

Program Schedule

INDIAN CRYOGENICS COUNCIL (1975-2025)

GOLDEN JUBILEE YEAR CONFERENCE

13th-14th November 2025,
Variable Energy Cyclotron Centre, Kolkata

PROGRAMME

VENUE: Meghnad Saha Auditorium, SINP

DAY-1 (13-11-2025) [Thursday]

08:45 -9:45 Registration at the venue

09:45– 11:10 **INAUGURAL SESSION**

High TEA BREAK (Tea will be served Outside of Meghnad Saha Auditorium)

TECHNICAL SESSION-1:

Session Chair: Dr. R K Bhandari & Prof. Y C Saxena

11:45 – 12:15 Cryogenic Education & Research Perspective in India (**Prof. Sunil Sarangi**)

12:15 – 12:45 Fascination for Superconductivity Never Diminished (**Dr. R G Sharma**)

12:45– 13:15 Development of Cryocoolers at IIT Bombay (**Prof. M D Atrey**)

LUNCH BREAK (13:15- 14:30) (VECC Lounge)

TECHNICAL SESSION-2:

Session Chair: Dr. Sumit Som & Dr. Narayan Appu

14:45 – 15:15 Cryogenics and Superconductivity in Fusion Program (**Prof. Y C Saxena**)

15:15 – 15:45 Cryogenics and Superconductivity for the Particle Accelerator Program in India : Past, Present and Future Trend (**Dr. T S Datta**)

15:45– 16:15 Cryogenics Developments for Accelerator Facilities: Superconducting Cyclotron and RIB e-LINAC at VECC, Kolkata (**Dr. Sandip Pal**)

TEA BREAK(16:15-16:45)

SPECIAL SESSION ON PROF. BOSE AND ICC (1975- 2025): (16:45- 17:45)

Session Chair: Dr. R G Sharma

Welcome to Daughters of Prof. Bose

Fifty Years of Indian Cryogenic Council (ICC) (**Dr. R G Sharma**)

Prof. Malini Bhattacharya

Prof. Ketaki Bhattacharya

Prof. Narayan Khedkar (Ex. President)

Dr. Amit Roy (Ex. President)

Dr. R K Bhandari (Ex. President)

Dr. T S Datta (Ex. President)

Prof. M D Atrey (Ex. President)

Dr Jayanta Sthanapati (Former Director, National Council of Science Museums, Student of Prof. A Bose)

Dr. S C Sarkar

17:45 – 18:45 **TOUR OF VECC FACILITY**

Banquet Dinner at : 19:15 onwards

DAY-2 (14-11-2025) [Friday]

TECHNICAL SESSION-3:

Session Chair: Prof. R Singh & Dr. Subimal saha

09:30 – 10:00 Industrial contribution towards growth of cryogenics in India during 1975-2025 (**Mr. P Kulkarni**)

10:00 – 10:30 ITER program and Indian Contribution (**Dr. Nitin Shah**)

10:30 – 11:00 Helium Liquefaction/Refrigeration Technology Development at BARC: Current Status and Future Directions (**Dr. Mukesh Goyel**)

TEA BREAK(11:00-11:30)

TECHNICAL SESSION-4: INDUSTRY

Session Chair: Dr. Tushar Bhowmick & Dr. D. S Nadig

11:30 – 11:50 Preferred Partner For Mission Critical Cryo-scientific Solutions (**Mr. Parag Kulkarni/ Vijay Gehani**)

11:50 – 12:10 Collaborating on Different Applications (**Mr. Marco Muehlegger, Linde Kryotechnik**)

12:10 – 12:20 Apollo's Journey in Cryogenics (**Shri Dipesh Patil, Apollo Heat Exchanger**)

12:20 – 12:30 Liquid Helium Systems – Design and Engineering (**Mr. Shankar Ghosh, Shell & Tube**)

12:30 – 12:40 Applications of Vacuum Technology in Cryogenics (**Mr. Kalyan Vijayarao, Pfeffier Vacuum India Pvt. Ltd.**)

12:40 – 13:10 Emerging LNG Technologies in the Indian Context (**Mr. Saurin Patel, IPR**)

LUNCH BREAK (13:15- 14:30) (VECC Lounge)

TECHNICAL SESSION- 5

Session Chair: Dr. K G Narayankhedkar & Dr. Arup Kumar Raychaudhuri

14:45 – 15:15 Development of 1.5T Whole-Body Indian MRI Magnet System (**Dr. Soumen Kar**)

15:15 – 15:45 Extraction of medical grade oxygen from Stirling PSA based liquid nitrogen plant (**Dr K V Srinivasan**)

15:45 – 16:15 Glimpses of HTS Magnet for SMES and MRI Applications (**Prof. Abhay Singh Gour**)

TEA BREAK(16:15-16:45)

TECHNICAL SESSION-6

Session Chair: Dr. Amit Roy

16:45– 17:15 Development of Dilution Refrigerators (**Dr. J Pradhan**)

17:15 Onwards Concluding Remarks and Discussion