

## India International Science Festival IISF- 2022

Ministry of Science and Technology,  
Ministry Earth Sciences,  
Department of Space & Department of Atomic Energy  
Govt. of India  
and Vijnana Bharati

## YOUNG SCIENTIST CONFERENCE (YSC)

**Date: 22-24 January 2023**

**Venue:** Auditorium, MSME, Department, MANIT, Bhopal, M.P.

### Programme Schedule

22 January 2023 (Day one)		
7:30 - 8:30 A.M.	Breakfast at hotel	
8:30 - 9:00 A.M.	Travel to venue	
9:00 - 9:30 A.M.	<b>Registration</b>	
<b>SESSION-I</b> <b>Inauguration ( MSME Auditorium)</b>		
9:30 - 10:00 A.M.	<b>By dignitaries</b>	
<b>PLENARY-I ( MSME Auditorium)</b>		
<b>SESSION-II</b> <b>Chaired by: Dr. Arun Bandopadhyay, Director, IICB, Kolkata</b>		
10:00 - 11:00 A.M.	<b>Title:</b> Planetary and Space Missions of India  <b>Speaker:</b> Dr. Anil Bhardwaj, Director Physical Research Laboratory, Ahmedabad	<b>Title:</b> TBA  <b>Speaker:</b> Dr Y. Sreenivas Rao, Outstanding Scientist and Director General, NSTL, Vishakhapatnam, India
11:00 - 11:30 A.M.	<b>TEA</b>	

<b>PLENARY-II ( MSME Auditorium)</b>				
<b>SESSION-III      Chaired by: Dr Y. Sreenivas Rao, Outstanding Scientist and Director General, NSTL, Vishakhapatnam</b>				
<b>11:30 A.M.- 01:00 P.M.</b>	<b>Title:</b> Role of quantum and digital technologies in Metrology  <b>Speaker:</b> Prof. Venugopal Achanta, Director, CSIR-NPL-Physics, Delhi, India	<b>Title:</b> Illuminating the Light: Golden Harvests in Past and Opportunities in Future  <b>Speaker:</b> Prof. Tapas Chakraborty, Director, IACS, India	<b>Title:</b> "Space and Advanced Technologies for Disasters and Pandemic Management"  <b>Speaker:</b> Ramella Murthy, ISRO, Hony. Secretary, Telemedicine Society of India (TSI), India	
<b>1:00 - 02:00 P.M.</b>	<b>LUNCH</b>			
<b>PLENARY-III ( MSME Auditorium)</b>				
<b>SESSION-IV      Chaired by: Dr. N. P. Shukla, Member Technical, Commission for Air Quality Control, NCR</b>				
<b>02:00 - 4:00 P.M.</b>	<b>Title:</b> Hidden Hunger, Mal nutrition Alleviation and SDGs-Priming Indian Aqua Culture Towards Nutritional Security  <b>Speaker:</b> Dr.Bimal Prasanna Mohanty, Addl DG, ICAR, KAB-II, PUSA, New Delhi, India	<b>Title:</b> Changing Paradigms of Solid Waste Management  <b>Speaker:</b> Dr Arup Kumar Misra, Chairman, SPCB, North East, India.	<b>Title:</b> Be the Change  <b>Speaker:</b> Prof. Pradeep Kumar Mishra, VC, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow.	<b>Title:</b> Molecular simulations, continuum models and some related issues  <b>Speaker:</b> Prof. Shakti S Gupta, Department of Mechanical Engineering, Indian Institute of Technology, Kanpur, India
<b>4:00 - 4:30 P.M.</b>	<b>TEA</b>			
<b>SESSION-V      Parallel Sessions (MSME, HALL A, HALL B)</b>				
<b>4:30PM-6:00 PM</b>	<b>MSME Auditorium (Pandemic Challenges AND Food and Energy Security)</b> <b>Chaired by :</b> Prof. V.Achanta, Director, NPL  <b>( P1-p7)</b>	<b>YSC Hall-A (Bio diversity &amp; Climate Change)</b> <b>Chaired by:</b> Prof. Tapas Chakraborty Director, IACS, Kolkata  <b>(B1-B7)</b>	<b>YSC -Hall B (Water Conservation)</b> <b>Chaired by:</b> Dr. Bimal Prasanna Mohanty Additional DG, ICAR, PUSA, New Delhi  <b>(P8,WC1-WC5)</b>	

