

# India Science Festival 2021

## India Science Month Online (ISMO 2021)

3-31 January 2021



The **Foundation for Advancing Science and Technology India (FAST India)** is a non-profit institution of excellence working to enable the transformation of India's science and technology ecosystem through research and policy, government support, institutional strengthening, corporate sector engagement, and science communication.

The **India Science Festival (ISF)** is FAST India's flagship science communication event, which has emerged as the country's largest non-governmental platform for public celebration of science & technology!

**ISF aims to make science accessible, engaging and fun for all!**

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### Healthcare

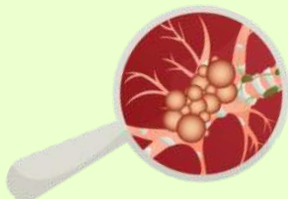
#### Seeing is believing: Imaging cancer progression inside our body

##### Speaker

Abhijit De  
ACTREC, India

Jan 9, 2021

6:15 pm - 7:00 pm



Talks

#### COVID 19 - Masks, Vaccines and Lockdowns: Rights or Wrongs?

##### Panelists

Amar Jesani, Richard Cash, Jennifer Leaning,

##### Moderator

Satchit Balsari

Jan 10, 2021

8:00 pm - 9:00 pm



Panel Discussions

#### Getting everyone an ambulance in time: How math can help!

##### Speaker

Lavanya Marla  
UIUC, USA

Jan 19, 2021

8:15 pm - 9:00 pm



Talks

#### Science, public health, literature: What happens when you bring them together?

##### Speaker

Sunetra Gupta  
Oxford, UK

Jan 15, 2021

8:00 pm - 8:45 pm



Talks

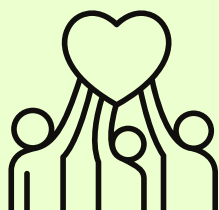
#### Arogya Swaraj: Achieving health freedom by empowering individuals and communities

