

## Monthly Descriptive Report of Programmes and Activities organized at Nehru Science Centre, Mumbai for the month of January, 2023

### NEHRU SCIENCE CENTRE, MUMBAI

#### Sci-Birthday

During this month 01 science birthday was organized at the Centre. On 15.01.2023, 30 children along with parents joined the celebration. They enjoyed the 3D show, Motion Simulator show, Science on Sphere & Science Demonstration show.

#### Inter-school Science Quiz Contest - Preliminary Round (English & Marathi)

The preliminary round of English and Marathi medium quiz was conducted on 11th January 2023. The Quiz was inaugurated by Chief Guest Rtn. Sandip Agarwalla, District Governor, Rotary Club of Bombay. The Quiz covered various interesting and entertaining questions on Chemistry, Biology, Math, General Knowledge, Physics. Over 350 students and 36 teachers from both the mediums attended the preliminary round.

#### Astro-Voyage

The Centre started a new initiative this month named Astro-Voyage. The programme was held at the Centre on following dates:

Sr. No.	Date	No. of Participants
01.	08.01.2023	101
02.	14.01.2023	74
03.	15.01.2023	112
04.	21.01.2023	94
05.	23.01.2023	99
06.	28.01.2023	55
07.	29.01.2023	80

In this event participants were given guided sky observation sessions. The three-hour event consisted of a session by Dr. Anindita Mondal, Curator, Nehru Science Centre Mumbai, on basic and positional Astronomy along with some interesting facts. The session was also followed by SOS show with solar system objects and live sky observation program through telescopes. Planets: Venus, Saturn, Jupiter and Mars were also show to the participants. On 22.01.2023, the visitors observed the event Saturn-Venus Conjunction.

#### Popular Science Lectures

The Centre organized a Popular Science Lectures on following dates:

##### 1. Vagaries in Monsoon: Role of Climate Change on 16.01.2023

The Centre organized a lecture on the topic Vagaries in Monsoon: Role of Climate Change. Dr. M. R. Ramesh Kumar, Chief Scientist (Retired), Physical Oceanography Division, National Institute of Oceanography, Goa was the speaker of this lecture. The speaker discussed the role of the various Ocean Atmospheric Processes on the three important aspects of the Indian Summer Monsoon, using a suite of data sets such as in situ, satellite and Reanalysis products. Further, he also explained us the role of El Nino, La Nina, IOD etc., on the monsoon activity over the Indian Subcontinent. In all 160 students attended the programme.

## **2. Bell's theorem on 18.01.2023**

The Centre organized a hybrid lecture on the topic Bell's theorem: The Most Profound Discovery of Science. Dr. Manik Banik, Associate Professor, Department of Physics of Complex Systems, S. N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata was the speaker of this lecture. The speaker discussed the historical and philosophical background of Bell's 1964 theorem, the classical worldviews challenged by this theorem, and explained why the experiments of Aspect-Clauser-Zeilinger are worthy of the Nobel prize. Finally, he will also elaborate on how this basic theorem of quantum foundations motivates the new era of 2nd quantum revolution. In all 20 college students and 214 school students attended the lecture. The lecture was also streamed on the Facebook page of the Centre where the lecture had 64 views.

### **Mobile Science Exhibition**

The Centre organized a Mobile Science Exhibition (MSE) 'Health and Hygiene' in the govt. schools of thane and Palghar districts. Apart from the exhibition, SDL & film shows were also organized during the month.

### **Mobile Science Exhibition**

The Centre organized a Mobile Science Exhibition (MSE) in the govt. schools of Ahmednagar and Baramati districts. Apart from the exhibition, SDL & film shows were also organized during the month.

### **Sci-Mail:**

Sci-Mail for the month of January - March 2023, the quarterly membership newsletter was published, shared and uploaded on Social Media handles of the Centre. The post has been reached to 4,267 people.