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INDIA SCIENCE FESTIVAL

• FUTURE IS NOW •



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TSIC
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20th to 22nd
JANUARY
2023

THE HYDERABAD
PUBLIC SCHOOL,
BEGUMPET

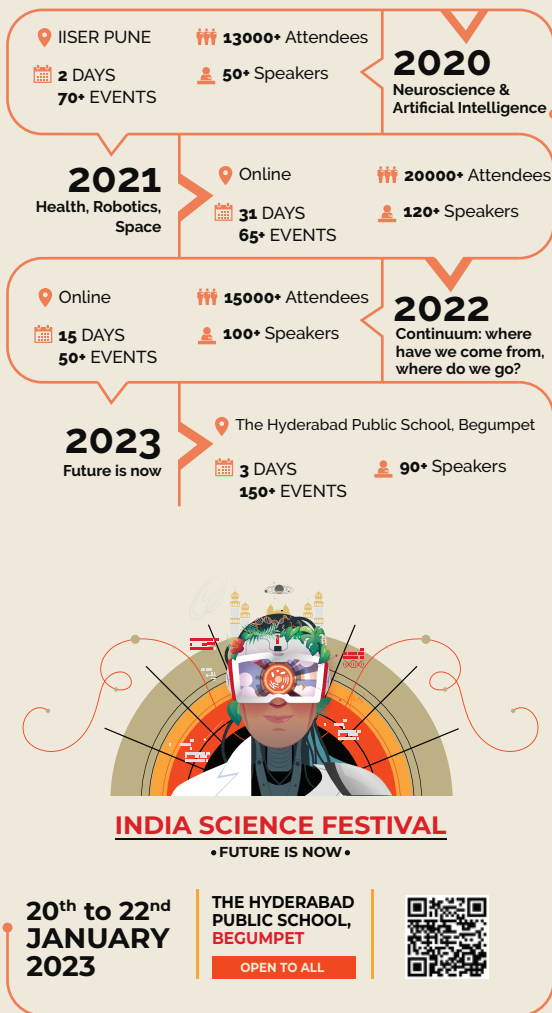
FOR MORE INFORMATION VISIT
WWW.INDIASCIENCEFEST.ORG



India Science Festival

The **India Science Festival (ISF)** is the flagship annual event of the Foundation for Advancing Science and Technology (FAST India). Since its **launch** in 2019, ISF has served as a **vibrant and stimulating platform** to celebrate and explore science in every way possible by bringing together a diverse array of professionals to engage and inspire a wide-ranging audience. The festival aims to **inspire and nurture interest and appreciation of science** in young people and the public at large.

The entry to ISF is free and open to all, in keeping with our ambition to make science accessible to all.



భవిష్యత్తు ఇప్పుడు
 THE FUTURE IS NOW
 भविष्य आज
 THE FUTURE IS NOW

HEADLINE EVENTS



THE DANCE OF LIFE

A SCIENCE THEMED BHARATANYAM PERFORMANCE
BY DR. MALLIKA SARABHA'S TROUPE, DARPANA



TALK YOUR THESIS FINALE

HOSTED BY BISWA KALYAN RATH



THE MAAHAA PROJECT

LIVE BAND PERFORMANCE



THE ASTRONAUT AND HIS PARROT

SCIENCE FICTION MOVIE SCREENING

IN CONVERSATION WITH
ARATI KADAV & ALI FAZAL



ELSEWHERE IN INDIA

SCI-FI THEMED
ELECTRONIC MUSIC AND VISUAL PERFORMANCE BY

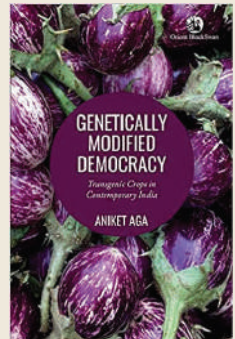
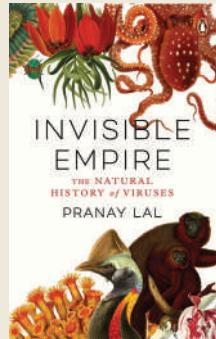
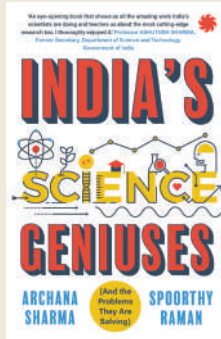
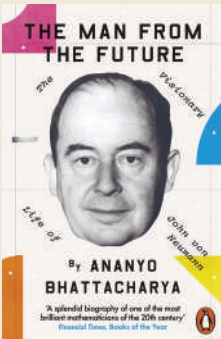
MURTHOVIC & THIRUDA



