संस्कृति मंत्रालय
भारत सरकार
Ministry of Culture
Government of India
सत्यमेव जयते

नेहरु विज्ञान केन्द्र
राष्ट्रीय विज्ञान संग्रहालय परिषद् की इकाई
संस्कृति मंत्रालय, भारत सरकार
Nehru Science Centre
A Unit of National Council of Science Museums
Ministry of Culture, Government of India

बेटी बचाओ
बेटी पढ़ाओ

Member News

Vol. 29 No. 1

SCI-MAIL

January to March 2026

Designed & Developed by

NEHRU SCIENCE CENTRE

A Unit of National Council of Science Museums
Ministry of Culture, Govt. of India
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Director's Desk

Dear Member(s),

Greetings from Nehru Science Centre (NSC) Mumbai and wish you all a very ***Happy New Year 2026****!*

Umesh Kumar Rustagi
Director NSCM

*We are glad to inform you that following our promise and past practice of always offering something new to our esteemed visitors, we have now opened a new '****Fun Science****' gallery. It is a significant development this year because it has been launched on completion of 40 years of glorious services of the Nehru Science Centre to the people of Mumbai, Maharashtra as well as tourist visitors from all over India. This gallery has several new exhibits based on artificial intelligence, supplementing and augmented reality, mathematics, information technology, mechanics, games etc.*

This gallery will be able to explain why a huge ship sinks in a stormy sea. You can test your physical as well as mental endurance in certain exhibits, while some of them will make you experience illusions. The 30 exhibits in this gallery are quite interactive and immersive. Don't forget to visit if you have not done so far. We have also added new interactive and immersive exhibits in 'Science for Children' gallery as well as in the children Science Park about which we may describe in the next edition of ***SCI-MAIL****.*

Post monsoon, the live sky observation has been started and we have announced a few events with advance booking facility. You will be able to see Sun-spots, the Moon, Saturn and a couple of Stars. In coming months Jupiter, Orion constellation, nebula etc. will also be visible. Please check the website for the schedule. Or join our channel also for faster updates.

Nehru Science Centre in association with IISER, Pune conducted a Teachers' Training Programme too and a very special Diwali Lantern making workshop. The participants had taken these lanterns along with them and everything was provided by IISER, Pune.

Recently we have conducted one batch in Innovation Hub, which was mainly based on Astronomy and Astrophysics as well as some basic science session. Most of the workshops based on Astronomy and Astrophysics were conducted by ISRO certified trainers. This includes an overnight Sky Observation Programme in Gholvad, which was appreciated by all the participants and even their accompanying parents. We have also announced two more 2-months workshops to be held on Saturdays and Sundays, in the discipline of integrated science and robotics respectively. Only limited seats are available in these sessions; hence you can quickly visit our website and book your seats. International conference on space and astronomy and national conference on evolution of science communication in different Indian languages are also lined up with CiiA5 edition of Innovation Festival. Stay tuned with us.

I am also glad to share with you that if you are staying nearby, you can now visit NSC in the morning hours to have a stroll/morning walk and stretch yourself in the open space Fitness Park, which has been introduced for the citizen of Mumbai, wherein some discount also given to senior citizen on monthly basis. For details you can contact our administration section.

CONTENT

IQ PUZZLES

1. Mind Spark Logic Challenge

Sanjay has completed all four of his semester final examinations. His overall average score across all subjects is 81. However, his average score in Physics and Mathematics is 78.

What is Sanjay's average score in English and History?

2. The Airport Clock Conundrum

At Mumbai Airport, three clocks in the terminal display different times.

Clock **A** shows **8:00**
Clock **B** shows **8:50**
Clock **C** shows **8:20**

You are told that one clock is 20 minutes fast, one is slow, and one is off by half an hour.

Can you figure out the actual correct time?

3. The Baker's Time Trap

Seventeen bakers can bake seventeen cookies in seventeen minutes. How many bakers will be needed to bake 51 cookies in 51 minutes?

Congratulations !!!

Congratulations to all the winners of our Math Puzzle contest featured in Sci-Mail Vol 28 No.4.

We received an overwhelming response from hundreds of brilliant students, and we are thrilled to announce the top three winners who impressed us by submitting the correct answers within the first week of publication.

