



## National Conference & Exhibition Akash for Life

Uttaranchal University Campus, Dehradun

November 04 – 07, 2022

### TENTATIVE PROGRAM SCHEDULE

Time	Topics	Speaker
<b>Day One (5<sup>th</sup> November 2022)</b>		
8:00 – 10:00	<b>Registration</b>	
10:00 – 10:30	<b>High Tea</b>	
10:30 – 11:45	Inauguration of the conference <ul style="list-style-type: none"><li>Honorable Minister of State Dr. Jitendra Singh ji, as Chief Guest</li><li>Hon. Chief Minister Sh Pushkar Singh Dhami ji as Guest of Honor</li><li>Dr. Ajay Kumar Sood ji, Principal Scientific Advisor, Govt. of India</li><li>Honorable Bhaiyaji Joshi</li><li>Honorable Dr. Pranav Pandya</li><li>Shri S. Somanath, Secretary DOS and Chairman Space Commission</li><li>Felicitation of Dignitaries by Chancellor, Uttaranchal University</li><li>Shri Vivekananda Pai, National Secretary, Vigyan Bharati</li></ul>	
<b>Plenary I</b>		
11:45-12:15	Earth's climate system and Indian Monsoon	<b>Dr. R. Krishnan</b> Director IITM, Pune
<b>Session 1 (Earth and Atmosphere: Interaction of Akash)</b> <b>Chair: Prof. Ajay Kumar Sood, PSA to Govt. of India</b> <b>Rapporteur: Dr. Kalachand Sain, Director, WIHG</b>		
12:20–12:40	Atmospheric layers and effects on human health	<b>Dr T. K. Mandal</b> Scientist NPL, New Delhi
12:40–13:00	Influence of the Sun on Life and Akash	<b>Prof. Dibyendu Nandi</b> Professor IISER Kolkata
13:00- 13:20	Indian Earth Observation Programme for sustainable development and humanity	<b>Dr. Shantanu Bhatawdekar</b> , Scientific Secretary, ISRO Bengaluru
13:20–14:10	<b>Lunch break</b>	
<b>Plenary II</b>		
14:10–14:40	Evolution Role of Akasha in Vedic, Yogic and Vedantic texts and practices	<b>Dr. David Frawley</b> Astrologer (Acharya)

		American Institute of Vedic Studies-USA <b>(Online)</b>
<b>Session 2 (Environment &amp; Climate change: Role of Akash)</b> <b>Chair: Dr. S. Chandrashekhar, Secretary, DST</b> <b>Rapporteur: Prof. Durgesh Pant, Director General, UCOST</b>		
14:45-15:05	Climate change studies in Indian science community	<b>Dr. A. P. Dimri</b> Director, IIG, Mumbai
15:05-15:25	Countering the false narrative on Climate change	<b>Prof. J. R. Bhatt</b> Advisor MOEFCC, New Delhi
15:25-15:45	Earth's Carbon budget as a global common	<b>Dr. Tejal Kanitkar</b> Professor NIAS, Bangalore
15:45-16:15	<b>Tea Break</b>	
16:15-16:35	Climate change and glaciers in the Indian Himalayan region	<b>Dr. Anil Kulkarni</b> Scientist IISc Bangalore
16:35- 16:55	Rethinking sustainability and resilience in the context of the Akash tattva	<b>Prof. Anand Patwardhan</b> Professor University of Maryland, USA
16:55-17:15	Global Commons, Carbon Budgets and Climate Equity	<b>Prof. T. Jayaraman</b> Professor MSSF, Chennai
17:15-17:35	Climate Change Water Quality and Harmful Algal Blooms: From Ancient Wisdom to Modern Science	<b>Dr Mukul Tewari</b> Scientist, Thomas J. Watson Research Center, NY, USA <b>(Online)</b>
<b>Panel Discussion</b>		
17:35-18:35	<b>Panel discussion -1</b> <b>Environment and Climate Change</b>	<b>Dr. Raman Sukumar</b> <b>(Moderator)</b> Professor, IISc Bangalore <b>Dr. Prakash Chauhan</b> Director, NRSC <b>Dr. A. K. Sahai</b> Rtd. Scientist, IITM Pune <b>Prof. S. Gurubaran</b> IIG, Mumbai <b>Dr. Rashmi Sharma</b> Scientist, SAC
<b>18:40-19:10 Keynote: Prof. Sisir Roy (30 minutes) (Online)</b>		
<b>19:15-20:15 (Cultural Programme)</b>		
<b>Dinner</b> <b>Hosted by Hon. Chief Minister of Uttarakhand</b> <b>20:15-21:30</b>		

