



# INDIA SCIENCE FESTIVAL

• FUTURE IS NOW •

## ISF 2023 DAY-WISE SCHEDULE

### 20 JANUARY, FRIDAY

5:30 PM	Welcome note
5:40 PM	Introduction to FAST India
5:50 PM	Launch of EODS report and presentation of findings
6:10 PM	Introduction to the India Science Festival 2023
6:30 PM	Declaration of the Science Word of the Year
6:45 PM	The Dance of Life: A Science themed bharanatyam performance by Dr. Mallika Sarabhai and her troupe at Darpana

### 21 JANUARY, SATURDAY

	Nucleus Arena Age: 14 years and above	Cosmos Arena Age: 14 years and above	Helix Library Steps Age: 14 years and above	Shaheen Metaverse Age: 14 years and above
9:00 AM	Registration			
10:00 AM - 11:00 AM	<b>TALK</b> <b>Unlocking the secrets of the universe: a walk through a particle accelerator</b> Archana Sharma, CERN, Switzerland	<b>TALK</b> <b>Machine Learning: past, present, and (a likely) future</b> Prateek Jain, Google Research India	<b>FIRESIDE CHAT</b> <b>Changing trends: What it means to be a technologist in 21st Century?</b> Jayant Krishna (FAST India) in conversation with Charu Srinivasan, Microsoft India	<b>TALK</b> <b>Eyes behind JWST: from First Light to New Planets</b> Mark McCaughrean, European Space Agency, Netherlands
11:00 AM - 12:00 PM	<b>TALK</b> <b>Varahamihira's eclipse proof - Exploring the history of Indian astronomy</b> R Copu, Varahamihira Science Forum	<b>PANEL DISCUSSION</b> <b>Blurring lines: National Security and Our Technology Edge</b> Mudit Narain (FAST India), Vrinda Kapoor (3rdTech), Udayan Ganguly (IIT Bombay), Jaya Baloo (Avast Software), Rahul Seth (Territorial Army and Antler VC)	<b>FIRESIDE CHAT</b> <b>If the #FutureIsNow, where's AI taking us?</b> Sayantan Datta (Krea University, India) in conversation with James A. Evans (University of Chicago)	<b>PANEL DISCUSSION</b> <b>Technology in Arts &amp; Culture: Expanding Boundaries of Human Experience</b> Sarah Hyder Iqbal (FAST India), Madhushree Kamak (Science Gallery Bengaluru), Avinash Kumar (Quicksand Studio), MSR Murthy (Murthovic)
12:00 PM - 01:00 PM	<b>PANEL DISCUSSION</b> <b>Imagining Utopia: Will there ever be a disease-free world?</b> K Srinath Reddy (PHFI), Chris Karp (BMGF), Gagandeep Kang (CMC Vellore), Abhay Bang (SEARCH Gadchiroli)	<b>TALK</b> <b>Accelerating Scientific Discovery with Advances in Computing</b> Sriram Raghavan, IBM Research AI, USA	<b>ISF BOOK TALK</b> <b>India's Science Geniuses</b> Sonal Katyal (NCBS Bangalore) in conversation with Archana Sharma (Author; CERN, Switzerland)	<b>TALK</b> <b>Time Crystals: A New Phase of Matter</b> Vedika Khemani, Stanford University, USA
01:00 PM - 02:00 PM	<b>TALK</b> <b>Project Dost: Make conversations with your AI-Driven Smart-Friend!</b> Aniket Bera, Purdue University, USA		<b>FIRESIDE CHAT</b> <b>Stealth Mode Activated - How safe is your internet?</b> Suchitha Champak (SciRio) in conversation with Jaya Baloo (Avast Software, Czech Republic)	<b>TALK</b> <b>Diffusion, Demons and Motors: How Biology and Physics work together</b> Gautam Menon, Ashoka University, India
02:00 - 03:30 PM	Talk Your Thesis Finale - Hosted by comedian and author Biswa Kalyan Rath			
03:30 PM - 04:30 PM	<b>TALK</b> <b>Leaving no one behind: The balancing act in Global Health</b> Chris Karp, Bill & Melinda Gates Foundation, USA	<b>TALK</b> <b>Art of doing disruptive research: Lessons from my journey in AI</b> Sumit Gulwani, Microsoft Research, USA	<b>FIRESIDE CHAT</b> <b>Footsteps across Antarctica to Arctic via the Stratosphere</b> In conversation with Dr Shivaji Sisinthy, LVPEI, Hyderabad, India	<b>TALK</b> <b>The Rise of the Transformers! Machine that make music</b> Guy Brown, University of Sheffield, UK
04:30 PM - 05:30 PM	<b>TALK</b> <b>Size doesn't matter: How nanomaterials are shaping our future</b> Udayan Ganguly, IIT Bombay, India	<b>TALK</b> <b>Act Early - Neuroscience says our kids need help!</b> Vikram Patel, Sangath India & Harvard University, USA	<b>FIRESIDE CHAT</b> <b>Lie Detector: Fact-Checking in Science</b> Zille Anam (UKRI) in conversation with Subhra Priyadarshini (Nature India) and Pranav Radhakrishnan (Youtuber), India	<b>ISF BOOK TALK</b> <b>The Man from the Future - The Visionary Life of John von Neumann</b> Siddharth Kankaria (NCBS, India) in conversation with Ananyo Bhattacharya (Author & Journalist, UK)
05:30 PM - 06:30 PM		<b>PANEL DISCUSSION</b> <b>How to build a Bell Labs in India: Can industry turbocharge our research ecosystem?</b> Ashish Dhawan (The Convergence Foundation), Satish Reddy (Dr Reddy's Laboratory), Hemang Jani (Capacity Building Commission), Ravi Pandit (KPIT Technologies), Deepanwita Chattapadhyay (IKP Knowledge Park)		
5:30 - 6:30 PM	<b>Elsewhere in India: A science-fiction odyssey</b> Performance by Murthovic (MSR Murthy) & Thiruda (Avinash Kumar)			

