

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

NEHRU SCIENCE CENTRE, MUMBAI

Package Tour

In February 1,371 package tours were organized for a total of 9,022 students, teachers & general visitors. They were given a Guided tour of the galleries, Science Odyssey, and Science on Sphere show. Science Shows were also organized for them.

Sci-Birthday

During this month 04 science birthdays were organized at the Centre. On 03.02.2023, 11.02.2023, 18.02.2023 and 26.02.2023 respectively. 30 children along with parents joined the celebration on each of the above-mentioned dates. They enjoyed the 3D show, Motion Simulator show, Science on Sphere & Science Demonstration show.

5th Innovation Festival and 32nd Western India Science Fair 2023

Western India Science Fair and Innovation Festival were organized jointly at the Centre from 01.02.2023 to 03.02.2023. The Fair and the Festival was inaugurated by Dr. Shankar V. Nakhe, Director, Raja Ramanna Centre for Advanced Technology, Indore & Chairman, Executive Committee of Nehru Science Centre, Mumbai on 01.02.2023.

The Fair was organized in collaboration with Education Department of Govt. of Maharashtra, Madhya Pradesh, Chhattisgarh, Goa, Department of Science & Technology, Rajasthan and Union territories of Daman & Diu and Dadra & Nagar Haveli. 22 students' projects and 15 teachers' projects were on display.

The 5th Innovation Festival was organized in collaboration with institutes like Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai, Centre for Development of Advanced Computing (CDAC), CSIR - National Chemical Laboratory, Pune, Department of Atomic Energy, Mumbai, Haffkine Institute for Training, Research and Testing, Parel, Homi Bhabha Centre for Science Education (HBCSE), ICAR - Central Institute on Fisheries Education, Mumbai, ICAR - Central Institute for Research on Cotton Technology, ICMR - National Institute of Virology, ICMR-National Institute for Research in Reproductive and Child Health, Parel and Tata Institute of Fundamental Research (TIFR), Mumbai and National Innovation Foundation.

Innovation Festival had a section for young innovators wherein the district level and Inspire award winning 08 students' projects from Mumbai region were invited to participate. In addition, there were projects from organizations like Sa.ku.ra—mi, Salaam Bombay Foundation and Ahmed Abdullah Garib I.T.I, Mumbai. Apart from these, the Centre also organized other activities such as Make and Take workshops, Science demonstrations, workshop on Artificial Intelligence & Robotics, workshop on Science Toy Making.

The participants of the Fair and festival were also exposed to various facilities of Nehru Science Centre during their 03 days' stay in the campus. The programmes for the participants included – Live Streaming of Green Comet, Science Odyssey show, Motion simulator, 3D shows etc.

Prize distribution and Valediction Ceremony of the Fair and festival was held on 03.02.2023, Sh. Arvind Paranjpye, Director-Planetarium, Nehru Centre, Mumbai was the Chief Guest on this event. The Centre received around 5,638 visitors in these 03 days event.

Outreach Sky Observation Programme

The Centre in collaboration with Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (CSMVS) participated in the Kalagodha Arts Festival 2023 for Sky observation programme titled 'Astro-Voyage with National Council of Science Museum – Your destination for Astro-Tourism' on 04.02.2023 and 05.02.2023. The programme was conducted in the premises of CSMVS. Visitors were shown planets like Jupiter, Venus, Saturn, Mars and Moon. 300 visitors enjoyed the Sky Observation programme.

Workshop for Underprivileged

The Centre organized a sponsored workshop for 20 underprivileged students on 17.02.2023. They were exposed to various facilities of the Centre like, SOS, 3D films show, Science Odyssey, High Voltage along with Gallery visit. The students were also given Science Toy making sessions in which they made toys like Woodpecker, Newton's Disc & Newton 3rd Law. They were also provided with refreshment and science kits.

Inter-school Science Quiz Contest

The Centre in collaboration with the Rotary Club of Bombay Pier and the Rotary Club of Bombay Queen City is organizing the much-awaited Annual Interschool Science Quiz Competition. The written elimination test of this Quiz was conducted on 11.01.2023 (For both English & Marathi medium schools). In all 173 schools participated in the written test.

The Verbal quiz rounds were conducted separately for both English & Marathi medium students. Four schools were qualified for Final rounds which were conducted on 20.02.2023 for Marathi medium schools and on 21.02.2023 for English medium schools. The Grand Finale and Valediction of the Annual Inter-school Science Quiz contest was conducted on 21.02.2023. Rtn. Dr. Rajendra Agarwal, was the Chief Guest for the Valediction Ceremony of the Inter-School Science Quiz Contest. Over 300 students from both the mediums attended the Grand Finale, Prize Distribution & Valediction programme.

National Science Day Celebrations 2023

National Science Day 2023 was celebrated at the Centre, from 22.02.2023 to 28.02.2023 to mark the well-known discovery of a great Indian Scientist Sir. C. V. Raman, by organizing the following programmes and competitions for school/college students, teachers and the general public. The theme of this year's National Science Day celebration was "Global Science for Global Wellbeing"

