

**Monday, 08 January 2018****16:00 - 18:00****Registration, Student Posters and Reception****Tuesday, 09 January 2018****08:30 - 09:00****Registration****09:00 - 10:00****Inaugural Session***Venue: Homi Bhabha Auditorium*

09:00 - 10:00

Inauguration and address by chief guest

**10:00 - 10:30****High Tea****10:30 - 12:30****Technical Session I***Venue: Homi Bhabha Auditorium*

10:30 - 11:00

Accelerator activities at RRCAT, *P A Naik*

11:00 - 11:30

Accelerator Activities at BARC, *P. V. Bhagwat*

11:30 - 12:00

Report on the accelerators of VECC, *A. Roy*

12:00 - 12:30

Ion accelerator and related activities at IUAC Delhi, *S. Chopra***12:30 - 14:00****Lunch****14:00 - 16:00****Technical Session II  
(3 parallel sessions)****Parallel Session II-1  
(Accelerator Technology-I)**  
*Venue: Homi Bhabha Auditorium*

14:00 - 14:15

Tuning Algorithm for the LEHIPA DTL, *Aman Bajaj*

14:15 - 14:30

A test facility for production and characterization of 60 A, 100 keV beam produced from a single, large RF ion source, *M.J. Singh*

14:30 - 14:45

Helium Processing of Niobium Quarter Wave Resonators, *A. Rai*

14:45 - 15:00

Indigenous development of first five-cell 650 MHz SCRF cavity and series manufacturing plans, *A Puntambekar*

15:00 - 16:00

**Oral Poster presentations - I****Parallel Session II-2  
(Magnets and Power Converters)**  
*Venue: Vikram Sarabhai Hall*

14:00 - 14:15

Power Converters for Transfer Line Magnets of New Injector Linac in Indus Accelerator Complex, *Alok Singh*

14:15 - 14:30

Design, development and testing of a 4 Tesla, large room temperature bore, liquid helium cooled superconducting solenoid magnet for MHD studies, *S.SundarRajan*

14:30 - 14:45

Development of magnets for beam diagnostic line of ARPF Linac, *S. Das*

14:45 - 15:00

Magnetic field mapping and correction of first harmonic imperfection in the central region of K500 superconducting cyclotron, *U Bhunia*

15:00 - 16:00

**Oral Poster presentations - II****Parallel Session II-3  
(Beam Dynamics)**  
*Venue: Homi Sethna Hall*

14:00 - 14:15

Beam Injection Studies for FODO lattice of 1 GeV proton Accumulator Ring, *Amalendu Sharma*

14:15 - 14:30

Beam Dynamics of 200 MeV Linac for MEHIPA, *Shweta Roy*

14:30 - 14:45

Understanding the edge focusing in dipole magnets, *Vinit Kumar*

14:45 - 15:00

Experimental and Theoretical Studies of Beam Transmission in a DC Electron Accelerator, *B.Nayak*

15:00 - 16:00

**Oral Poster presentations- III****16:00 - 18:00****Tea and Poster Session - I***Venue: Poster Gallery***18:30****Cultural Program  
(Instrumental Music)***Venue: Homi Bhabha Auditorium***20:00****Dinner**