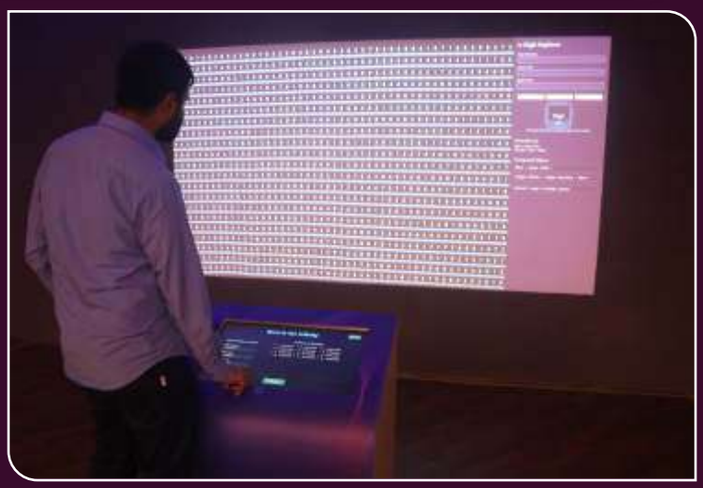
· **Shruti Ananda Mali**, Central Primmary School, Sonurle, Kolhapur.

· **Aaradhya Vilas Chavan**, Central Primmary School, Sonurle, Kolhapur.

· **Pranjal Sandesh Bhopale**, Central Primmary School, Sonurle, Kolhapur.

EXHIBIT AT THE CENTRE

Step into the world of Infinity!



"Born in the Infinity" is a fascinating new exhibit developed by Nehru Science Centre, Mumbai, that invites visitors to explore one of mathematics' greatest mysteries — the infinite, non-repeating digits of the number π (Pi).

Using an extraordinary dataset containing one billion digits of Pi, this interactive exhibit lets you search for your own date of birth (dd/mm/yyyy) pattern within this infinite sequence. Could your birthday be hidden somewhere in the endless ocean of numbers? With a simple input, the system scans through the colossal dataset to find every possible match, revealing the exact positions where your birthday pattern appears.

The exhibit works using the power of high-speed computation, parallel processing, and efficient string-matching algorithms that rapidly search through billions of digits to detect meaningful patterns within the data.

Visitors are then guided through a mesmerizing visual journey across the digits of Pi, projected in stunning clarity. Each discovery, every match, is brought to life on screen, surrounded by a swirl of numbers that seem to stretch forever. Alongside the visual experience, the exhibit displays the computational process behind the search, offering insight into how mathematics and computer science work together to uncover hidden patterns in infinity.

Visitors are invited to enter their own date of birth and see whether it exists within the first one billion digits of Pi. Due to the statistical nature of large random-like number sequences, there is a high probability that a visitor may find multiple occurrences of their birthday pattern at different positions within Pi.

If a visitor does not find their birthday pattern within this vast dataset, they are encouraged to let us know — as this would indicate that their birthday represents a particularly rare and unique combination of digits within the explored range of Pi.

"Born in the Infinity" transforms a simple number into a profound experience — showing that even in the most chaotic sequences, we can find traces of our own existence.

WHAT'S NEW

Orbitviewer App

Explore the Solar System in 3D in real time.

Space exploration has entered an exciting new era with the launch of Orbitviewer, a ground-breaking web-based app introduced by the NSF–DOE Vera C. Rubin Observatory. Designed for space enthusiasts, students, educators, and the curious public alike, Orbitviewer brings the dynamic motion of our Solar System to life through an immersive, real-time, three-dimensional experience.

Orbitviewer uses real astronomical data from the Rubin Observatory, analysed by the Minor Planet Centre, to present an unprecedented visualization of planets and millions of smaller Solar System bodies. From major planets and dwarf planets to near-Earth objects, main-belt asteroids, comets, trans-Neptunian objects, and even interstellar visitors, the app offers a comprehensive window into our cosmic neighbourhood.

One of Orbitviewer's most remarkable features is its connection to the Rubin Observatory's ambitious Legacy Survey of Space and Time (LSST)—a decade-long project expected to transform our understanding of the universe. In its very first year of operations, Rubin Observatory is projected to discover more Solar System objects than have been identified over the past 150 years combined. Orbitviewer showcases these discoveries through a live discovery counter, which updates in real time as new objects are detected.

