

Dr. Sarabhai started a project for the fabrication and launch of an Indian Satellite. As a result, the first Indian satellite, Aryabhata, was put in orbit in 1975 from a Russian Cosmodrome.

Dr. Sarabhai was interested in science education and founded a Community Science Centre at Ahmedabad in 1966. Today, the Centre is called the Vikram A Sarabhai Community Science Centre.

The admission to the conference is through invitation on behalf of the organising committee. We have the pleasure of inviting you as a delegate to the conference. In case you are not able to attend the conference you may like to depute your associate.

Kindly confirm your participation by filling the registration form and return it on or before 10 September 2019 to SHIVAPRASAD KHENED, Conference Convener & Director, Nehru Science Centre (NSC), Worli, Mumbai 400018 on an e-mail to director@nehrusciencecentre.gov.in or ncsc1997@gmail.com. Your participation will greatly enrich the academic programme of this festival.

With kind regards,

Yours Sincerely

SUHAS B NAIK-SATAM, General Secretary, NCSC

## Organising Council

- **A P JAYARAMAN**, Chairman, NCSC
- **A P DESHPANDE**, Immediate past Chairman, NCSC
- **SHIVAPRASAD KHENED**, Convener, Director, NSC, Mumbai
- **RAVI SHANKAR**, Head, Public Awareness Division, DAE
- **Dr BALASUBRAMANIAN V**, Director of NES and SVB Group
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- **PARUL R SHETH**, Managing Committee Member, NCSC
- **UMESH KUMAR RUSTAGI**, Curator 'F' & Head, Education Cell, NSC, Mumbai
- **SUHAS B NAIK-SATAM**, General Secretary, NCSC

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Chairman,  
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Science Communicators

**SHIVAPRASAD KHENED**  
Director,  
Nehru Science Centre  
(NSC), Mumbai

**Dr. R. VARADARAJAN**  
Founder Director  
National Education Society and  
Saraswathi Vidya Bhavan

National Conference Secretariat

**SHIVAPRASAD KHENED**,  
Conference Convener & Director  
Nehru Science Centre (NSC), Worli, Mumbai 400018

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# National Conference on India in Space & Nuclear Energy: Achievements & Challenges

## A Centenary Tribute to Visionary Dr. Vikram A Sarabhai



on the occasion of his Birth Centenary Year

Jointly organised by  
**Nehru Science Centre**, Mumbai  
National Council of Science Museums (NCSM)  
**National Centre for Science Communicators (NCSC)**  
&  
**National Education Society** along with  
**Saraswathi Vidya Bhavan**

Supported by  
**Department of Atomic Energy**  
&  
**Indian Space Research Organisation**

**Venue:**  
At the Auditorium of  
**Nehru Science Centre**  
Dr. E. Moses Road, Worli  
Mumbai 400018

Date:  
**16 September 2019**  
Time:  
**9:30 am to 5:00 pm**







## Brief outline of the National Conference on India in Space & Nuclear Energy: Achievements & Challenges

India today is considered as one of the leading countries in the fields of space and nuclear research, the foundations of which were led by Dr. Homi Bhabha and Dr. Vikram Sarabhai the legendary visionary nuclear and space scientists of India. This year happens to be the centenary of Dr. Sarabhai and as we commemorate this momentous occasion, it's time to look back and look ahead.

The vision of the Department of Atomic Energy is to empower India through technology, creation of more wealth and providing better quality of life to its citizen. This is to be achieved by making India energy independent, development and deployment of nuclear and radiation technologies and their applications in Agriculture, Food, Healthcare, Industry, Hydrology etc., technologies for a better cleaner environment, advanced technologies etc.

The Indian Space Programme has come a long way from the early sounding rockets that were introduced in the mid-1960s to the current stage where the Indian space scientists can now proudly rub shoulders with scientists from NASA and European Space Agency. Our achievements, which happen at frugal costs, are lauded across nations. We have been able to achieve the current success in both nuclear and space research primarily because of the strong foundations, which were laid by the visionaries like Sarabhai.

As we commemorate the centenary of this great visionary, it's time to look back and look ahead. It is in this context that the Nehru Science Centre (National Council of Science Museums), The National Education Society along with Saraswathi Vidya Bhavan and the National Centre for Science Communicators have joined hands to organise a national conference on "India in Space: Achievements and Challenges" on 16 September 2019 from 9:30 am to 2:00 pm, at the Auditorium of Nehru Science Centre, Dr. E. Moses Road, Worli, Mumbai 400018

The conference while touching upon the contribution of Dr. Vikram Sarabhai, will be covered in the following five different sessions and will focus on the following topics.