### 22 JANUARY, SUNDAY

	Nucleus Arena Age: 14 years and above	Cosmos Arena Age: 14 years and above	Helix Library Steps Age: 14 years and above	Shaheen Metaverse Age: 14 years and above
9:00 AM	Registration			
10:00 AM - 11:00 AM	<b>PANEL DISCUSSION</b> <b>Beyond doing science as a virtue: What should India's science ambitions be?</b> Varun Aggarwal (FAST India), K Vijay Raghavan (NCBS Bangalore), Thomas Barlow (Barlow Advisory Group), Deepanwita Chattapadhyay (IKP Knowledge Park), Sriram Raghavan (IBM Research AI)			
11:00 AM - 12:00 PM	<b>TALK</b> <b>From Machine Learning to Robots - How is medicine using technology?</b> Anurag Agrawal, Ashoka University, India	<b>PANEL DISCUSSION</b> <b>Climate change: Is it science, policy or behavioral change that will fix it?</b> Iain Stewart (Royal Scientific Society), Smita Rakesh (Social Alpha), Mahesh Godi (GODI), Mukund Rajan (ECube Investment Advisors Private Limited)	<b>FIRESIDE CHAT</b> <b>Space and Beyond: The NASA Experience</b> Sandhya Ramesh (The Print) in conversation with NASA engineer Bidushi Bhattacharya (Astrohub, USA)	<b>TALK</b> <b>The science and magic in Indian classical music - a practical demonstration</b> Debojyoti Chakraborty, CSIR-IGIB, New Delhi, India
12:00 PM - 01:00 PM	<b>TALK</b> <b>Public Health - For the people, By the people</b> Abhay Bang, SEARCH Gadchiroli, India	<b>PANEL DISCUSSION</b> <b>The Bollywood Spotlight on Scientists</b> In conversation with the makers of the series Rocket Boys Mallika Sarabhai (Dancer), Siddharth Roy Kapur (Producer), Monisha Advani (Producer) Abhay Pannu (Director), Co-Hosted by Karishma Kaushik (Pune University), Maya Sharma (NDTV)	<b>ISF BOOK TALK</b> <b>Invisible Empire: The Natural History of Viruses</b> Padma Priya (Suno India) in conversation with Pranay Lal, India (Author)	<b>PANEL DISCUSSION</b> <b>Future of AI: Big Models or Smart Models?</b> Varun Aggarwal (FAST India), Sriram Raghavan (IBM Research AI), Sumit Gulwani (Microsoft), Geetha Manjunath (Niramai.AI)
01:00 PM - 02:00 PM	<b>PANEL DISCUSSION:</b> <b>Gene editing: Playing God or saving the planet?</b> Subhra Priyadarshini (Nature India), Anurag Agrawal (Ashoka University), Subhash Lingareddy (MapMyGenome), Debjyoti Chakravarty (CSIR-IGIB, New Delhi)	<b>TALK</b> <b>Earth Science for Planetary and Human Wellbeing</b> Iain Stewart, Royal Scientific Society, Jordan	<b>ISF BOOK TALK</b> <b>Genetically Modified Democracy</b> Sayantan Datta (Krea University, India) in conversation with Aniket Aga (Author; Ashoka University, India)	<b>FIRESIDE CHAT</b> <b>Art and Humour to the (wildlife) rescue!</b> Siuli Mitra (CMC Vellore) in conversation with Arjun Srivathsa (NCBS, India) and Rohan Chakravarty (Green Humour, India)