The app is designed for seamless access across devices. Whether viewed on a mobile phone, tablet, or desktop, Orbitviewer automatically adapts for optimal performance. No downloads or installations are required—users simply visit the website and begin exploring. Four performance modes allow users to visualize anywhere from 16,000 objects (ideal for mobile devices) to an astonishing one million objects on high-performance desktops.

Interactivity lies at the heart of the Orbitviewer experience. Users can rotate and zoom through space, adjust a time slider spanning 1900 to 2100, apply filters by object type, and search for specific celestial bodies. Clicking on individual objects reveals detailed orbital and scientific information, making learning both intuitive and engaging.

Funded jointly by the U.S. National Science Foundation and the U.S. Department of Energy's Office of Science, the Rubin Observatory is operated collaboratively by NSF NOIRLab and DOE's SLAC National Accelerator Laboratory. Orbitviewer itself was conceptualized by Rubin Observatory's Education and Public Outreach team, with design and development by Fil Studio of Barcelona, Spain.

Currently available in English, a Spanish version is coming soon. Orbitviewer invites everyone to explore the Solar System like never before—turning real scientific data into an inspiring journey through space.

Source : Vera C Rubin Observatory News

Our Science & Technology Heritage

Ancient Indian Crafts: A Living Heritage of Skill and Tradition

India's ancient crafts are not merely artistic expressions; they are living testimonies to the country's scientific understanding, technological ingenuity, and cultural continuity. Developed over thousands of years, these crafts evolved in close harmony with nature, society, and everyday needs. Shaped by regional resources, climate, and social practices, traditional Indian crafts reflect a deep-rooted connection between science, skill, and sustainability.

One of the earliest and most enduring craft traditions is **Pottery**, particularly terracotta ware. Archaeological discoveries from the Indus Valley Civilization, dating back over 4,000 years, reveal finely crafted pots, figurines, and ritual objects. These terracotta items were essential for storage, cooking, and religious practices, demonstrating an early understanding of material properties and heat

control. Even today, terracotta continues to thrive in the form of household utensils, garden pots, and decorative art.

Equally remarkable is **Handloom textile weaving**, another legacy traced to the Indus Valley around 2500 BCE. Early cotton spinning and weaving gradually evolved into diverse regional traditions such as block printing, ikat, brocade weaving, and elaborate embroidery. Indian textiles used for bedcovers, cushions, curtains, tablemats, and bags are admired worldwide for their durability, intricate patterns, and aesthetic harmony.

Metalwork and engraving form another significant chapter in India's craft heritage. Skilled artisans mastered brass, copper, and silver, creating

utensils, lamps, furniture, and ornamental objects. Finely engraved metal ware reflects precision, metallurgical knowledge, and artistic finesse passed down through generations.

At the heart of these traditions are artisans who preserve collective knowledge through hands-on practice. Today, crafts such as woodwork, toys, leather goods, papier-mâché, and cane, jute, and coir products have evolved into thriving small-scale industries, supporting livelihoods while sustaining cultural identity.

Ancient Indian crafts thus stand as a bridge between past and present, where tradition meets technology. Visitors can explore this fascinating journey of skill and science at the 'Our Technology and Heritage Gallery' at our Science Centre, where history truly comes alive.

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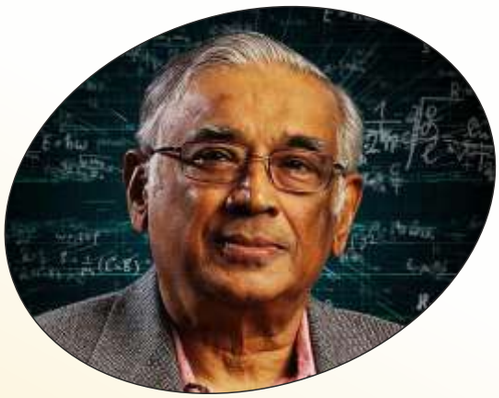
INDIAN SCIENTIST