- Space Technology and Development
- Nuclear Power and Nuclear Application.
- Science and Society Interaction
- Science and Technology Policies
- Strategic Technology Management

It is anticipated that about 250 Researchers, Educationists, Science Communicators and Students will participate in this conference. Students pursuing science and engineering studies will derive special benefits in being exposed to the success stories of indigenous developments, which may inspire them in research and innovation in their future career.

### About the organisers

**Nehru Science Centre (NSC), Mumbai**, is a constituent unit of the National Council of Science Museums (NCSM), an autonomous scientific institution, under the Ministry of Culture, Government of India. The NCSM has a network of 25 science museums/centres spread across the country and the Nehru Science Centre, Mumbai is its western zone head office.

### The National Education Society along with Saraswathi Vidya Bhavan

Established on 14th of April, 1963, with the noble idea of creating a new generation of educated and committed citizens, that will inherit high degree of basic values, the National Education Society along with Saraswathi Vidya Bhavan (founded in 1983) today stands tall with 62 constituent institutions imparting quality education to about 47,300 students, ranging from pre-school to post graduation level and in various professional areas.

**National Centre for Science Communicators (NCSC)** was established in January 1997. NCSC provides a platform to its members to accentuate the development of science communication in India. The Centre also provides opportunities for science communicators to explore and express their talents and creativity for better understanding of science and recognises and rewards such talents. Its members include science communicators from varied fields of communication - print media, television, radio, Planetaria, Science centers etc.

### Dr. Vikram A Sarabhai the Space visionary of India.

**Dr. Vikram A Sarabhai** is considered as the Father of the Indian space program. He was a great institution builder and established or helped to establish a large number of institutions in diverse fields including the Physical Research Laboratory (PRL) in Ahmedabad. After returning from Cambridge to an independent India in 1947, he persuaded charitable trusts controlled by his family and friends to endow a research institution near home in Ahmedabad. Thus, Vikram Sarabhai founded the Physical Research Laboratory (PRL) in Ahmedabad on November 11, 1947. Vikram Sarabhai served at PRL from 1966-1971.

He was also the Chairman of the Atomic Energy Commission. He along with other Ahmedabad-based industrialists played a major role in the creation of the Indian Institute of Management, Ahmedabad.

The establishment of the Indian Space Research Organization (ISRO) was one of his greatest achievements. He successfully convinced the government of the importance of a space programme for a developing country like India.

Dr. Homi Jehangir Bhabha, widely regarded as the father of India's nuclear science program, supported Dr. Sarabhai in setting up the first rocket launching station in India. This centre was established at Thumba near Thiruvananthapuram on the coast of the Arabian Sea, primarily because of its proximity to the equator. After a remarkable effort in setting up the infrastructure, personnel, communication links, and launch pads, the inaugural flight was launched on November 21, 1963 with a sodium vapour payload.

As a result of Dr. Sarabhai's dialogue with NASA in 1966, the Satellite Instructional Television Experiment (SITE) was launched during July 1975 - July 1976 (when Dr. Sarabhai was no more).





# National Conference on India in Space & Nuclear Energy:

Achievements and Challenges  
A Centenary Tribute to Visionary

■ DR. VIKRAM SARABHAI ■

On the occasion of his  
Birth Centenary Year

VENUE: NEHRU SCIENCE CENTRE, MUMBAI

16TH SEPTEMBER 2019

ENTRY: BY INVITATION

## INVITED SPEAKERS



**Ms. Mallika Sarabhai**  
India's leading dancer  
and choreographer



**Dr. R. Chidambaram**  
Former Principal Scientific  
Advisor, Govt. of India



**A.S. Kiran Kumar**  
Former Chairman, Indian  
Space Research Organization



**Shri. Amitabh Kant**  
Chief Executive Officer (CEO),  
NITI Ayog



**Dr. Y.S. Rajan**  
Former Distinguished Professor,  
Space Research Organization



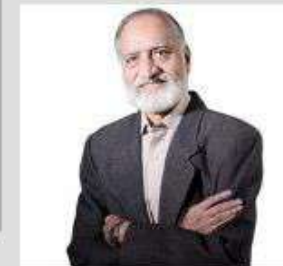
**Dr. Srikumar Banerjee**  
Chancellor, Homi Bhabha  
National Institute, Mumbai



**Dr. Ashok Dalwai**  
IAS Chief Executive Officer (CEO)  
National Rainfed Authority



**Dr. A.P. Jayaraman**  
Retired Senior Nuclear Scientist &  
Former head of Media Relation, BARC



**Dr. Kiran Karnik**  
Former Chairman, NASSCOM



**Mrs. Sudha Vasant  
Gowarikar**

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