

List of speakers of NUCAR-2023 with title of their Talk

Sr. No.	Name of the Speaker with Designation	Type of the Talk	Title of the talk
1	Shri. Umesh Dani, CE, NRB, DAE, Mumbai	Plenary Talk	Management of Back End Fuel Cycle Activities for Power Reactor by NRB
2	Dr. P.K. Mohapatra, AD, RC & IG, BARC	Plenary Talk	Selective Dissolution of Metal Oxides in Room Temperature Ionic Liquids: A New Strategy in Separation Science
3	Dr. K.L. Ramakumar, Former Director, RC & IG, BARC	Special Lecture	Role of Chemistry in the Utilisation of Atomic Energy
4	Dr. S. Kailas, Former Director, Physics group, BARC	Special Lecture	Role of Physics in the progress of Atomic Energy in India
5	Dr. Apte, Former AD, Bio-Science Group, BARC	Special Lecture	New Biotechnologies for Atomic Energy Programmes Beyond Crop Improvement, Food Preservation and Theranostics
6	Dr. Shashank Chaturvedi, Director, IPR, Gandhinagar,	Thematic lecture	Fusion and Plasma Research in India: Status and Future Directions
7	Dr. Sudhir Mishra, Head IF3, BARC	Thematic lecture	Advance Nuclear Fuels
8	Dr. A.K. Nayak, Head, NCPW, DAE	Thematic lecture	Relevance of SMRs for a De-carbon Energy Scenario
9	Dr. Srinivas Krishnagopal, Director, MRG (N), BARC	Thematic lecture	High Intensity (Superconducting) Proton Accelerators for ADS
10	Shri. Y. Balaji rao, GM, NFC, Hyderabad	Invited Talk	Nuclear Fuel Complex-<i>from Past to Present...Fifty Years of Golden Journey in Indian Nuclear Power Program</i>
11	Dr. Jane Alam, VECC, DAE, Kolkata	Invited Talk	The nuclear phase diagram: critical point and spin polarization
12	Dr. Anantasivan, Director, RPG, IGCAR	Invited Talk	Nanocosm and the Nuclear Chemist
13	Dr. Smeer Durani, AMD, DAE, Hyderabad	Invited Talk	Challenges in analysis of Rare metals and Rare earth elements in complex geological materials

14	Prof. N. Karunakara, Mangalore University, India	Invited Talk	Development of methods for Carbon-14 specific activity determination, quantification of its release rates from PHWR nuclear power plant at Kaiga, excess activity in environmental biota and dose to the public
15	Prof. Ken Czerwinski, University of Nevada, Las Vegas, USA	Invited Talk	Novel Synthesis of Actinide Halides: Implications for the Nuclear Fuel Cycle and Nuclear Forensics
16	Prof. Sarata Kumar Sahoo, National Institute of Radiological Sciences, Chiba, Japan	Invited Talk	Distribution of Strontium-90 in soils affected by Fukushima dai-ichi nuclear power station accident in the context of cesium-137 contamination
17	Prof. Sunil S. Chirayath, Texas A&M University, Texas, USA	Invited Talk	Computational and Experimental Methods to Estimate Burnup, Cooling Time, and Reactor-type of Irradiated Nuclear Fuel for Nuclear Forensics Applications
18	Prof. Liddle Stephen Taylor, The University of Manchester, Oxford Road, Manchester, UK	Invited Talk	Recent Advances in Actinide-Ligand Multiple Bonding
19	Prof. Victor Vinograd, Forschungszentrum Jülich GmbH, Germany	Invited Talk	Thermodynamic modelling of the oxidation of Ln- and Pu-doped UO₂
20	Dr. Vikram Lele, Jaslok Hospitals, Mumbai	Invited Talk	New Radiopharmaceuticals: new insights into disease and therapy
21	Dr. Dhanadeep Dutta, RCD, BARC	Invited Short Presentation	Positron Annihilation Spectroscopy: an excellent probe for observing changes in pore architecture during CO₂ adsorption in metal organic frameworks
22	Dr. G.L.N. Reddy. NCCM Hyderabad	Invited Short Presentation	Probing the Depths: Ion Beam Analysis for Material Characterization
23	Dr. Asim Pal, NPD, BARC	Invited Short Presentation	Study of nuclear fission process using heavy ion induced nuclear reaction
24	Dr. Pradeep Samui, PDD, BARC	Invited Short Presentation	Chemical Aspects of Advanced Nuclear Reactor
25	Dr. H.K. Poswal, HP&SRPD, BARC	Invited Short	Synchrotron Beam line for Study of Radioactive

		Presentation	materials
26	Dr. Manjulata Sahu, RACD, BARC	Invited Short Presentation	Thermodynamics of a few probable interaction products formed inside oxide nuclear fuel
27	Dr. Sumana Paul, FCD, BARC	Invited Short Presentation	Advanced Sample Loading Techniques for TIMS
28	Dr. G. Mohini, RPhD, BARC	Invited Short Presentation	Radiolabeled porphyrins as theragnostic agents: Nuclear medicine and PDT
29	Dr. Suchismita Mishra, EAD, BARC	Invited Short Presentation	Identification and quantification of elemental and anionic impurities as forensic signature in isotopically natural uranium matrices
30	Dr. Chhavi Agarwal, RCD, BARC	Invited Short Presentation	A Systematic Evolution towards the Development of a Comprehensive Gamma Scanning System for Special Nuclear Materials Assay
31	Dr. V.G. Mishra, RACD, BARC	Invited Short Presentation	Separation of fission molly by pyrohydrolysis: an alternate approach.
32	Dr. Sitangshu Chatterjee, IRAD	Invited Short Presentation	Application of environmental radioactive isotopes (^3H and ^{14}C) in hydrological studies