## Wednesday, 10 January 2018

<b>09:00 - 10:30</b>	<b>Technical Session III</b> <i>Venue: Homi Bhabha Auditorium</i>
09:00 - 09:30	Current status and future directions of bright x-ray sources, <i>K.-J. Kim</i>
09:30 - 09:50	The infra-red FEL at RRCAT - Development, Status and Future Plans, <i>K. K. Pant</i>
09:50 - 10:10	Status of Delhi Light Source, <i>S. Ghosh</i>
10:10 - 10:30	Beam dynamical considerations for high brilliance synchrotron radiation source (HBSRS), <i>A. Ghodke</i>
10:30 - 11:00	<b>Tea Break</b>
<b>11:00 - 12:30</b>	<b>Technical Session IV</b> <i>Venue: Homi Bhabha Auditorium</i>
11:00 - 11:30	Upgradation of RF Technology in Indus-2 Synchrotron, <i>M. Lad</i>
11:30 - 11:50	Upgradation of beam diagnostics system of Indus-2 synchrotron radiation source, <i>T. Puntambekar</i>
11:50 - 12:10	Development, testing and performance of High Power Radio Frequency system during Radio Frequency Quadrupole Accelerator operation of LEHIPA, <i>M. Pande</i>
12:10 - 12:30	Installation & Commissioning up to LINAC-3 and beam test for VECC RIB Facility, <i>A. Bandyopadhyay</i>
12:30 - 14:00	<b>Lunch</b>
<b>14:00 - 1600</b>	<b>Technical Session V</b> <b>(3 parallel sessions)</b>
<b>Parallel Session V-1</b> <b>(Accelerator Technology-II)</b> <i>Venue: Homi Bhabha Auditorium</i>	
14:00 - 14:15	Beam tests of VECC's Injector Cryo Module (ICM) at TRIUMF Canada, <i>Vaishali Naik</i>
14:15 - 14:30	Design and Development of 650 MHz Cryomodule and Horizontal Test Stand at RRCAT, <i>P. Khare</i>
14:30 - 14:45	Indigenisation of niobium for superconducting accelerator applications, <i>K. V. Mirji</i>
14:45 - 15:00	Heat exchanger design evaluation and concept development for 2 K refrigeration system, <i>Rishi Kant Sharma</i>
15:00 - 16:00	<b>Oral Poster presentations - IV</b>
<b>Parallel Session V-2</b> <b>(Beam Diagnostics, Instrumentation and Control)</b> <i>Venue: Vikram Sarabhai Hall</i>	
14:00 - 14:15	Development of Spiral Buncher and Diagnostic Systems for the High Current Injector at IUAC, <i>R Mehta</i>
14:15 - 14:30	Development of emittance monitor and measurement of emittance of electron gun for industrial linac, <i>A. K. Karnewar</i>
14:30 - 14:45	Enhancements in Indus-2 Magnet Power Supply Control System, <i>Amit Chauhan</i>
14:45 - 15:00	Slow Orbit Feed Back System of Indus-2 with Predictive Control Concepts, <i>Rahul Rana</i>
15:00 - 16:00	<b>Oral Poster presentations - V</b>
<b>Parallel Session V-3</b> <b>(RF and Microwave technology)</b> <i>Venue: Homi Sethna Hall</i>	
14:00 - 14:15	Challenges in Operation of Low Level RF System of Indus-2 Synchrotron Radiation Source, <i>Nitesh Tiwari</i>
14:15 - 14:30	A compact 2.45 GHz microwave ion source and associated Wien filter based analyzing system for low energy ion beam facility, <i>Narender Kumar</i>
14:30 - 14:45	RF Protection Interlock System for Proton Linacs under Indian Institutions and Fermilab Collaboration, <i>Sujo C.I.</i>
14:45 - 15:00	Indigenous development of tuning machine for five-cell 650 MHz SCRF cavity, <i>N. K. Sharma</i>
15:00 - 16:00	<b>Oral Poster presentations - VI</b>
<b>16:00 - 18:00</b>	<b>Tea and Poster Session – II</b> <i>Venue: Poster Gallery</i>
<b>18:30</b>	<b>Cultural Program</b> <b>(classical dance)</b> <i>Venue: Homi Bhabha Auditorium</i>
<b>20:30</b>	<b>Dinner</b>

## Thursday, 11 January 2018

<b>09:00 - 10:30</b>	<b>Technical Session VI</b> <i>Venue: Homi Bhabha Auditorium</i>
09:00 - 09:30	Status of LEHIPA, <i>S. Krishnagopal</i>
09:30 - 10:00	Status of R&D Activities for Indian Spallation Neutron Source, <i>S. C. Joshi</i>

10:00 - 10:30	Status of the High Current Injector Project at IUAC, <i>B. P. Ajithkumar</i>
<b>10:30 - 11:00</b>	<b>Tea Break</b>
<b>11:00 - 12:30</b>	<b>Technical Session VII</b> <i>Venue: Homi Bhabha Auditorium</i>
11:00 - 11:30	Indus Upgrade Activities, <i>A. C. Thakurta</i>
11:30 - 11:50	Performance of 6 MeV RF Electron linac for x-ray radiography applications, <i>K. P. Dixit</i>
11:50 - 12:10	Design and commissioning of high power solid state RF amplifier for Indus-2 RF system, <i>Akhilesh Jain</i>
12:10 - 12:30	Indigenous development of high power circulator for accelerators at RRCAT, <i>R. S. Shinde</i>
12:30 - 14:00	<b>Lunch</b>
<b>14:00 - 15:00</b>	<b>Industrial Presentations</b>
<b>15:00 - 16:00</b>	<b>Thesis Presentations</b> <i>Venue: Homi Bhabha Auditorium</i>
15:00 - 15:10	Theoretical Studies on Electron Beam Based Compact Terahertz Source, <i>Yashvir Kalkal</i>
15:10 - 15:20	Studies on generation and characterization of high current beams from microwave ion source, <i>Anuraag Misra</i>
15:20 - 15:30	A Novel Scheme for DSP based Power Converter Control, <i>Anirban De</i>
15:30 - 15:40	Design and Development of Bunch Length Detector for Particle Accelerator and Radiation Hardened Clock Unit for Frontend Electronics, <i>Hemendra Kumar Pandey</i>
15:40 - 15:50	Study of beam injection, beam optics and insertion devices for synchrotron radiation source: a case study of Indus-1 and Indus-2, <i>Ali Akabar Fakhri</i>
15:50 - 16:00	Study of Inverse Free Electron Laser, <i>Roma Khullar</i>
<b>16:00 - 18:00</b>	<b>Tea and Poster Session - III</b> <i>Venue: Poster Gallery</i>
<b>19:30</b>	<b>Conference Banquet</b>