S. R. Srinivasa Varadhan

A Life Devoted to the Beauty of Probability



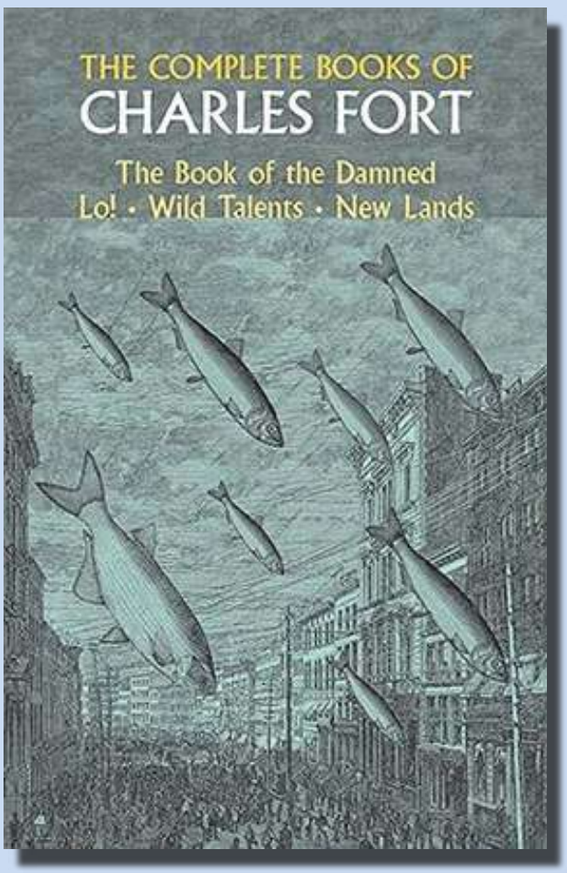
Sathamangalam Ranga Iyengar Srinivasa Varadhan, born on 2 January 1940 in Madras (now Chennai), is one of the most influential mathematicians of the modern era. Widely admired for his depth of thought and quiet brilliance, Varadhan transformed the field of probability theory and inspired generations of scholars across the world. In 2007, he became the first Asian to receive the prestigious Abel Prize, often described as the "Nobel Prize of Mathematics," for creating a unified theory of large deviations.

Varadhan showed exceptional academic promise from an early age. He completed his B.Sc. (Honours) and M.A. from Presidency College, Madras University, and earned his Ph.D. from the Indian Statistical Institute, Calcutta, in 1963 under the legendary statistician C. R. Rao. That same year marked the beginning of his lifelong association with the Courant Institute of Mathematical Sciences at New York University. Starting as a postdoctoral fellow, he rose to become a full professor and later served twice as Director of the Institute.

His research reshaped the understanding of diffusion processes, stochastic calculus, and probability theory, with applications reaching physics, finance, and biology. Varadhan's career has been honoured with numerous awards, including the Birkhoff Prize, the Leroy Steele Prize, the National Medal of Science (USA), and India's Padma Bhushan and Padma Vibhushan. He is a Fellow of the Royal Society and a member of several leading academies worldwide.

Beyond his remarkable achievements, Professor Varadhan is celebrated as a mentor and leader. His life stands as a powerful reminder that mathematics, pursued with curiosity and integrity, can illuminate the deepest laws of nature.

BOOK WORTH READING IN NSC LIBRARY



Complete Books of Charles Fort

The Book of the Damned, Lo! , Wild Talents, New Lands

Charles Fort's *Complete Books*, encompassing ***The Book of the Damned***, ***Lo!***, ***Wild Talents***, **and** ***New Lands***, is a fascinating journey into the unknown corners of science and human experience. This collection is a must-read for students who love science, science fiction, or simply enjoy questioning the ordinary. Fort was not just a writer—he was a curious observer of the world, collecting strange phenomena, unexplained events, and anomalous occurrences that mainstream science often ignored.

In ***The Book of the Damned***, Fort challenges conventional scientific thought by presenting mysterious events that defy explanation, from rain of frogs to unexplained disappearances. *Lo!* Continues this exploration, documenting odd coincidences and patterns that hint at a universe far stranger than we imagine. *Wild Talents* examines unusual human abilities, while *New Lands* investigates anomalies in geography and discoveries that challenge accepted knowledge.

What makes Fort's writing so engaging is his unique combination of humour, scepticism, and curiosity. He doesn't just catalogue the bizarre; he encourages readers to think critically, to question assumptions, and to explore the world with an open mind. His books blur the line between science and imagination, making them perfect for students who want to expand their understanding of both.

