



'India Secure @75'
93rd Annual Session of National Academy of Sciences (NASI)
An endeavour to celebrate and support 'Atma Nirbhar Bharat'



being jointly organized by
The National Academy of Sciences, India (NASI)
 &
Bhabha Atomic Research Centre (BARC)

on

3-5 December, 2023

at

DAE Convention Centre, Anushaktinagar, Mumbai

--- *Tentative Programme* ---

Day 1: December 3, 2023

Inaugural Session (9:30 am – 11:00 am) to begin with the Lighting of Lamp

➡ Welcome (5 min)	Dr. S. M. Yusuf, Convener, 93rd A. S. NASI Director, Physics Group, Bhabha Atomic Research Centre, Trombay smyusuf1@yahoo.com
➡ About NASI (10 min)	Prof. Manju Sharma Past President, NASI; Former Secretary to the Govt. of India, New Delhi manjuvps@gmail.com
➡ Genesis of Symposium (5 min)	Prof. Jayesh R. Bellare General Secretary (OS), NASI; Department of Chemical Engineering, IIT Mumbai jb@iitb.ac.in
➡ Address by the Director, BARC (10 min)	Shri Vivek Bhasin Director, BARC, Mumbai director@barc.gov.in
➡ Secretary, DoS	Shri S. Somanath Chairman, ISRO
➡ Address by the Secretary, DAE (15 min)	Dr. Ajit Kumar Mohanty Secretary, Department of Atomic Energy; Chairman, AEC, Govt. of India chairman@dae.gov.in
➡ Inaugural Address by the Chief Guest (20 min)	Dr. R. Chidambaram Chairman, School for Advanced Studies in Nuclear Science & Technology, BARC; Former PSA to Govt. of India & Former Chairman, AEC rc@barc.gov.in
➡ Presidential Address (10 min)	Prof. Balram Bhargava President, NASI; Former Secretary to the Govt. of India; Chief Cardiothoracic Centre, AIIMS, New Delhi balrambhargava@yahoo.com
➡ (5 min)	Felicitation of the Dignitaries on the dais
➡ Vote of thanks (02 min)	Dr. Niraj Kumar Executive Secretary, NASI nasi.allahabad1@gmail.com

National Anthem; Tea Break (11:00 - 11:30 am)

Session-1: Agriculture & Food Security@75

(11:30 am-12:30 pm)

➤ Chairman	Prof. Manju Sharma Former Secretary, DBT, Govt. of India
➤ Co-Chair	Prof. Akhilesh K. Tyagi Dept. of Plant Molecular Biology, University of Delhi, South Campus; Former Director, NIPGR, New Delhi; Past President, NASI akhilesh@genomeindia.org
➤ Speaker -1 (20 min)	Dr. T. Mohapatra Former DG, ICAR; Secretary, DARE, Govt. of India, New Delhi chairperson-ppvfra@nic.in Title: India's Food and Nutrition Security: Current Status and Future Strategies
➤ Speaker-2 (20 min)	Dr. Ashish Srivastava Nuclear Agriculture & Biotech Division, BARC, Mumbai Title:
➤ Speaker-3 (20 min)	Dr. Himanshu Pathak Secretary, Department of Agriculture Research and Education (DARE); Director General, ICAR, Govt. of India email: dg.icar@nic.in Title:

Session-2: Drug-Pharmacy & Bio-applications for Security@75

(12:30-1:30 pm)

➤ Chairman	Prof. V. M. Katoch Former DG, ICMR & Secretary to the Govt. of India, New Delhi vishwamohan_katoch@yahoo.co.in
➤ Co-Chair	Dr. Madhu Dixit Former Director, CDRI, Lucknow madhudikshit@yahoo.com
➤ Speaker -1 (20 min)	Dr. Jitendra N. Verma Founder & Managing Director, Life Care Innovations Pvt. Ltd., Gurgaon, Haryana drjnverma@lifecareinnovations.com Title: Bharat offers to the World the only drug to treat MDR Candida auris – Liposomal Amphotericin B in Saline Suspension
➤ Speaker-2 (20 min)	Dr Ajit Kumar Shasany Director, CSIR-National Botanical Research Institute, Lucknow akshasany@gmail.com ; director@nbri.res.in Title: Modern Science in Traditional Wisdom: Indigenous Systems of Medicine
➤ Speaker-3 (20 min)	Dr. T. Rajamannar Executive Vice President & Advisor to MD Head, High Impact Innovations - Sustainable Health Solutions (HISHS)Sun Pharmaceutical Industries Ltd. rajamannarthennati@yahoo.com Title: Discovery of A Novel, Long Acting GLP-1 Receptor Agonist - GL0034

Lunch Break & Poster Display (1:30 - 2:30 pm)**Session 3: Forest, Climate & Environmental Security@75**

(2:30 - 3:30 pm)