##### Speaker

Abhay Bang  
SEARCH, India

Jan 16, 2021

6:00 pm - 7:00 pm



Talks

#### Ancient Indian medicine: Nirvana or no good - how do we find?

##### Panelists

Shantanu Abhyankar, P Rammanohar,  
Ajit Kulkarni, Pulok Mukherjee

##### Moderator

Anuradha Varanasi

Jan 16, 2021 7:00 pm - 8:00 pm



Panel Discussions

#### Modern Biology (Panel Discussion in association with Tata Institute for Genetics and Society)

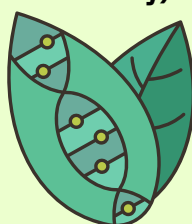
##### Panelists

Amita Sehgal, Venkatesan Sundaresan,  
Sonia Sen, Vivek Malhotra

##### Moderator

Suresh Subramani

Jan 16, 2021 9:00 pm - 10:00 pm



Panel Discussions

#### Healthcare for a billion: Research in India, for India

##### Panelists

Ravdeep Singh Anand, K Srinath Reddy,  
Ramesh Hariharan, Vidur Mahajan

##### Moderator

Kavya Narayana

Jan 16, 2021 6:00 pm - 7:00 pm



Panel Discussions

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### Healthcare

#### Mental Health (Panel Discussion in association with Librum)

##### Panelists

Shekhar Saxena, Neha Kirpal

Jan 17, 2021

7:00 pm - 8:00 pm



Panel Discussions

#### What bio-robots teach us about fighting diseases

##### Speaker

Ritu Raman

MIT, USA

Jan 22, 2021

7:00 pm - 7:45 pm



Talks

#### Facebook and Health: Understanding public health through social media data!

##### Speaker

Rumi Chunara

UIUC, USA

Jan 24, 2021

7:15 pm - 8:00 pm



Talks

#### India Alliance: Advancing Discovery and Innovation to Improve Health

##### Speaker

Dr. Vasan Sambandamurthy

CEO, DBT/Wellcome Trust India Alliance

Jan 29, 2021

7:00 pm - 7:15 pm



Talks

#### Superbugs - What Africans have to fear and how we can contain them

##### Speaker

Iruka Okeke

Univeristy of Ibadan, Nigeria

Jan 30, 2021

5:30 pm - 6:15 pm



Talks

### Robotics

#### Will 21st Century Robots Partner With Humans?

##### Speaker

Rodney Brooks

MIT, USA

Jan 3, 2021

9:10 pm - 10:00 pm



Talks

#### Training robots to talk to humans, teaching humans to talk to robots

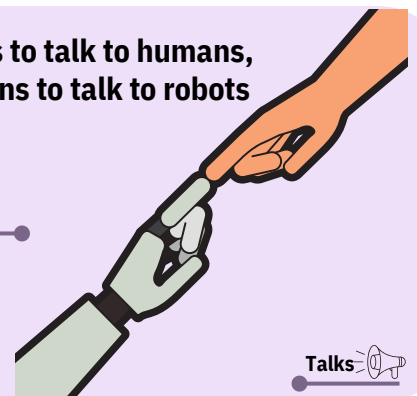
##### Speaker

Emily Cross

University of Glasgow, UK

Jan 17, 2021

4:15 pm - 5:00 pm



Talks

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### Robotics

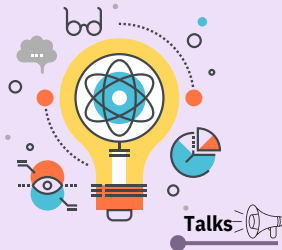
#### Mobility Redefined: Innovations that Enable Independence

##### Speaker

**Sujatha Srinivasan**  
IIT, India

Jan 17, 2021

5:00 pm - 5:45 pm



Talks

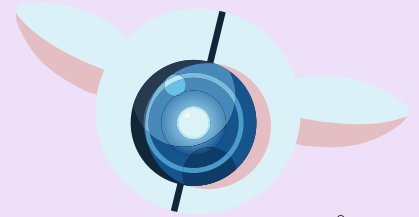
#### What can robots see and what can they not?

##### Speaker

**Peter Corke**  
QUT, Australia

Jan 22, 2021

4:00 pm - 4:45 pm



Talks

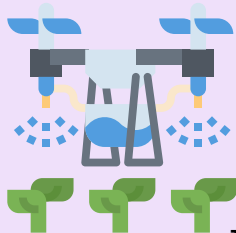
#### Farming Robots: Swarm of robots to revolutionize agriculture

