



## INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL

### OUTREACH PROGRAM

(May 15 – 19, 2017)

|                        |   |   |
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| 15/05/17<br>Venue – L3 | 09:15 – 10:00 am  | Registration of Participants  |
|                        | 10:00 – 10:10 am  | Welcome address by Director   |
|                        | 10:10 – 10:55 am  | Speaker: <b>Prof. Sandeep Verma</b> (Department of Chemistry, IIT Kanpur)<br>Talk Title: “ <i>Chemicals in Body Function</i> ”  |
|                        | 10:55 – 11:25 am  | Speaker: <b>Dr. Rajib Saha</b> (Department of Physics)<br>Talk title: “ <i>Planets, Stars and Galaxies: Knowing our neighbors in the Universe</i> ”   |
|                        | 11:25 – 11:55 am  | Speaker: <b>Dr. Abhijit Patra</b> (Department of Chemistry)<br>Talk title: “ <i>Light Meets Matter</i> ”  |
|                        | 12:00 – 02:30 pm  | LUNCH BREAK   |
|                        | 02:30 – 03:30 pm  | Interactive session with Department of Mathematics<br>(Drs. Dheeraj Kulkarni, Atreyee Bhattacharya and Ajit Bhand)  |
|                        | 03:30 – 04:00 pm  | Speaker: <b>Dr. Sandip Agarwal</b> (Department of Humanities and Social Sciences)<br>Talk Title: “ <i>Perspectives on Decision-making</i> ”   |
|                        | 04:00 – 04:20 pm  | BREAK   |
|                        | 04:20 – 05:05 pm  | Interactive session with Department of Biology<br>(Drs. Neetu Kalra and Shyam Sunder Reddy)   |
| 05:05 – 05:35 pm       | Speaker: <b>Dr. Kumar Gaurav</b> (Department of Earth and Environmental Sciences)<br>Talk Title: “ <i>India's river of sorrow</i> ” |   |
| 06:00 – 07:30 pm       | Outdoor / Indoor games  |   |
| 16/05/17<br>Venue – L3 | 09:30 – 10:20 am  | Speaker: <b>Dr. Atreyee Bhattacharya</b> (Department of Mathematics)<br>Talk Title: “ <i>Exploring geometry beyond Euclid</i> ”   |
|                        | 10:20 – 10:50 am  | Speaker: <b>Dr. Dhanyalekshmi Pillai</b> (Department of Earth and Environmental Sciences)<br>Talk Title: “ <i>Tracing the future with satellite observations - greenhouse gas perspective</i> ” |
|                        | 10:50 – 11:20 am  | Speaker: <b>Dr. Tanima Hajra</b> (Department of Chemistry)<br>Talk title: “ <i>Heroes of Chemistry</i> ”  |
|                        | 11:20 – 11:50 am  | Speaker: <b>Dr. Pawan Arora</b> (Department of Electrical Engg. and Computer Science)<br>Talk title: “ <i>Hardware vs software</i> ”  |
|                        | 12:00 – 02:30 pm  | LUNCH BREAK   |
|                        | 02:30 – 03:30 pm  | Batch I – Biology Lab   |
|                        | 03:30 – 04:30 pm  | Batch II – Computer Center Lab  |
|                        | 04:30 – 04:50 pm  | Batch II – Biology Lab  |
|                        | Batch I – Computer Center Lab   |   |
|                        | BREAK   |   |

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|            | 04:50 – 05:50 pm | Drawing Competition  |
|            | 06:00 – 07:30 pm | Outdoor / Indoor games   |
| 17/05/16   | 09:30 – 10:10 am | Speaker: <b>Dr. Himanshu Kumar</b> (Department of Biological Sciences)<br>Talk Title: “ <i>Role of Biotechnology in Healthcare</i> ”                                     |
| Venue – L3 | 10:10 – 10:40 am | Speaker: <b>Dr. Madhumita Mukherjee</b> (Department of Chemistry)<br>Talk Title: “ <i>Chemistry Colors our World</i> ”   |
|            | 10:40 – 11:30 am | Speaker: <b>Dr. Ajit Bhand</b> (Department of Mathematics)<br>Talk Title: “ <i>The mysterious world of prime numbers</i> ”   |
|            | 11:30 – 12:15 pm | Interactive session with Department of Physics<br>(Drs. Bhargava Ram and Nirmal Ganguli)   |
|            | 12:15 – 02:30 pm | LUNCH BREAK  |
|            | 02:30 – 03:30 pm | Batch I – Physics Lab  |
|            |                  | Batch II – Chemistry Lab   |
|            | 03:30 – 04:30 pm | Batch II – Physics Lab   |
|            |                  | Batch I – Chemistry  |
|            | 04:30 – 04:50 pm | BREAK  |
|            | 04:50 – 05:50 pm | Visit to Central Instrumentation Facility  |
|            | 05:50 – 07:30 pm | Movie Screening  |
| 18/05/16   | 09:30 – 10:00 am | Speaker: <b>Dr. Varun Chaudhary</b> (Department of Biological Sciences)<br>Talk Title: “ <i>Model Organisms in Biomedical Research: Little Animals Make Big Impact</i> ” |
| Venue – L3 | 10:00 – 10:30 am | Speaker: <b>Dr. Bharathwaj Sathyamoorthy</b> (Department of Chemistry)<br>Talk Title: “ <i>Molecular Players of Life</i> ”   |
|            | 10:30 – 11:00 am | Speaker: <b>Dr. Pankaj Kumar</b> (Department of Earth and Environmental Sciences)<br>Talk Title: “ <i>El Niño-Indian monsoon Teleconnections</i> ”                       |
|            | 11:00 – 11:45 am | Interactive session with Department of Chemistry<br>(Drs. Alakesh Bisai, Amit Paul, Sangit Kumar)  |
|            | 11:45 – 01:30 pm | LUNCH BREAK  |
|            | 01:30 – 05:30 pm | Visit to Regional Science Center   |
| 19/05/16   | 09:30 – 10:00 am | Speaker: <b>Dr. Saptarshi Mukherjee</b><br>Talk Title: “ <i>Career Opportunities in Indian Science</i> ”   |
| Venue – L3 | 10:00 – 10:30 am | Speaker: <b>Dr. Joyanta Choudhury</b><br>Talk Title: “ <i>What to ‘burn’ in the next century</i> ”   |
|            | 10:30 – 11:15 am | Speaker: <b>Prof. Jiten Bera</b> (Department of Chemistry, IIT Kanpur)<br>Talk Title: “ <i>From burning candle to smartphone: Chemistry around us</i> ”                  |
|            | 11:15 – 12:30 am | Closing remarks, Prize distribution and group photo in LHC   |

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In-Charges for Biology Lab: Drs. Neetu Kalra, Shyam Sunder Reddy

In-Charges for Chemistry Lab: Drs. Sharmila Pandey and Tanim Hajra

In-Charge for Physics Lab: Dr. Sarika Singh

In-Charge for Computer Center Lab: Mr. Vinay Bajpai

In-Charge for Sports Activities: Dr. Sankar Chakma

Tour to Central Instrumentation Facility (CIF): Dr. Manmohan Kapur

Program Co-ordinator: Dr. Madhumita Mukherjee