

**Session – I** 22 Oct | Day-01

Prof. A K Mohanty  
(Chairman) AEC

11:00–11:30

Prof. Anil Kakodkar (DAE)

Pursuing Scientific Research in A Mission Mode  
Organisation

11:30–12:00

Prof. K Vijayaraghavan (NCBS)

Shaping Life Sciences for the Future

12:00–12:30

Prof. Ashoke Sen (ICTS)

Gravitational Wave Tails from Soft Theorem

12:30–14:00

Lunch Break

**Session – II** 22 Oct | Day-01

Shri Vivek Bhasin  
(Director) BARC

14:00–14:30

Prof. J P Mittal (BARC)

Agony and Ecstasy of Radiation Research

14:30–15:00

Prof. Mahan Mj (TIFR)

Random Hyperbolic Geometry

15:00–15:30

Prof. Sudeep Gupta (TMC)

Delivering Affordable Cancer Care with High  
Quality and at Scale in India

15:30–16:00

Tea/Coffee Break

**Session – III** 22 Oct | Day-01

Prof. V Ravindran  
(Director) IMSc

16:00–16:30

Prof. Bedangadas Mohanty (NISER)

Recreating microsecond old universe conditions in  
the laboratory science and societal benefits.

16:30–17:00

Prof. Jayaram N Chengalur (TIFR)

Probing galaxies and the Cosmos with the Giant  
Metrowave Radio Telescope

**Session – IV** 22 Oct | Day-01

Prof. Hirendra Nath Ghosh  
(Director) NISER

17:15–18:00

Shri K N Vyas (DAE)

Global Warming and Relevance of Atomic Energy

19:00–21:30

BANQUET DINNER

[Transportation to Banquet Place]

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**Session – V** 23 Oct | Day-02

Prof. U Kamachi Mudali  
(VC) HBNI

09:30–10:00

Shri K N Vyas (DAE)

A Perspective on DAE's Many Strengths and A Few Weaknesses

10:00–10:30

Prof. Pankaj Chaturvedi (ACTREC, TMC)

Simple Solution for Complex Problems in Cancer – Tata Memorial Centre experience

10:30–11:00

Tea/Coffee Break

**Session – VI** 23 Oct | Day-02

Prof. V Chandrasekhar  
TIFR–Hyd

11:00–11:30

Prof. A K Tyagi (BARC/HBNI)

Development of materials, processes and products for nuclear sector: Role of basic sciences

11:30–12:00

Prof. M Krishnamurthy (TIFR–H)

Relativistic electron acceleration with mJ lasers at Multi kHz repetition rates

12:00–12:30

Prof. Vidita Vaidya (TIFR)

Imprints of Early Adversity – how the brain and body keeps score

12:30–14:00

Lunch Break

**Session – VII** 23 Oct | Day-02

Prof. Gautam Bhattacharyya  
(Director) SINP

14:00–14:30

Prof. Aditi Sen De (HRI)

Recent developments in quantum technologies

14:30–15:00

Prof. Aradhana Shrivastava (BARC)

Recent Advances in Nuclear Physics Research

15:00–15:30

Prof. S M Yusuf (BARC)

Spin Entanglement and Quantum Technology

15:30–16:00

Tea/Coffee Break

**Session – VIII** 23 Oct | Day-02

Shri K Mahapatra  
(Director) DCSEM

*This session (16:00-17:00) will be held in LH-5, Library Annex.*

16:00–16:30

Dr. Komal Kapoor (NFC)

Gearing up for supply of fuel and core materials for Nuclear Power Program for the next two decades

16:30–17:00

Dr. Venkatesh Raman (IMSc)

Space Efficient Suffix Trees

17:00–18:30

POSTER/EXHIBITS

18:30–19:30

CULTURAL PROGRAMME:

Odissi Dance performance by Dr. Ileana Citaristi and her group

19:30–21:00

Dinner

**Session – IX** 24 Oct | Day–03

Shri Pradip Mukherjee  
(Chief Executive) BRIT

09:30–10:00

Prof. Shashank Chaturvedi (IPR)

Science–Based Development of Plasma & Fusion  
Technologies

10:00–10:30

Dr. Dheeraj Pande (AMD)

Science of Mineral Exploration and Mining

10:30–11:00

Tea/Coffee Break

**Session – X** 24 Oct | Day–03

Dr. Unmesh D Malshe  
(Director) RRCAT

11:00–11:30

Dr. Satya Ram Mishra (RRCAT)

Development of quantum technologies using cold  
atoms

11:30–12:00

Prof. Tapas Ganguly (RRCAT)

Science with Synchrotron facility

12:00–12:30

Prof. Vandana Nanal (TIFR)

Why do we need to worry about Gender inequality  
in Science?