### Friday, 12 January 2018

<b>09:00 - 10:30</b>	<b>Technical Session VIII</b> <i>Venue: Homi Bhabha Auditorium</i>
09:00 - 09:30	Status of LEHIPA, <i>S. Krishnagopal</i>
09:30 - 10:00	Design and Development of RF Technology for Accelerators at VECC, <i>S. Som</i>
10:00 - 10:30	Superconducting materials for SCRF cavities and future directions, <i>S. B. Roy</i>
10:30 - 11:00	<b>Tea Break</b>
<b>11:00 - 12:20</b>	<b>Technical Session IX</b> <i>Venue: Homi Bhabha Auditorium</i>
11:00 - 11:20	Development of Agricultural Radiation Processing Facility and its Linacs, <i>J. Dwivedi</i>
11:20 - 11:40	CERN Collaboration activities, <i>P. Shrivastava</i>
11:40 - 12:00	ITER Beams – Technology and R&D – the Indian Perspective, <i>A.K.Chakraborty</i>
12:00 - 12:20	Progress on Accelerator Physics Studies for ISNS, <i>Vinit Kumar</i>
12:30 - 14:00	<b>Lunch</b>
<b>14:00 - 15:00</b>	<b>Technical Session X</b> <b>(3 parallel sessions)</b>
	<b>Parallel Session X-1</b> (Accelerator Technology-III) <i>Venue: Homi Bhabha Auditorium</i>
14:00 - 14:15	Upgradation of vacuum system of Indus-2 synchrotron radiation source, <i>D. P. Yadav</i>
14:15 - 14:30	Installation and Commissioning of Indigenously Developed RF Cavity in Indus-2, <i>Ramesh Kumar</i>
14:30 - 14:45	Progress of HB650 Cavities for PIP-II Project at Fermilab, <i>Vikas K. Jain</i>
14:45 - 15:00	Processing and Testing of First Single-Cell 650 MHz (Beta=0.92) Superconducting RF Cavity, <i>S. Raghavendra</i>
	<b>Parallel Session X-2</b> (Ion sources and Beam Testing) <i>Venue: Vikram Sarabhai Hall</i>
14:00 - 14:15	Beam Acceleration Tests on 48.5 MHz Radio Frequency Quadrupole at IUAC, <i>Sugam Kumar</i>
14:15 - 14:30	Proton and Ion Acceleration in microns: Alternative approach using Intense, ultra-short lasers, <i>S. Bagchi</i>
14:30 - 14:45	Development of a prototype external RF antenna based H- Ion Source for Proton Linac, <i>Dharmraj V. Ghodke</i>
14:45 - 15:00	Design & Development of plasma diagnostics for continuous and pulsed mode of ECR plasma, <i>H.Kewlani</i>
	<b>Parallel Session X-3</b> (Radiological Safety and Applications) <i>Venue: Homi Sethna Hall</i>

14:00 - 14:15	Radiological experiences during the commissioning and operation of Indus-2 synchrotron radiation source, <i>Haridas.G</i>
14:15 - 14:30	Status Report of 3MV Pelletron Accelerator at Institute of Physics, Bhubaneswar, <i>Satyaprakash Sahoo</i>
14:30 - 14:45	Status of Linac Based Radio Isotope Generation, <i>Abhay Deshpande</i>
14:45 - 15:00	Low energy rare ion beam set up for surface science and nuclear spectroscopy studies at RIB-VECC Kolkata, <i>P. Karmakar</i>
<b>15:00 - 15:30</b>	<b>Concluding Session</b> <i>Venue: Homi Bhabha Auditorium</i>
15:00 - 15:30	Concluding, Feedback and Prize distribution
15:30 - 16:00	Tea Break
16:00 - 17:00	<b>ISPA Meeting</b>