ROCKET BOYS

PANEL DISCUSSION
WITH THE MAKERS OF THE MOVIE

EXPERIENCE BOOK TALKS BY THE AUTHORS OF



ISF 2023 DAY-WISE SCHEDULE

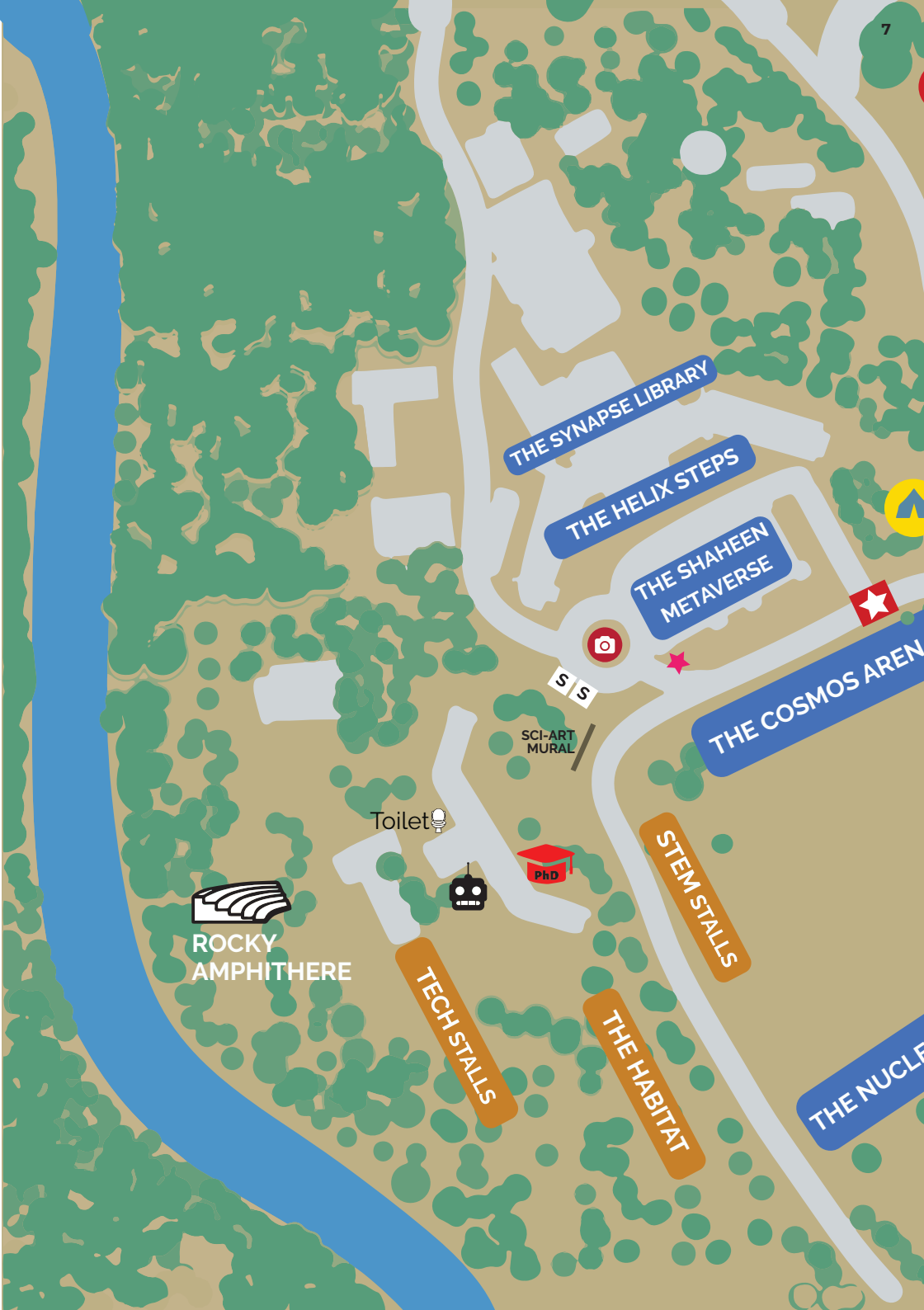
	Nucleus Arena Age: 14 years and above	Cosmos Arena Age: 14 years and above	Helix Library Steps Age: 14 years and above	Shaheen Metaverse Age: 14 years and above
9:00 AM	Registration			
10:00 AM - 11:00 AM	TALK Unlocking the secrets of the universe: a walk through a particle accelerator Archana Sharma,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