## 23 January 2023 (Day Two)

### PLENARY-V (MSME Auditorium)

#### SESSION-I

Prof. Sachin Mandavgane

<b>9:30 -11:00 AM</b>	<b>Title:</b> New Challenges of Nanomaterials for Energy Harvesting  <b>Speaker:</b> Prof Amitava Patra, Director, INST, Mohali	<b>Title:</b> TBA  <b>Speaker:</b> Dr. Ashwini Ranade, Scientist, NIH, Roorkee.	<b>Title:</b> TBA  <b>Speaker:</b> Dr Uma Kumar Prof & Head of Department, All India Institute of Medical Sciences, New Delhi, India.
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**11:00 -11:30 AM**

**TEA**

### PLENARY-VI (MSME Auditorium)

#### SESSION-II

**Chaired by: Prof. Sanjay Tiwari, Vice Chancellor, Bhoj Open University, Bhopal**

<b>11:30 AM-1:00 PM</b>	<b>Title:</b> Towards a theory of Everything  <b>Speaker:</b> Prof. Kamal L. Panigrahi, Professor, IIT Kharagpur, India	<b>Title:</b> Role of Fundamental Science to Develop Atmanirbhar CO2 Utilization Technology using Solar Energy and Green Hydrogen  <b>Speaker:</b> Prof. Vivek Polshettiwar, Tata Institute of Fundamental Research (TIFR), Mumbai, India	<b>Title:</b> Milestones of Science and Technology of India  <b>Speaker:</b> Prof. Ayan Datta, Indian Association for the Cultivation of Science, West Bengal, India
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**1:00 PM- 2:00 PM**

**LUNCH**

### PLENARY-VII (MSME Auditorium)

#### SESSION-III

**Chaired by: Prof. Ayan Datta**

<b>2.00 - 3.30PM</b>	<b>Title:</b> TBA  <b>Speaker:</b> Dr. Neha Arya, Assistant Professor, AIIMS, Bhopal	<b>Title:</b> Pandemic- Challenges and opportunities  <b>Speaker:</b> Dr. Puneet Mishra, Professor of Community Medicine, All India Institute of Medical Sciences, Delhi	<b>Title:</b> Translational Medicine Why is it needed?  <b>Speaker:</b> Dr. Megha Katore Pandey, Associate Professor, AIIMS, Bhopal
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**3:30 PM-4:00 PM**

**TEA**

**4:00 PM-5:00 PM**

**Parallel presentations**

	<b>MSME Auditorium (Theme: Frontier Research)</b>  <b>Chaired by:</b> Prof. Ayan Dutta, IACS  <b>Invited Speaker:</b> Brahmansu Mishra, CEO, MontekMonk (Invited) Title: Real time voice translation technology <b>FR-1 to FR-4</b>	<b>YSC Hall-A (Theme: Frontier Research)</b>  <b>Chaired by:</b> Vivek Polshettiwar, TIFR, Mumbai  <b>FR-5 to FR-10</b>	<b>YSC -Hall 2 (Theme: Frontier Research)</b>  <b>Chaired by:</b> Oral Presentations  <b>FR-11 to FR-16</b>
<b>5:00PM -7:00 PM</b>	<b>POSTER SESSION</b> <b>(will be evaluated by Jury members for best poster presentations on theme basis)</b>		
<b>24 January 2023 (Day Three)</b>			
<b>PLENARY-VIII ( MSME Auditorium)</b> <b>Chaired by: TBA</b>			
<b>SESSION-I</b>			
<b>9:30-11:00 AM</b>	<b>Panel Discussion: S-20</b> <b>Panel Members:</b> 1. Dr. Suryesh K. Namdeo, DST Centre for Policy Research 2. Dr. Manoj Kumar Gupta, CSIR-AMPRI Bhopal 3. Dr. Meher Wan, CSIR-NIScPR, New Delhi 4. Prof. Sachin Mandavgane, VNIT Nagpur		
<b>11:00 -11:30 AM</b>	<b>TEA</b>		
<b>11:30 AM-12:30 PM</b>	<b>Panel Discussion: Environment &amp; Climate Change</b> <b>Chaired by: J R BHAT, Advisor (Climate Change), Ministry of Environment, Forest and Climate Change.</b> Panel Members: 1. A. P. Dimiri, Director, IIG, Mumbai 2. Dr. S. K. Barik, NBRI, Lucknow 3. Prof. B. R Gurjar, IIT, Roorkee 4. Dr. Ashwini Ranade, Scientist, NIH, Roorkee		
<b>12:30PM-1:30 PM</b>	<b>Awards &amp; Valedictory</b>		
	<b>Feedback &amp; Closing Ceremony</b>		