02:00 PM - 03:00 PM	<b>PANEL DISCUSSION</b> <b>India, where are your books on science? Launch of the FAST India Science Book Fellowships</b> Maya Sharma (NDTV), Pranay Lal (Author), Jahnavi Phalkey (Science Gallery Bengaluru), Ananyo Bhattacharya (Author), Devangshu Datta (Juggernaut Books)	<b>TALK</b> <b>Mush-room for discussion - How does your brain respond to psychedelics?</b> Vidita Vaidya, TIFR Mumbai, India	<b>FIRESIDE CHAT</b> <b>Science In The Corridors of Power</b> Anjana Seshadhri (FAST India) in conversation with Thomas Barlow (Barlow Advisory Group, Australia)	<b>TALK</b> <b>Hyderabad Kaiku? Making of a science city</b> Dinesh C Sharma, Author & Journalist, India
03:00 PM - 04:00 PM	<b>TALK</b> <b>Saving lives with Artificial Intelligence</b> Geetha Manjunath, Niramai.AI, India	<b>PANEL DISCUSSION</b> <b>Space Startups galore: Can they help India realize its space dreams?</b> Sandhya Ramesh (The Print), Bidushi Bhattacharya (AstroHub), Rohan Ganapathy (Bellatrix Aerospace), Rahul Seth (Antler), CVS Kiran (Skyroot)	<b>FIRESIDE CHAT</b> <b>Eye to Eye</b> In conversation with Dr Subhadra Jalali (LVPEI, Hyderabad)	<b>FILM SCREENING AND FIRESIDE CHAT</b> <b>The Astronaut and the Parrot</b> Film screening and discussion with Arati Kadav (Filmmaker)
04:00 PM - 05:00 PM	<b>PANEL DISCUSSION</b> <b>Living in the metaverse: Life, ethics, work and adventure</b> Kuldeep Singh (SHL), Aniket Bera (Purdue University), Jaya Baloo (Avast Software), Rachel Mason (Science Made Simple, UK)	<b>TALK</b> <b>The Secret Lives of STEM Cells</b> Jyotsna Dhawan, CSIR-CCMB, India	<b>AUDIENCE INTERACTION</b> <b>Ask Us Anything: Life of a Scientist</b> Karishma Kaushik (Savitribai Phule Pune University), Aniket Bera (Purdue University), Mark McCaughrean (ESA), James Evans (UChicago), Vidita Vaidya (TIFR Mumbai)	<b>TALK</b> <b>Brain in Seizures: Decoding Epilepsy</b> Manjari Tripathi, AIIMS, New Delhi
5:00 - 5:30 PM	<b>Closing Ceremony &amp; Prize Distribution</b>			
5:30 - 6:30 PM	<b>Musical performance by The MaaHaa Project</b> Fusing traditional storytelling and soulful music			