-A	Batch-B (Dr.s Kashyap Rajeevsarat and Ajit Bhand)
29 th May, 2015	-----	Batch-A (12:30 - 01:00 pm: Tour to	Batch-B	Batch-C (Dr.s Abhik Ganguli and Romie Banerjee)

[*Lab. timings for all the batches on 27th May: 09:00 am - 11:30 am]

30/05/15	10:00-10:30	Talk entitled: " <i>Careers Opportunities in Indian Science</i> " Speaker: Dr. Saptarshi Mukherjee
	10:45 -11:15	Participation Certificates, Book, and Prize Distribution
	11:15 -11:30	Concluding Remarks by The Director, IISER Bhopal
	11:30 -12:00	Group Photo in LHC

(B) POST-LUNCH SESSION

25/05/15	15:00-16:00	Interactive Session with Dept. of Biological Sciences
	16:00-16:15	Break
	16:15- 18:00	Extempore (Dr.s P. Vaidyanathan and M. Mukherjee)
26/05/15	15:00-16:00	Interactive Session with Dept. of Chemistry
	16:00-16:15	Break
	16:15-16:45	Speaker: Dr. Amit Paul (Dept. of Chemistry) <i>Talk Title: "Chemistry for a Better World"</i>
	16:45- 18:00	Quiz (Dr.s V. Srinivasan and A. Ghatak)
27/05/15:	13:00-18:00	Tour to Regional Science Centre (RSC), Bhopal
28/05/15	15:00-15:30	Talk entitled: " <i>Importance of Stereochemistry in Drug Discovery</i> " Speaker: Dr. Vishnumaya Bisai (Dept. of Chemistry)
	15:30-15:45	Break
	16:00-17:00	Interactive Session with Dept. of Physics
	17:00-18:00	Drawing Competition (Dr.s L. Bhagavatula and S. I. Hasan)
29/05/15	15:00-16:00	Interactive Session with Dept. of Mathematics
	16:00-16:15	Break
	16:15-16:45	Talk entitled: " <i>Components of our Universe</i> " Speaker: Dr. Rajib Saha (Dept. of Physics)
	17:00-18:00	Movie Screening (Dr.s B. Ramakrishna and Sunil P. Singh)

25th - 29th May, 2015: 18:15 - 19:45 Sports Activities (**Dr. Siddhartha Sarkar**)

Faculty In-Charge for **Biology Lab.** (ITI Campus, Govindpura)
(**Dr.s Lavanya Bhagavatula, Prabhat Singh, and Shanker Jha**)

Faculty In-Charge for **Chemistry Lab.** (Main Campus, Bhopal Bypass Road)
(**Dr.s Aasheesh Srivastava, J. Sankar, Apurba L. Koner, and Sangit Kumar**)

Faculty In-Charge for **Physics Lab.** (Main Campus, Bhopal Bypass Road)
(**Dr.s Ravi S. Singh, B. Ramakrishna and Ravi P. Singh**)

Faculty In-Charge, Tour to Central Instrumentation Facility (CIF): **Dr. Manmohan Kapur**