##### Speaker

**Girish Chowdhary**  
UIUC, USA

Jan 24, 2021

8:15 pm - 9:00 pm



Talks

#### Making robots fly: Navigating the hardest terrains

##### Speaker

**Sebastian Scherer**  
CMU, USA

Jan 31, 2021

6:15 pm - 7:00 pm



Talks

### Space

#### The European Space Agency: Once explorers, always explorers

##### Speaker

**Mark McCaughrean**  
ESA, Netherlands

Jan 5, 2021

7:00 pm - 7:45 pm



Talks

#### Life beyond Earth: What makes a planet habitable?

##### Speaker

**Dimitra Atri**  
NYUAD, UAE

Jan 10, 2021

6:15 pm - 7:00 pm



Talks



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### Space

#### Democratizing space - How Africa launched its first nanosatellite to space

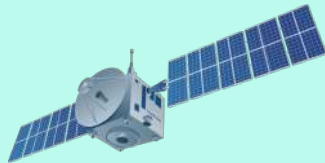
##### Speaker

Robert Van Zyl

FSATI, South Africa

Jan 16, 2021

5:00 pm - 5:45 pm



Talks

#### A talk with Anita Sengupta: The engineer who designed the parachute to land Curiosity on Mars!

##### Speaker

Anita Sengupta

USC/Former NASA, USA

Jan 19, 2021

9:00 pm - 9:45 pm



Talks

#### The next space revolution: Living and working in space

##### Speaker

Erika Wagner

Blue Origin, USA

Jan 23, 2021

7:15 pm - 8:00 pm



Talks

#### Aliens, Astrobiology and Exoplanets - In search for life in space

##### Speaker

Daniel Angerhausen

ETH Zurich, Switzerland

Jan 26, 2021

7:15 pm - 8:00 pm



Talks

#### Making your imprint on Space : How everyone can become a Space Scientist

##### Panelists

Bidushi Bhattacharya, Shanmuga Subramanian,  
Rishabh Nakra, Srimathy Kesan

##### Moderator

Sonal Katyal

Jan 29, 2021

7:15 pm - 8:00 pm



Panel Discussions

#### An evening with ex-NASA astronaut, Tony England!

##### Speaker

Anthony England

UMDearborn, USA

Jan 31, 2021

9:00 pm - 9:45 pm

Talks

### General Science

#### Science and Sports - Science empowering parathletes

##### Panelists

Deepa Malik, Satyapal Singh, Manish Rana

##### Moderator

Shantanu Srivastava

Jan 8, 2021

7:00 pm - 8:00 pm



Panel Discussions

#### Can numbers and equations help tame COVID-19?

##### Speaker

Lav Varshney

UIUC, USA

Jan 09, 2021

7:15 pm - 8:00 pm



Talks

# India Science Festival 2021

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### General Science

**Can science fascinate our nation, like cricket or Bollywood does?**

**Panelists**

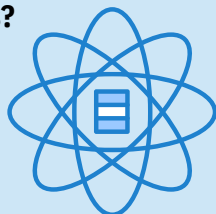
Usha Zehr, Varun Aggarwal, Manish Jain

**Moderator**

Barkha Dutt

Jan 9, 2021

8:00 pm - 9:00 pm



Panel Discussions

**Making the world around us intelligent - Internet of things**

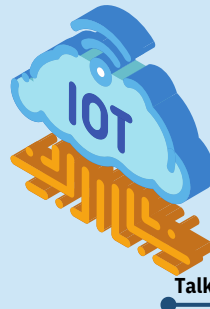
**Speaker**

Sanjay Sarma

MIT, USA

Jan 10, 2021

7:15 pm - 8:00 pm



Talks

**Can science yield economic output?**

**Panelists**

Vandana Sarda, Premnath Venugopalan, Vijay Chandru, Varun Aggarwal

**Moderator**

Amitabh Shrivastava

Jan 12, 2021

8:00 pm - 9:00 pm



Panel Discussions

**Getting adversarial AI to secure us from hackers**

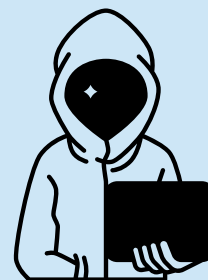
**Speaker**

Una-May O'Reilly

MIT, USA

Jan 16, 2021

8:15 pm - 9:00 pm



Talks

**Uncovering the dark secrets harboured by our universe**

**Speaker**

Priyamvada Natarajan

Yale, USA

Jan 17, 2021

8:15 pm - 9:00 pm



Talks

**Role of private universities in building India's research ecosystem : Will India have its own Stanford?**

**Panelists**

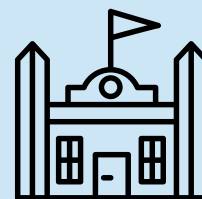
Sandeep Sancheti, Sunder Ramaswamy, Philip Altbach, Rupamanjari Ghosh

**Moderator**

Philip Altbach

Jan 24, 2021

6:15 pm - 7:00 pm



Panel Discussions

**Deeptech: The next frontier for Indian startups**

**Panelists**

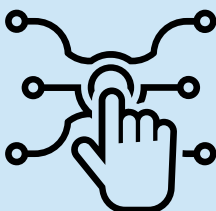
Sourabh Gupta, Awais Ahmed, Geetha Manjunath, Siraj Dhanani

**Moderator**

Nistha Tripathi

Jan 30, 2021

8:00 pm - 9:00 pm



Panel Discussions

**How COVID also infected AI models: Why did they fail?**

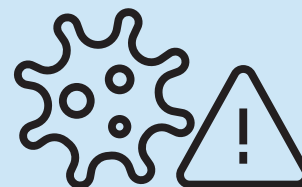
**Speaker**

Bitasta Das

IISc, India

Jan 23, 2021

6:15 pm - 7:00 pm



Talks

# India Science Festival 2021

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### General Science

#### Bias in STEM - Does science have a single shade?

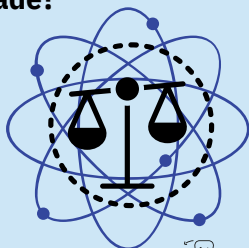
##### Panelists

Ansley Booker, Sandhya Vishweshariah,  
Satendra Singh, Bittu Rajaraman

##### Moderator

Suraj Yengde

Jan 31, 2021 8:00 pm - 9:00 pm



Panel Discussions

#### How to get ready in skills of the future & secure future jobs

##### Panelists

Mr. Amit Aggarwal, Sekar Viswanathan,  
Sai Prakash Leo Muthu, Vaishali Phatak

Jan 31, 2021 7:00 pm - 8:00 pm



Panel Discussions

### SCICOMM

#### Taal Se Taal Mila - Bringing Scientists and Entrepreneurs Together

##### Panelists

Kiran Mazumdar-Shaw, Devi Shetty,  
Prof. K Vijay Raghavan

##### Moderator

Tarun Khanna

Jan 3, 2021 8:00 pm - 9:00 pm



Panel Discussions

#### Introducing Science Gallery Bengaluru's next exhibition CONTAGION - Exploring the phenomenon of the transmission of emotions, behaviours, and diseases