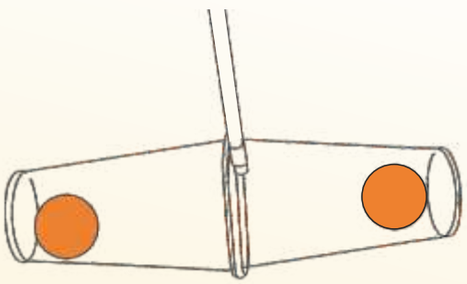
creativity

Plastic Cup Centrifuge

Have you ever wondered why clothes stick to the sides of a washing machine while spinning? Let's explore this idea with a **Plastic Cup Centrifuge** a simple, exciting experiment that shows how spinning motion works.

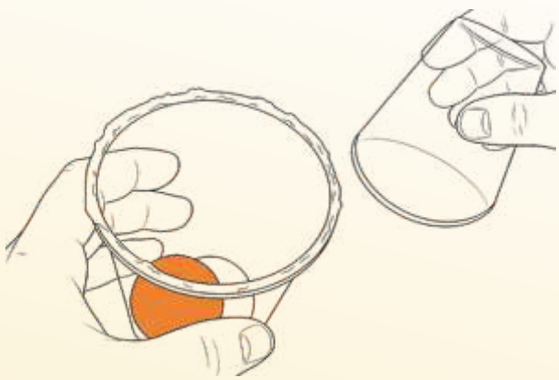
Materials Needed

·2 clear plastic cups
·2 small plastic balls or Ping-Pong balls
·Glue or hot glue (with adult help)
·1 pencil or stick



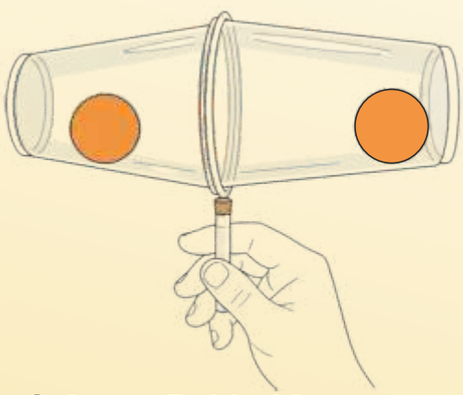
How to Make It

First place the two balls inside one plastic cup. Apply glue carefully around the rim and seal it by placing the second cup upside down on top. Press gently so both cups stick together, forming a closed container. Now attach a pencil or stick to the side of the cups—this will help you spin it easily.



What to Do

Spin the cups quickly by rolling the pencil between your hands or on the floor. Watch closely while it spins and again when it stops!

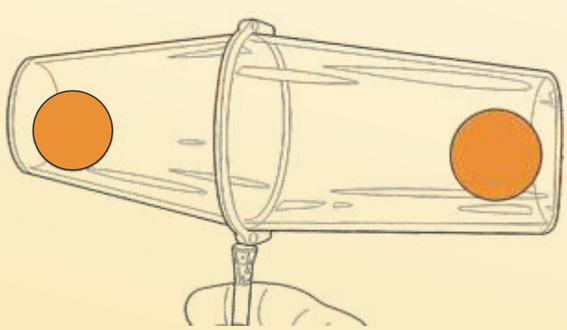


What You Observe

· While spinning, the balls move toward the outer edges of the cups.
· When the spinning slows down or stops, the balls fall back to the bottom.

The Science Behind It

When the cups spin, the balls try to move in a straight line. But the rotating cups push them outward this effect is called centrifugal force. When spinning stops, gravity pulls the balls back down.



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DID YOU KNOW?

Why Is Sea Water Salty?

Have you ever wondered why sea water tastes salty while river water does not? The answer lies in a fascinating combination of geology, chemistry, and the long history of Earth itself.