12:30–14:00

Lunch Break

14:00–19:00

Excursion

19:00–21:00

Dinner

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**Session – XI** 25 Oct | Day-04

Dr. C G Karhadkar

(Director) IGCAR

09:30–10:00

Prof. B Venkatraman (IGCAR)

Nuclear Power and Fast Reactor Program

10:00–10:30

Dr. V Rajesh (NPCIL)

Nuclear Power: Present and Future

10:30–11:00

Tea/Coffee Break

**Session – XII** 25 Oct | Day-04

Prof. K K Nanda

(Director) IoP

11:00–11:20

Dr. Sanjib Kumar Agarwalla (IOP)

Neutrino Tomography of Earth

11:20–11:40

Dr. Tapan Mishra (NISER)

Signatures of non-trivial doublon formation using a quantum computer

11:40–12:00

Dr. Akashrup Banerjee (SINP)

First results with India's Nuclear Astrophysics Accelerator: FRENA

12:00–12:20

Prof. C Gunanathan (NISER)

Sustainable Catalysis Enabled by Metal-Ligand Cooperation

12:20–14:00

Lunch Break

**Session – XIII** 25 Oct | Day-04

Prof. Kalobaran Maity

TIFR

14:00–14:30

Dr. Sangram Bagh (SINP)

Genetically Engineered Bacteria Identify Prime Numbers, Vowels and Answer Math Questions

14:30–15:00

Dr. Vaishali Naik (VECC)

Radioactive Ion Beams – covering the spectrum from Cosmos to Hadron Therapy

15:00–15:30

Tea/Coffee Break

**Session – XIV** 25 Oct | Day-04

Prof. Shreepad Karmalkar

(Director) IIT-BBS

15:30–16:00

Dr. B R Mishra (IREL)

Rare Earths: Critical Material for Energy Transition

16:00–16:20

Dr. Nafees Ahmed V (BARC)

Development of Hydrogen Technologies in BARC

16:20–16:40

Smt. Manisha Rathee (HWB)

Heavy Water Technologies and Diversified Activities

16:40–18:00

POSTER/EXHIBITS

18:00–19:00

CULTURAL PROGRAMME

19:00–21:00

Dinner

**Session – XV** 26 Oct | Day–05

Prof. Ashok Ganguli  
(Director) IISER Berhampur

09:30–10:00

Prof. R Chidambaram (DAE)

DAE Centric Keynote

10:00–10:30

Dr. A K Nayak (NCPW)

Atomic Energy and way forward

10:30–11:00

Tea/Coffee Break

**Session – XVI** 26 Oct | Day–05

Prof. Dileep Jatkar  
(Director) HRI

11:00–11:20

Dr. Manjusha Dixit (NISER)

EEF1A2 Drives Dual- Mode Angiogenesis in  
Breast Cancer in Normoxia and via a HIF1A-  
Driven Feedback Loop in Hypoxia

11:20–11:40

Dr. Sandip Dhara (IGCAR)

Radiation Damage Studies at Materials Science  
Group

11:40–12:00

Prof. Jacinta S D'Souza (CEBS)

A-Kinase anchoring Protein scaffolds: changing  
partners for different roles

12:00–12:20

Dr. Manas Ranjan Sahoo (NISER)

On a Complex Sequence of Vanishing Moments

12:20–14:00

Lunch Break

14:00–15:30

POSTER/EXHIBITS

15:30–16:00

CLOSING SESSION

Presentation on next conclave

// Dignitaries //

Dr. Palok Aich [ NISER ]

Host of next DAE Conclave

Dr. R Chidambaram [ DAE ]

Dr. Hirendra Nath Ghosh [ NISER ]

Dr. Bedangadas Mohanty [ NISER ]