SCIENCE INTERACTIVE ZONE SCHEDULE

	Quantum (S)parks	Biosphere	Mini Auditorium	Laboratory	Classroom 1	Classroom 2
9:00 AM	Registration					
10:00 AM - 11:00 AM			<p>PhD Program Booth</p> <p>Workshop on Science Writing & Professional Networking</p> <p>Impact Science, Cactus Communications</p> <p>Open to Masters, PhD students and researchers</p>	<p>The Global Coin Experiment by Royal Society of Chemistry</p> <p>Pre-registration required</p> <p>Age: 10-13 years</p>		
11:00 AM - 12:00 PM	<p>Space rocks! with astronomer Prof Mark McCaughrean</p> <p>Age: 8-13 years & families</p>	<p>Build Your DNA: An Origami Workshop with Bharath Atthe, Ashish Bihani and K Phanindhar</p> <p>Age: 13 years & above</p>			<p>S.T.E.A.M Idlisi: Eat to your He'Art's content</p> <p>Supriya Devarajan</p> <p>Age: 8-13 years</p> <p>Pre-registration required</p>	
12:00 PM - 01:00 PM	<p>Science Busking! Make science fun with David Price</p> <p>Ages: 13 years & above</p>	<p>InQuizitive: The ISF Science Quiz (First round)</p> <p>Age: Open to all</p>			<p>Electro-kids! Biotential Signals with UpsideDownLabs</p> <p>Pre-registration required</p> <p>Ages: 10-13 years</p>	

<p>01:00 PM - 02:00 PM</p>	<p>Ask Me Anything about AI with Sriram Raghavan Age: 8-13 years & families</p>	<p>Un-Lab: Zine making with Ipsa Jain Age: 8-13 years</p>	<p>British Council Session: iRISE Programme Open to researchers and educators (15 mins)</p>	<p>The Global Coin Experiment by Royal Society of Chemistry Pre-registration required Age: 10-13 years</p>	<p>Beyond Colored Liquids and Coats: What do Real Scientists do in the Lab? By Karishma Kaushik, Talk To A Scientist Age: 8-16 years, families, educators, parents Pre-registration required</p>
<p>03:00 PM - 04:00 PM</p>	<p>How did I make to Stanford University? with physicist Dr Vedika Khemani Age: 8-13 years & families</p>	<p>Take a breather: A walk in the park with a lung specialist! Dr Anurag Agrawal Age: 8-13 years & families</p>	<p>InQuizitive: The ISF Science Quiz (Second round)</p>	<p>Science Experiments with CSPark Pre-registration required Age: 10-13 years</p>	<p>PhD Program Booth Let's Make PhD Jhakaas Again Varun Aggarwal An interactive session to brainstorm ideas to improve the overall PhD experience in India. An invite only session (By invitation only)</p>
<p>04:00 PM - 05:00 PM</p>	<p>Science in Just A Minute (JAM) Competition Age: Open to all</p>	<p>All about robots with computer scientist Aniket Bera Age: 8-13 years & families</p>			