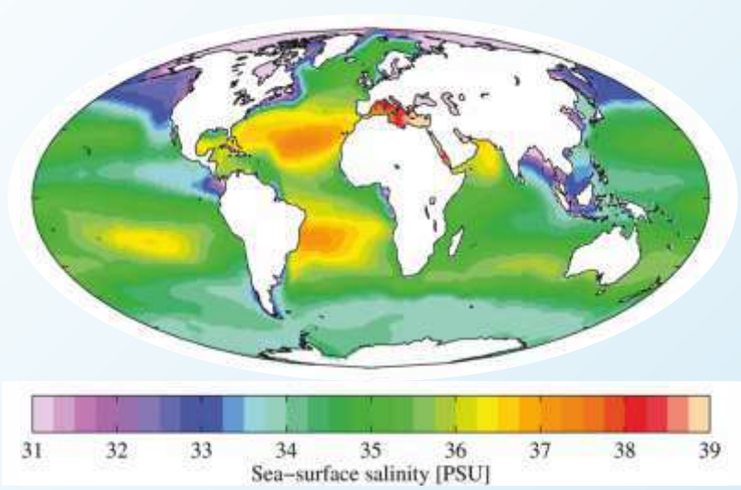
Rainwater is naturally slightly acidic because it absorbs carbon dioxide from the atmosphere. When this rain falls on land, it slowly weathers rocks, dissolving small amounts of minerals and salts. Rivers and streams carry these dissolved minerals especially sodium and chloride—towards the oceans. While rivers constantly flow and refresh their water, the oceans act as vast collectors, receiving these minerals over millions of years.

Once minerals reach the sea, most of the water evaporates under the Sun's heat, but the dissolved salts remain behind. This continuous process gradually increases the salt content of ocean water. Sodium and chloride ions combine to form sodium chloride, the same compound we know as common table salt, which gives seawater its salty taste.

Another important source of ocean salinity comes from Earth's interior. Underwater volcanic eruptions and hydrothermal vents release minerals and dissolved ions directly into the sea. These vents also drive chemical reactions that help maintain a balance between salts entering and leaving the oceans.

Despite the constant addition of salts, ocean salinity remains relatively stable. This is because some salts are removed through natural processes such as the formation of sedimentary rocks, sea spray, and absorption by marine organisms that use minerals to build shells and skeletons.

On average, seawater contains about 35 grams of salt per kilogram of water. This salinity plays a crucial role in regulating ocean circulation, climate, and marine life. Thus, the saltiness of the sea is a result of Earth's dynamic systems working together over billions of years.



DID YOU KNOW?

Why Does Boiled Water Lose Its Taste?

Many people notice that boiled water often tastes “flat” or less refreshing than fresh tap or spring water. This change in taste is not due to impurities being added during boiling, but rather to subtle scientific processes that alter the water's physical and chemical properties.

One of the main reasons boiled water loses its taste is the removal of dissolved gases. Natural water contains small amounts of gases such as oxygen, carbon dioxide, and nitrogen, which dissolve from the air. These gases play an important role in giving water its fresh, crisp taste. When water is heated to boiling, these dissolved gases escape into the air. As a result, boiled water lacks the gases that normally stimulate our taste receptors, making it seem bland.

Another factor is the change in carbon dioxide content. Carbon dioxide dissolves in water to form a weak acid called carbonic acid, which contributes a slight sharpness to the taste. Boiling drives out carbon dioxide, reducing this mild acidity and leaving the water with a neutral, less lively flavour.

Boiling can also affect dissolved minerals. While most minerals remain in the water, prolonged boiling can cause some salts to precipitate or concentrate slightly due to evaporation. This may subtly alter the balance of minerals responsible for water's natural taste.

Additionally, temperature itself influences taste perception. Our taste buds are less sensitive to certain flavours when liquids are consumed warm. Boiled water, if not fully cooled, may therefore taste dull simply because of reduced sensory sensitivity.

In essence, boiled water is safe and often purer, but the loss of dissolved gases and minor changes in mineral balance explain why it tastes flat. Allowing boiled water to cool and aerate—by pouring it between containers—can help restore some of its freshness.