##### Speaker

Janhavi Phalkey  
Director, Science Gallery Bengaluru, India

Jan 3, 2021 9:00 pm - 9:10 pm



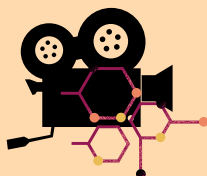
Talks

#### The Man Who Knew Infinity- Representing STEM in Literature and Cinema

##### Speakers

Robert Kanigel (Science Biographer)  
and Ken Ono (Mathematician)  
Director, Science Gallery Bengaluru, India

Jan 17, 2021 9:00 pm - 9:45 pm



Talks

#### Auria Kathi: An AI artist on the cloud!

##### Speaker

Sleebe Paul  
Perleybrook Labs LLC, India

Jan 23, 2021

5:30 pm - 6:15 pm



Talks

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### General Science

#### Joining the dots: Science through tribal art and folk songs

##### Speaker

Bitasta Das  
IISc, India

Jan 23, 2021

6:15 pm - 7:00 pm



Talks

#### Music of Science, Science of Music: The play of science and art

##### Panelists

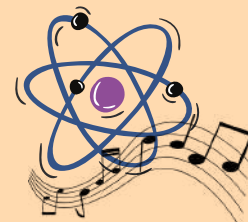
Shantala Hegde, Vinod Vidwans,  
Andreas Bergsland, Manasi Kulkarni

##### Moderator

Anurag Tagat

Jan 24, 2021

5:30 pm - 6:15 pm



Panel Discussions

#### An interview with the author of the Sci-Fi book, the Bird Farm

##### Speaker

Varun Aggarwal  
Founder, India Science Fest, India

Jan 30, 2021

6:15 pm - 7:00 pm



Talks

#### Science for ALL: Archiving Science and bringing it to the public

##### Panelists

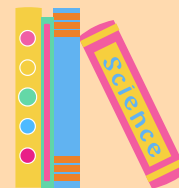
Venkat Srinivasan, Sarah Iqbal

##### Moderator

Ananya Dasgupta

Jan 30, 2021

7:00 pm - 8:00 pm



Panel Discussions

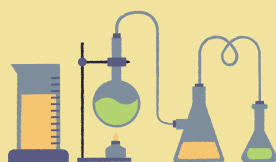
### Workshops & Demonstrations

#### Live Lab Tour with STRAND Life Sciences

##### STRAND Life Sciences

Jan 9, 2021

11:00 am - 12:00 pm



Demonstrations

#### Science Illustrations with Ipsa Jain

##### Ipsa Jain

Jan 9, 2021

12:00 pm - 1:00 pm



Workshops



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### Workshops & Demonstrations

#### Postcard Program and Space Exploration with Club for the Future

Club for the Future

Jan 10, 2021

6:15 pm - 7:00 pm



Workshops

#### Educators 2020 : Rethinking conversations on colourism with Jyoti Gupta

Jyoti Gupta

Jan 17, 2021

11:00 am - 12:00 pm



Workshops

#### Science Storytelling with Usha Venkatraman

Usha Venkatraman

Jan 17, 2021

12:00 pm - 1:00 pm



Workshops

#### Science Made fun with Wonderlab

Wonderlab

Jan 23, 2021

12:00 am - 1:00 pm

Ages: 3-6



Workshops

#### Exploring Phytopia with Science Gallery Bengaluru

Science Gallery Bengaluru

Jan 24, 2021

11:00 am - 1:00 pm



Workshops

#### SciFari - Exploring science through stories with Usha Venkatraman

Usha Venkatraman

Jan 30, 2021

12:00 am - 1:00 pm



Demonstrations

#### Science Made fun with Wonderlab

Wonderlab

Jan 31, 2021

12:00 am - 1:00 pm

Ages: 7-10



Workshops

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## Games & Quizzes

Jan 8, 2021  
5:45 pm - 7:00 pm



Quiz

Quizzes

Jan 10, 2021  
12:00 pm - 1:00 pm

Drawing Competition



Games

Jan 15, 2021  
6:00 pm - 7:15 pm



Science Pictionary

Games

Jan 22, 2021  
4:45 pm - 6:00 pm

JAM



Games

Jan 15, 2021  
6:00 pm - 7:15 pm



Science Pictionary  
Final Round of Science Pictionary

Games

Jan 29, 2021  
5:30 pm - 7:00 pm

Model Making



Games

Jan 31, 2021  
1:00 pm - 2:00 pm



Drawing Competition

Games

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India Science  
Festival



@IndSciFest



@indiasciencefest



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[www.indiasciencefest.org](https://www.indiasciencefest.org)



[indiasciencefestival@fast-india.org](mailto:indiasciencefestival@fast-india.org)