THE SYNAPSE LIBRARY

THE HELIX STEPS

THE SHAHEEN METAVERSE

THE COSMOS ARENA

STEM STALLS

THE HABITAT

THE NUCLE

TECH STALLS

ROCKY AMPHITHERE

SCI-ART MURAL


Toilet

PhD







VENUE MAP


 Registration Desk


 Food Stalls


 General Stalls


 Speakers Lounge

 Robotics Zone

 Photo Exhibition

 DoScience installations

 PhD Program Booth

 Parking



Toilet 

ISF 2023 DAY-WISE SCHEDULE

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	
Registration							
9:00 AM	Registration						
10:00 AM - 11:00 AM	<p>PANEL DISCUSSION</p> <p>Beyond doing science as a virtue: What should India's science ambitions be?</p> <p>Varun Aggarwal (FAST India), K Vijay Raghavan (NCBS Bangalore), Thomas Barlow (Barlow Advisory Group), Deepanwita Chattapadhyay (IKP Knowledge Park), Sriram Raghavan (IBM Research AI)</p>						
11:00 AM - 12:00 PM	<p>TALK</p> <p>From Machine Learning to Robots - How is medicine using technology?</p> <p>Anurag Agrawal, Ashoka University, India</p>	<p>PANEL DISCUSSION</p> <p>Climate change: Is it science, policy or behavioral change that will fix it?</p> <p>Iain Stewart (Royal Scientific Society), Smita Rakesh (Social Alpha), Mahesh Godi (GODI), Mukund Rajan (ECube Investment Advisors Private Limited)</p>	<p>FIRESIDE CHAT</p> <p>Space and Beyond: The NASA Experience</p> <p>Sandhya Ramesh (The Print) in conversation with NASA engineer Bidushi Bhattacharya (Astrohubs, USA)</p>	<p>TALK</p> <p>The science and magic in Indian classical music - a practical demonstration</p> <p>Debojyoti Chakraborty, CSIR-IGIB, New Delhi, India</p>			
12:00 PM - 01:00 PM	<p>TALK</p> <p>Public Health - For the people, By the people</p> <p>Abhay Bang, SEARCH Gadchiroli, India</p>	<p>PANEL DISCUSSION</p> <p>The Bollywood Spotlight on Scientists</p> <p>In conversation with the makers of the series Rocket Boys</p> <p>Mallika Sarabhai (Dancer), Siddharth Roy Kapur (Producer), Monisha Advani (Producer) Abhay Pannu (Director), Co-Hosted by Karishma Kaushik (Pune University), Maya Sharma (NDTV)</p>	<p>ISF BOOK TALK</p> <p>History Empire: The Natural History of Viruses</p> <p>Padma Priya (Suno India) in conversation with Pranay Lal, India (Author)</p>	<p>PANEL DISCUSSION</p> <p>Future of AI: Big Models or Smart Models?</p> <p>Varun Aggarwal (FAST India), Sriram Raghavan (IBM Research AI), Sumit Gulwani (Microsoft), Geetha Manjunath (Niramai.AI)</p>			
01:00 PM - 02:00 PM	<p>PANEL DISCUSSION:</p> <p>Gene editing: Playing God or saving the planet?</p>	<p>TALK</p> <p>Earth Science for Planetary and Human Wellbeing</p>	<p>ISF BOOK TALK</p> <p>Genetically Modified Democracy</p>	<p>FIRESIDE CHAT</p> <p>Art and Humour to the (wildlife) rescue!</p>			

22 JANUARY, SUNDAY

<p>Subhra Priyadarshini (Nature India), Anurag Aggarwal (Ashoka University), Subhash Lingareddy (MapMyGenome), Debjyoti Chakravarty (CSIR-IGIB, New Delhi)</p>	<p>Iain Stewart, Royal Scientific Society, Jordan</p>	<p>Sayantana Datta (Krea University, India) in conversation with Aniket Aga (Author; Ashoka University, India)</p>	<p>Siuli Mitra (CMC Vellore) in conversation with Arjun Srivathsa (NCBS, India) and Rohan Chakravarty (Green Humour, India)</p>
<p>PANEL DISCUSSION India, where are your books on science? Launch of the FAST India Science Book Fellowships Maya Sharma (NDTV), Pranav Lal (Author), Jahnavi Phalkey (Science Gallery Bengaluru), Ananyo Bhattacharya (Author), Devangshu Datta (Juggernaut Books)</p>	<p>TALK Mush-room for discussion - How does your brain respond to psychedelics? Vidita Vaidya, TIFR Mumbai, India</p>	<p>FIRESIDE CHAT Science In The Corridors of Power Anjana Seshadhri (FAST India) in conversation with Thomas Barlow (Barlow Advisory Group, Australia)</p>	<p>TALK Hyderabad Kaiku? Making of a science city Dinesh C. Sharma, Author & Journalist, India</p>
<p>TALK Saving lives with Artificial Intelligence Geetha Manjunath, Niramai.AI, India</p>	<p>PANEL DISCUSSION Space Startups galore: Can they help India realize its space dreams? Sandhya Ramesh (The Print), Bidushi Bhattacharya (AstroHub), Rohan Ganapathy (Bellatrix Aerospace), Rahul Seth (Antler), CVS Kiran (Skyroot)</p>	<p>FIRESIDE CHAT Eye to Eye In conversation with Dr Subhadra Jalali (LYPEI, Hyderabad)</p>	<p>FILM SCREENING AND FIRESIDE CHAT The Astronaut and the Parrot Film screening and discussion with Arati Kadav (filmmaker)</p>
<p>PANEL DISCUSSION Living in the metaverse: Life, ethics, work and adventure Kuldeep Singh (SHL), Aniket Bera (Purdue University), Jaya Baloo (Avast Software), Rachel Mason (Science Made Simple, UK)</p>	<p>TALK The Secret Lives of STEM Cells Jyotsna Dhawan, CSIR-CCMB, India</p>	<p>AUDIENCE INTERACTION Ask Us Anything: Life of a Scientist Karishma Kaushik (Savitribai Phule Pune University), Aniket Bera (Purdue University), Mark McCaughean (ESA), James Evans (UChicago), Vidita Vaidya (TIFR Mumbai)</p>	<p>TALK Brain in Seizures: Decoding Epilepsy Manjari Tripathi, AIIMS, New Delhi</p>
<p>5:00 - 5:30 PM</p>	<p>Closing Ceremony & Prize Distribution</p>		
<p>5:30 - 6:30 PM</p>	<p>Musical performance by The Maahaa Project Fusing traditional storytelling and soulful music</p>		