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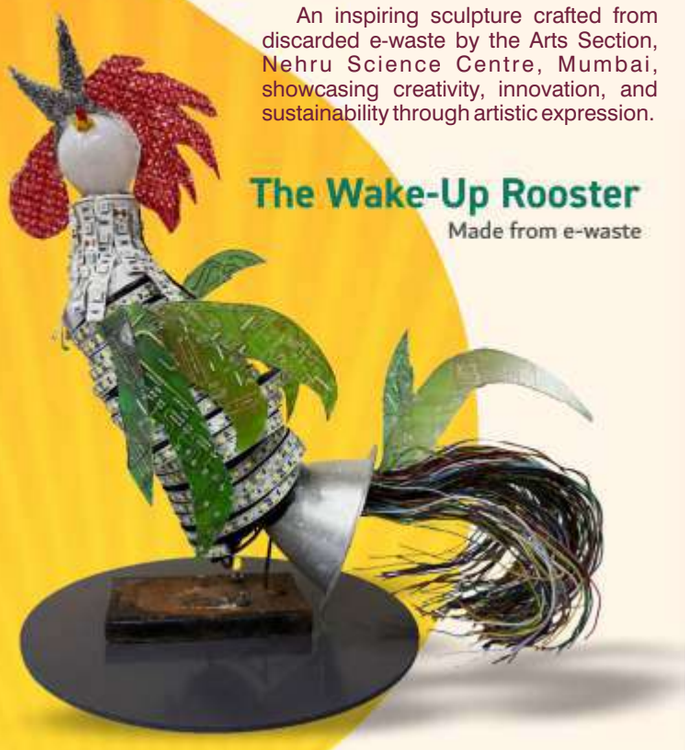
WASTE to ART

An inspiring sculpture crafted from discarded e-waste by the Arts Section, Nehru Science Centre, Mumbai, showcasing creativity, innovation, and sustainability through artistic expression.



The Wake-Up Rooster

Made from e-waste

UPCOMING PROGRAMMES

- **Drone Soccer Competition: 19–25 January 2026**
- **Aviation Day: 24 January 2026**
- **National Science Day: 28 January 2026**
- **Innovation Festival with CIIA: 4–8 February 2026**
- **HPCL Literature Fest: 12–13 February 2026**
- **Marathi-Malayali Ethnic Fest: 14 February 2026**
- **International Women's Day: 8 March 2026**
- **World Water Day: 22 March 2026**

For further details and updates

How Things Work?

How the UltraEdge System Works in Cricket ?

Modern cricket beautifully blends skill with science, and the '**UltraEdge**' system also known as '**Snickometer**' is a fine example of technology supporting fair play. Used as part of the Decision Review System (DRS), UltraEdge helps umpires decide whether the ball has touched the bat or pad during close catches and LBW appeals.

UltraEdge works on a simple but powerful principle: Sound. Highly sensitive microphones are placed inside the stumps (and sometimes linked with bat sensors) to capture even the faintest noises made when the ball strikes the bat or pad. These microphones are so precise that they can distinguish between different types of contact, filtering out background noise from the crowd or ground.

When a review is taken, the system displays a waveform graph, similar to an oscilloscope on the screen. This graph shows sound energy as waves. A sharp spike at the exact moment the ball passes the bat usually confirms an edge, while a flat or delayed spike suggests no bat contact or pad impact. To ensure accuracy, the audio graph is perfectly synchronized with slow-motion video footage from multiple cameras placed around the field.

UltraEdge is an advanced version of the original Snickometer, invented by British computer scientist Allan Plaskett and first used in 1999. After extensive testing, including verification by engineers at MIT, the system was approved by the International Cricket Council (ICC).

By reducing human error and increasing transparency, UltraEdge builds trust among players, umpires, and fans making cricket fairer, smarter, and more exciting for everyone.

IN THE LAST QUARTER

2025
October

DIY Innovative Science Experiments with Measurements

Hands-on Saturday sessions engaged 11 enthusiastic students in creative experiments, promoting experiential learning, accurate measurement, and scientific observation at Nehru Science Centre, Mumbai.

Drone Workshop (11 October 2025)

Nehru Science Centre, Mumbai, in collaboration with Anant Vega (ISRO-certified tutors), conducted a hands-on Drone workshop for 23 students. Participants explored drone basics, assembled a quadcopter, practiced flight controls, and interacted online with ISRO Senior Scientist Mr. Vishwas Kumar, making the session highly inspiring.

World Wildlife Week Celebration (12 October 2025)

In association with NYASS Trust, Dombivli, an engaging workshop and wildlife film screenings were organized. Activities included a presentation on jungle tracking, a wildlife pop-up card activity, liquid nitrogen demonstration, and conservation films, reaching over 120 students and teachers.

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Lantern Making Workshop – A Blend of Science & Creativity (18 October 2025)

In collaboration with IISER Pune, a vibrant “Make and Take” workshop saw around 340 participants explore geometry, mathematics, and artistic expression while crafting festive lanterns.