➤ Chairman	Dr. Subhra Chakraborty Director, NIPGR, New Delhi schakraborty@nipgr.ac.in
➤ Co-Chair	TBD
➤ Speaker -1 (15 min)	Dr. Rakesh Kadaverugu Principal Scientist, CSIR- NEERI, Nagpur, Maharashtra r_kadaverugu@neeri.res.in Title:

➡ Speaker-2 (15 min)	Dr. Rajendra Dobhal Vice Chancellor, Swami Rama Himalayan University (SRHU), Jolly Grant Swami Ram Nagar, Dehradun, Uttarakhand drdobhal@gmail.com Title:
➡ Speaker-3 (15 min)	Dr. S. Suresh Babu Head & Scientist, SG Aerosols Trace gases and Radiative Forcing (ATRF) Branch, Space Physics Laboratory, Vikram Sarabhai Space Centre (ISRO), Thiruvananthapuram s_sureshbabu@vssc.gov.in Title: Aerosol Radiative Forcing over India and Regional Climate
➡ Speaker-4 (15 min)	Prof. T.G. Sitharam Chairman, AICTE; Former Director, IIT, Guwahati tgs@iitg.ac.in Title: Water Scarcity to Security: Technology, Innovation, and Ideas

Tea Break and Poster Visit for all (3:30 - 4:00 pm)

Session 4: Energy Security@75

(4.00 - 5:00 pm)

➡ Chairman	TBD
➡ Co-Chair	Dr. Pratibha Jolly Former Principal, Miranda House, Delhi University, New Delhi pratibha.jolly@icloud.com
➡ Speaker -1 (20 min)	Dr. Anil Kakodkar Former Secretary, DAE; Past President, NASI kakodkaranil@gmail.com Title: Role of Nuclear energy in India's clean energy future
➡ Speaker-2 (20 min)	Dr. S. S. V. Ramakumar Director, R&D, Indian Oil Corporation Ltd., Faridabad ramakumarssv@gmail.com Title: Decarbonization Strategies for Oil & Gas Sector
➡ Speaker-3 (20 min)	Mr. Vipul Tuli CEO & Managing Director Sembcorp India Private Limited, Gurgaon tulivipul@gmail.com Title:

Tea Break

- ✚ **Council Meeting :** 5:30-6:30 pm
- ✚ **Fellows' Meeting:** 6:30-7:30 pm
- ✚ **AGM :** 7:30-8:00 pm

Dinner (8.00 pm onwards)

Day 2: December 4, 2023

Session 5: Electronics & Cyber Security @75

(9:30 - 10:30 am)

➡ Chairman	Prof. Ajoy K. Ghatak Past President, NASI & Formerly Professor, IIT, New Delhi ajoyghatak5@gmail.com
➡ Co-Chair	Prof. Rudra Pratap Vice Chancellor, Plaksha University, Mohali, Punjab Former Deputy Director, Indian Institute of Science, Bangalore pratap@iisc.ac.in
➡ Speaker -1 (15 min)	Prof. Ranjan Bose Director, IIIT Delhi, New Delhi bose@iiitd.ac.in Title: E-securing the Future

➤ Speaker -2 (15 min)	Prof. Anurag Sharma IIT Delhi, New Delhi anurag.sharma@physics.iitd.ac.in Title: "Optics & Photonics: Science & Technology for the Present and the Future"
➤ Speaker-3 (15 min)	Dr. Manindra Agrawal Professor, IIT Kanpur manindra@iitk.ac.in Title: Cyber security of Critical Infrastructures
➤ Speaker-4 (15 min)	Prof. R.K. Shyam Sundar JC Bose National Fellow & Distinguished V. Professor, IIT Bombay rkss@cse.iitb.ac.in , shyam@acm.org , shyamasundar@gmail.com Title:

Session 6: Space Security @75

(10:30 - 11:30 am)

➤ Chairman	TBD
➤ Co-Chair	Dr. Anil Bhardwaj Director, PRL, Ahmedabad director@prl.res.in ; abhardwaj@prl@res@in
➤ Speaker-1 (20 min)	Dr. K Radhakrishnan Former Chairman, ISRO radhokr272@gmail.com Title:
➤ Speaker -2 (20 min)	Dr. Tessy Thomas Director General of Aeronautical Systems; Former Project Director for Agni-IV missile DRDO dgaero.hqr@gov.in Title:
➤ Speaker-3 (20 min)	Dr. A.S. Kiran Kumar Former Chairman, ISRO kiran_seelin@yahoo.co.in Title:

Tea Break (11:30 am – 12:00 noon)

Panel/Session-7: Medical & Health Security @75

(12:00 - 1:30 pm)

➤ Chairman	Prof. Pramod Garg Professor, Department of Gastroenterology, AIIMS, New Delhi pgarg10@gmail.com
➤ Co-Chair	TBD
➤ Speaker-1 (15 min)	Dr. Rajendra A Badwe TMC, Mumbai badwera@tmc.gov.in Title: Health in India & How can it be secured?
➤ Speaker-2 (15 min)	Prof. Nikhil Tandon Head, Department of Endocrinology & Metabolism, AIIMS, New Delhi nikhil_tandon@hotmail.com Title: Digital Transformation for Health Security @75
➤ Speaker-3 (15 min)	Prof. Bina Ravi Chief of Breast Integrated Care Center, AIIMS, Rishikesh binaravi@gmail.com Title:

<p>➡ Speaker-4 (15 min)</p>	<p>Dr. Prabhdeep Kaur Professor, Isaac Centre for Public Health, Indian Institute of Science, Bengaluru pkaur@iisc.ac.in Title: Saving Lives from Heart Attacks for Healthy and Secure India - Lessons from Hypertension Management in Primary Care at Scale</p>
<p>➡ Speaker-5 (15 min)</p>	<p>Dr. Padma Priya C/o Venkataramana Hospital, 16-2-256, Poga Thota, Nellore - 524001 niisdrspages@gmail.com Title:</p>

Lunch Break & Poster Display: (1:30 – 2:30 pm)

✚ **NASI-Foundation Day Lecture (2:30 – 4:00 pm)**

Chair: Prof. Balram Bhargava, President, NASI

Co-Chair: Prof. Ashok Misra, Past President, NASI

– **Speaker: Dr. R. Ravi Kannan**

Director of the Cachar Cancer Hospital and Research Centre (CCHRC), Meherpur, Assam
admin@cacharcancerhospital.org

Title:

– **Special Address: Shri Adil Zainulbhai**

Chairman, Capacity Building Commission (CBC) of India, New Delhi

Title:

– **Special Address: Prof. Arun K. Grover**

Former Vice chancellor, Panjab University, Chandigarh

Title: A reflection back on Meghnad Saha at the conclusion of *Aazadi Ka Amrut Mahotsava*

– **Felicitation & Thanks by Prof. Jayesh R. Bellare, GS (OS), NASI**

Tea & Poster Visit for all

(VISIT TO BARC LABS: For the Council Members & Distinguished Guests only)

**Cultural Programme- A dulcet evening with Padma Vibhusan Pandit Hari Prasad Chaurasia: 6:00 pm;
followed by Dinner**

Day 3: December 5, 2023

✚ **Addresses by the Sectional Presidents (9:30-10:30 am)**

– **Prof. Jitendra Kr. Bera, Sectional President (Physical Sciences)**

Department of Chemistry, IIT, Kanpur

– **Dr. G. Taru Sharma, Sectional President (Biological Sciences)**

Director, NIAB, Hyderabad

✚ **Addresses by the Invited Speakers of the Scientific Sessions (10:30 am -12:00 noon)**

Physical Sciences

– **Dr. Bedangadas Mohanty**

Professor, School of Physical Sciences, NISER, Bhubaneswar, Odisha

Title: Quark Gluon Plasma: the perfect and most vortical fluid

– **Prof. Nibir Mandal**

Department of Geological Sciences, Jadavpur University, Kolkata

Title:

Biological Sciences

– **Dr. Chandrakant Lahariya**

Executive Director, Foundation for People-centric Health Systems, New Delhi

Title:

– **Dr. Rahul Purwar**

Associate Professor, IIT Mumbai

Title:

Tea Break (12:00-12:30 pm)

(VISIT TO BARC LABS: For the Council Members & Distinguished Guests only)

Parallel Activities (12:30 – 1:30 pm)

- **Posters Evaluation by the Sectional Presidents & their team (12:30 -1:30 pm)**
- **Summing-up (with focus on *Atma-Nirbharar Bharat*) (12:30 – 1:30 pm)**

Chairman	Prof. Balram Bhargava , President, NASI
Co-Chairman	Prof. A. K. Singh , Chairman, NASI-Mumbai Chapter
Speaker-1	Dr. V. K. Paul , Member, NITI Ayog; Professor, AIIMS, New Delhi
Speaker-2	Dr. R. Chidambaram , Former Chairman, AEC – Chief Guest
Remarks by the Chairs and Co-Chairs of the Scientific Sessions	
Concluding Remarks by the Past Presidents, NASI <ul style="list-style-type: none"> – Prof. Ashok Misra – Prof. Manju Sharma – Prof. J.P.Mittal – Prof. Ajoy Ghatak – Prof. Akhilesh K. Tyagi 	
Vote of thanks	

***Lunch Break:** (1:30-2:30 pm)*

Valedictory & Award Presentation (2:30 – 3:30 pm)

- ➡ **To be presided over by the President, NASI (Prof. Balram Bhargava)**
- ➡ **Remarks by the Sectional Presidents**
- ➡ **Remarks by the Convener: Dr. S. M. Yusuf, Convener, Director, Physics Group, BARC, Mumbai**
- ➡ **Presentation of the Awards/Prizes (by the Past Presidents) to:**
 - NASI-Reliance Awardees
 - Best Poster Awardees
- ➡ **Vote of Thanks by Dr. P. A. Hassan, Secretary, NASI-Mumbai Chapter**

High Tea