SCIENCE INTERACTIVE ZONE SCHEDULE

Quantum (S)parks	Biosphere	Mini Auditorium	Laboratory	Classroom 1	Classroom 2
Registration					
9:30 AM					
10:00 AM - 11:00 AM		InQuizitive: The ISF Science Quiz (Final round)		<p>Hackathon: Innovation in eye care</p> <p>Age: 20 years and above (college students/start-ups)</p> <p>Pre-registration required</p>	
11:00 AM - 12:00 PM	<p>Science on a Plate – Healthy Home, Food & Family</p> <p>Science Made Simple, UK and NIN Scientists, Hyderabad, India</p> <p>Age: Open to all</p>		<p>The Global Coin Experiment by Royal Society of Chemistry</p> <p>Pre-registration required</p> <p>Age: 10-13 years</p>		
12:00 PM - 01:00 PM	<p>Making Science Fun and Simple</p> <p>by David Price</p> <p>Exploring the use of street performance techniques to make our science come alive</p> <p>Age: Open to all</p>	<p>So you think you are funny!</p> <p>ISF Science Comedy Competition</p> <p>Age: Open to all</p>			<p>Aryabhata Square</p> <p>Roots algorithm</p> <p>by R Gopu</p> <p>Age: 14 years and over</p>

<p>01:00 PM - 02:00 PM</p>	<p>Draw me some science: Art competition Age: Open to all</p>	<p>Draw me some science: Art competition Age: Open to all</p>	<p>The Global Coin Experiment by Royal Society of Chemistry Pre-registration required Age: 10-13 years</p>	<p>PhD Program Booth Out of the lab: Getting your science into society David Price (Science Made Simple), Dr. Pially Ghanekar (Cell Savy Group), Dr. Shannon Olson (ECHO Network) Open to Masters and PhD students and researchers</p>	<p>Understanding the genetics of your unique fingerprints with Chandana Basu, BHU Age: 13 years and above</p>
<p>02:00 PM - 03:00 PM</p>	<p>Workshop Q&A Philosophy of Science Through Zines Ipsa Jain (Srishti Manipal Institute of Art, Design and Technology) & Jyotsana Dhawan</p>	<p>Communication through Radio Waves with Ashhar Farhan (Exseed Space Innovations Ltd.) Age: 10 years and above</p>	<p>Beyond Gene Editing: How FELUDA meets CRISPR? with Debojyoti Chakraborty Pre-registration required Age: 10-13 years</p>	<p>Brain Computer Interfaces with Neurostellar Pre-registration required Age: 10-13 years</p>	<p>Robo RXN - AI for chemical synthesis (Online)</p>
<p>03:00 PM - 04:00 PM</p>	<p>Ask Me Anything about Computer Coding with Sumit Gulwani Age: 8-13 years & families</p>	<p>PhD Program Booth Learning to Earn : The STEM Focus By IKP Knowledge Park Open to UG PG students and researchers</p>	<p>Splitting Light with Chemist Pranav R. Shirhatti Age: 8-13 years & families</p>	<p>Brain Computer Interfaces with Neurostellar Pre-registration required Age: 10-13 years</p>	<p>Robo RXN - AI for chemical synthesis (Online)</p>
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STEM BOOTHS AT ISF 2023