## Day Two (6<sup>th</sup> November 2022)

### Plenary III

9:00 – 9:30	Climate variability, predictability and change	<b>Prof. J. Shukla</b> MD COLA & Professor George Mason University, USA <b>(Online)</b>
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### Session 3 (Impact of modern technologies and Life style on Akash)

**Chair: Shri. S. Somanath, Secretary DOS and Chairman, Space Commission**

**Rapporteur: Dr. Sudheer Kumar N, Director, CBPO**

9:35 – 9:55	Weather modification & various Geo-eng. technologies: its impact on India and way ahead	<b>Shri Ankush Kohli</b>
9:55 – 10:15	Impact of Extreme Space Weather events on Geospace (Akash)	<b>Dr. Geeta Vichare</b> Professor IIG, Mumbai
10:15 – 10:35	Restoring national air resources: challenges to solutions	<b>Prof. Mukesh Sharma</b> Professor IIT Kanpur <b>(Online)</b>
10:35-10:55	<b>Tea Break</b>	
10:55- 11:15	The Doctrine of Clean Akash: The Healthy Air	<b>Prof. Mukesh Khare</b> Professor IIT Delhi
11:15- 11:35	Trends and variability of particulate matters over Delhi-NCR in the last decade: a new sight on meteorological parameters vis-à-vis air pollution	<b>Prof. S. K. Dhaka</b> Professor Delhi University
11:35-11:55	Taping the Intuitive ability by knowing the three kind of space of human existence	<b>Prof. Subinoy Das</b> Astrophysicist, IIA

### Plenary IV

11:55- 12:25	Indian Planetary Missions : Challenges and Science	<b>Prof. Anil Bhardwaj</b> Director PRL, Ahmedabad
12:30-13:15	<b>LUNCH</b>	

### Session 4 (Technologies for knowing Akash)

**Chair: Dr. Rajesh S. Gokhale, Secretary, DBT**

**Rapporteur: Dr. Anita Rawat, Director, USERC**

13:15- 13:35	Akash: A holistic and multidimensional approach	<b>Dr. T. V. Muralivallabhan</b> Director, Marian Institute of Management, Kuttikkanam
13:35-13:55	Importance of “Akash” tatv in weather and climate modeling / forecasting	<b>Dr. Akhilesh Mishra</b> Scientist NCMRWF, Noida
13:55-14:15	Monitoring solar activity using ground-based instruments	<b>Dr. Nandita Srivastava</b> Professor PRL, Udaipur <b>(Online)</b>

14:15-14:35	Regional earth system modeling framework unravelling the Akash interactions: a boon for south Asian climate studies	<b>Dr. Pankaj Kumar</b> Professor IISER Bhopal
14:35-14:55	Measuring Solar Disturbances that Affect Life on Earth	<b>Dr. Natchimuthuk Gopalswamy</b> Scientist NASA, USA <u>(Online)</u>
14:55-15:10	<b>Tea Break</b>	
<b>Session 5 (Sustainability, Adaptation and Mitigation Measures)</b> Chair: Dr. M. Ravichandran, Secretary, MoES Rapporteur: Dr Sumit Mishra, NPL		
15:10- 15:30	Ayurveda and Aakash	<b>Dr. Rama Jayasundar</b> Professor & Head Dept. of NMR, AIIMS, New Delhi <u>(Online)</u>
15:30- 15:50	Sustainable development (carbon and climate finance)	<b>Prof. Amit Garg</b> Professor IIM Ahmedabad
15:50 – 16:10	Technology and our star: A Cosmic Forecast	<b>Dr. Madhulika Guhathakurta</b> NASA/USA <u>(Online)</u>
16:10- 17:10	<b>Panel Discussion-2 (Observation Systems)</b>	1. <b>Dr. Arup Kumar Misra</b> Chairman State Pollution Control Board, Assam <b>(Moderator)</b> 2. <b>Dr. V. K. Dadhwal,</b> Indira Gandhi Chair Professor of Environmental Science NIAS 3. <b>Prof. Dipankar Banerjee</b> Director, ARIES 4. <b>Dr. Tarun Kumar Pant</b> SPL/VSSC
17:10- 17:30	<b>Valedictory Function</b>	