- **22.02.2023 - Slogan Writing Contest**
Slogan Writing Contest was organized at the Centre for registered participants on 22.02.2023. 145 participants registered for the event. The topic for the Contest was 'Science for all'. Prizes were given to the winners on the concluding day 28.02.2023 of National Science Day Celebrations.
- **22.02.2023 - New Science Demonstration**
The Centre launched a new Science demonstration on Topic 'Matter at Low pressure', where you can enjoy the dramatic behaviors of matter at low pressure. 234 students enjoyed the show and shared their positive feedback.
- **23.02.2023 - Written Science Quiz**
As a part of National Science Day Celebrations, the Centre also organized Written Quiz Contest for students from Std 7th - 10th on the topic 'Science and Technology for Human Welfare'. 72 students participated in the Written Science Quiz contest held on 23.02.2023.
- **23.02.2023 - Demonstration by CDAC**
A Demonstration cum lecture on the topic 'Online labs (OLabs)' developed by C-DAC was organized on 23.02.2023 for the students and teachers in hybrid mode. The lecture was given by Dr. B. Sasikumar, Executive Director, C-DAC, Mumbai. 296 students, teachers and parents attended the programme physically and 454 students attended the programme via Zoom. The programme was also streamed on the Facebook page of the Centre.
- **24.02.2023 - Street Play Contest**
Street Play Contest was organised at the Centre on 24.02.2023 in which 06 schools participated. The theme of play was 'Science for better life'. 06 Street Plays were performed by 60 Students. 150 visitors enjoyed the street play competition. Sh. Bharat More, who has wide theater experience and who has performed 2,500 street plays was one of the judges of this event. Sh. More shared his idea about how real street plays should be performed and educated participants with tips for street play.

- 25.02.2023 - Painting Contest**
 On 25.02.2023 Painting contest was held in 03 different categories. The topic for Category A was 'Nature around us' in which 98 students upto Std. 4th participated. For Category B topic was 'Space Tourism' in which 206 students of Std. 5th to 7th registered and for Category C the topic was 'Life on earth by 2050' in which 300 students of Std. 8th to 10th registered.
- 26.02.2023 - Giant Bubble Show**
 The participants enjoyed making bubbles of different shapes and sizes in this workshop. Students were explained the reasons behind formation of bubbles, their bursting and their change in shapes and sizes. The workshop was conducted on 26.02.2023 and 156 visitors enjoyed this workshop.
- 27.02.2023 - Astro Voyage**
 The Programme began by a Popular Science Lecture by Dr. Joe P. Ninan from TIFR, in which Dr. Ninan explained about exo-planets. The session was also followed by SOS show on exoplanet followed by sky observation program through telescopes. 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.
- 27.02.2023 & 28.02.2023 - Chalte-Chalte Quiz**
 On the spot quiz 'Chalte Chalte' was organized for the visitors of the Science Centre. The visitors were asked questions based on the theme 'Global Science for Global Wellbeing' visitors who gave the correct answers were given prizes. This quiz was conducted on 27.02.2023 & 28.02.2023. 369 Visitors participated in the event.
- 27.02.2023 & 28.02.2023 - Science Show**
 The Centre organized a Science Show on 28.02.2023 in which experiments related to pressure, air, water and liquid nitrogen were shown to the students. 230 students enjoyed the show in this 02 days event.
- 27.02.2023 & 28.02.2023 - Make and Take Workshop**
 On 28.02.2023 students participated in the make and take workshop and made 05 different types of models including Bat plane, rotocopter, butterflies, etc. 365 students participated in this Workshop
- 28.02.2023 - C. V. Raman Memorial lecture**
 The Centre organized a Popular Science Lecture on the topic 'Science for Global Welfare' by Prof. B. N. Jagtap, Former distinguished Scientist & Director, Chemical Group, BARC, Mumbai on 28.02.2023. 260 students attended the lecture in offline mode and 06 schools will be attending the lecture via Zoom.
- 28.02.2023 - Valediction and Prize Distribution**
 Prize distribution Ceremony of National Science Day Celebrations was held on 28.02.2023. Prof. B. N. Jagtap, Former distinguished Scientist & Director, Chemical Group, BARC, Mumbai was the Chief Guest of this event. Prof B. N. Jagtap, handed over the prizes to all the winners of all the Contests held as a part of National Science Day Celebrations.

Experiment Skill Test

The Centre in collaboration with Bombay Association for Science Education organized a unique programme of Experiment Skill Test for 10 registered participants of 06th to 10th std at the Centre. In the test, questions related to physics, biology and chemistry were asked to the students. The students were also given experiment set-up in which they were supposed to do experiments in the presence of experts from the Centre and TIFR. Through this programme their skill for performing the experiment and keen observation was tested.

Programmes for Pratham Education Foundation

The Centre organized a two-day sponsored programme on 25.02.2023 and 26.02.2023 for students of Pratham Education Foundation. The programmes conducted were Model Rocketry - making and launching the models with the help of solid chemical fuel and water rockets. Aeromodelling sessions in which the students were made aware of the basic principles of flight through the paper models of bat plane, Harrier, Dart plane. Workshop on Experiments with CD in which students learned different concepts of science by making toys like Newton's disk, CD Hovercraft, Balancing toy, illusions, etc using old CDs. Along with these workshops the students were also exposed to the various facilities of the Centre they were also give live Science Demonstration of Liquid Nitrogen, Science Toy Making and Colourful Chemistry. 40 students and 4 teachers enjoyed this 02-day event. 20 children participated in this workshop and made toys using CDs.

Mobile Science Exhibition

The Centre organized a Mobile Science Exhibition (MSE) 'Health and Hygiene' in the govt. schools of Palghar districts. Apart from the exhibition, SDL & film shows were also organized during the month. 6,349 students 109 teachers and 05 general visitors experience this exhibition. 13 films were also shown in this month to about 5,203 visitors. 10 SDL shows were conducted to 4,731 visitors.

Mobile Science Exhibition

The Centre organized a Mobile Science Exhibition (MSE) in the govt. schools of Ahmednagar district. Apart from the exhibition, SDL, Rotocopter Workshops & film shows were also organized during the month. 5,597 students 99 teachers and 87 general visitors experienced this exhibition.