- The Bug station**
CSIR – CCMB, Hyderabad
 Learn about the diversity of infectious diseases across humans and plants through fun demonstrations and activities.
- TIFR Hyderabad**
 Fun games and activities showcasing institute's interdisciplinary approach in science and in understanding the world we live in.
- Multiverse of the Eye**
LVPEI, Hyderabad
 This "experience centre" by LVPEI will allow you to enter the multiverse of the eye to help understand how human vision works. It includes 3D models of the eye, optical illusions, stimulation of eye disorders and various cutting-edge vision technologies.
- DBT – Centre for DNA Fingerprinting and Diagnostics (CDFD)**
 Basics of DNA Fingerprinting and DNA Diagnostics and their applications in an easy to understand fun format.
- About Medicines Small and Large**
Dr Reddy's Institute of Life Sciences
 In this exhibit you will be able to see Visual Exhibit of a Flow Chemistry Setup and Hands-on CRISPR based Activity in Molecular Biology
- Genomics Simplified**
MapMyGenome
 A display of preventive genomics products, DNA extraction workshop, and games like crosswords and word search. Attendees can participate in online games too by scanning the QR code.
- Dr Reddy's Foundation**
 Learn about how DRF is educating and skilling young people to fast track them towards better livelihood options.
- Never ever scienceless**
Telangana Social Welfare Residential Educational Institutions Society (TSWREIS)
 The TSWREIS students at this booth have made an effort to recognise the issues in their immediate environment and have attempted to apply science to solve them. The students create simple, preliminary prototypes with the fewest resources at their disposal.
- Solution Squad**
Telangana Tribal Welfare Residential Educational Society (TTWREIS)
 This booth's displays are extremely related to the theme, which is "Science in everyday life." Students from TTWREIS have created prototypes to address common issues they see in their own communities using only the most basic resources.
- Hyderabad Public School, Begumpet**
 HPS students and teachers will be showcasing exciting STEM projects, exhibitions, and games at their booth.
- NeuroTechX India**
 NeuroTechX will be demonstrating visitors their brain waves visually using Open BCI Headset which will give them glimpse of the what BCI technologies are and how work
- Wellness pod**
Neurostellar Private Limited
 This booth will host a demonstration of their wearable brain sensing technology that helps users quantify the levels of focus and relaxation with real time feedback on the same using sounds.
- Lamakaan Amateur Radio Club, Hyderabad**
 At this booth, learn about how amateur radio works; how radio communication helps us in a wide variety of real world applications
- Luma World**
 Play fun STEM games, take part in a beach clean up simulation, and buy these games if you like them.
- Neuroscience for all – Innovate with India**
 Fun hands-on science experiments and demonstrations related to Neuroscience and electrophysiology and much more
- Aavishkaar**
 A Robotics, Innovation and Coding Experience Zone, his would include arenas and Workation where children will be able to experience Robotics, AI, IoT and Coding first hand.
- AI Dance**
 In this awesome tech exhibit AI will grade you based on how you enact dance steps that are shown on the screen
- AI art**
 In this fun technology driven exhibit AI will draw based on your description and will help you get out of artist's block by completing art or converting art or suggesting art based on initial sketch
- AuthorCafé Digital Infrastructure: Technology solutions to research management problems**
 Get to know more about AuthorCafé, a company that designs and develops digital workflow solutions to a number of critical problems where manual efforts become more than rote.
- Cactus Communications**
 Learn about various services provided by Cactus Communications for the student and research community.
- Polygon Geospatial**
 Experience the joy of flying drones in this fascinating display by Polygon Geospatial!
- Microsoft**
 Catch tech giant Microsoft conduct an R&D showcase of cutting edge technology!
- CSpark**
 Immersive science experiments with DIY kits

EXHIBITS AND INSTALLATIONS

DOSCIENCE INSTALLATIONS

BYOE BY SCIENCE GALLERY BENGALURU

'BE'LIVING SCIENCE BY IPSA JAIN AND DEBANSHU BHAUMIK

SCIENCE IN FOCUS - PHOTO EXHIBITION



THANK YOU FOR VISITING ISF 2023



PLEASE SCAN
THE QR CODE TO
**SHARE YOUR
FEEDBACK**



ISF THANKS ITS PARTNERS FOR THEIR HELP AND SUPPORT

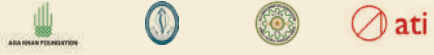
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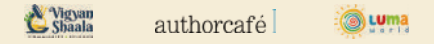
KNOWLEDGE PARTNERS



ECOSYSTEM PARTNERS



FUNDERS



OUTREACH PARTNERS



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