Slogan Drop Contest: “Swachhata Hi Seva”

Organized under Swachhata Special Campaign 5.0, the contest inspired visitors and students to submit creative slogans promoting cleanliness and civic responsibility.

Popular Science Lecture on Cyber Security Awareness (22 October 2025)

An online lecture titled “Staying Safe in the Age of AI-Driven Cyber Attacks” by Ms. Rathna K, Senior Product Manager, K7 Security, attracted around 240 participants, offering valuable insights into digital safety in the AI era.

IN THE LAST QUARTER

2025 November

Innovation Hub – Rover Technology Session (1 Nov 2025)

Students explored rover mechanics, circuitry, and basic programming in an interactive hands-on session in collaboration with Anant Vega (ISRO-certified tutors).

New Innovation Hub Batch Announced

A new Astronomy batch commenced with 16 fresh students joining seven blended sessions alongside senior batches.

Rocket & Rocket Fuel Workshop (8 Nov 2025)

Students learned rocketry fundamentals and propellants, designed prototype rocket fuel, and successfully launched small-scale rocket models.

Gravity Concepts Session (22 Nov 2025)

Interactive activities and experiments helped students understand gravity, orbits, and black holes, followed by a fun quiz.

Periscope Making Workshop (29 Nov 2025)

Students learned about mirrors in astronomy and built their own periscope models using simple materials.

Overnight Sky Observation Camp & Sci-Birthday (15 Nov 2025)

Students enjoyed stargazing at Gholvad–Palghar, observing nebulae, galaxies, planets, meteors, and the Leonid Meteor Shower under clear skies. Also for the first time, NSC celebrated the sci-birthday of Ms. Netra Patil under skies by cutting cake at midnight.

Annual Science Quiz 2025

Over 145 schools participated in the written rounds, with around 450 attendees at the inauguration, in collaboration with Rotary Club of Bombay.

40th Anniversary Celebration of Nehru Science CentreNSC marked four decades of science engagement with the inauguration of the new Puzzles' Corner in the presence of over 250 participants.

IN THE LAST QUARTER

2025 November

Children's Day Celebration (14 Nov 2025)

A joyful day of science shows, hands-on experiments, quizzes, and gallery visits celebrated curiosity and young minds.

Teacher Enrichment Program (23 Nov 2025)

Educators gained insights into Design Thinking and AI in education through expert-led sessions with 38 participating teachers.

Rocket & Rocket Fuel Workshop (8 Nov 2025)

Students learned rocketry fundamentals and propellants, designed prototype rocket fuel, and successfully launched small-scale rocket models.

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Inauguration of Fun Science Gallery (28 Nov 2025)

Nehru Science Centre, Mumbai inaugurated the new Fun Science Gallery on 28 November 2025 in the presence of Chief Guest Prof. Jayaram Chengalur, Director, TIFR Mumbai, and other distinguished guests. The programme included a traditional lamp lighting, release of the inaugural folder, and an address highlighting hands-on learning. Around 280 students and visitors enthusiastically explored the interactive exhibits.

IN THE LAST QUARTER

2025
December

Science Festival India 2025

Science Festival India 2025, held on 3–4 December at Nehru Science Centre, Mumbai, showcased vibrant DIY science challenges, Nuclear Quest, expert lectures, science films, drama, and a spectacular flash mob. Organized with ROSATOM and Energy of the Future, the festival engaged nearly 1,500 active and 4,000 passive participants, igniting curiosity and celebrating Indo-Russian scientific collaboration.




Western India Science Fair 2025 (WISF)

Nehru Science Centre, Mumbai organised the Western India Science Fair 2025 from 10–13 December, bringing together young innovators from Chhattisgarh, Goa, Maharashtra, and Rajasthan. Twenty student projects and eleven teaching aids showcased creativity and scientific thinking. Over 8,500 visitors' explored exhibits, interacted with participants, and enjoyed demonstrations, sky observation, and guided learning experiences.




Sci-Birthday Celebration - 7th December, 2025

Nehru Science Centre hosted a joyful Sci-Birthday on 7 December 2025, where 40 children and parents enjoyed 3D shows, Science on Sphere, hands-on activities, high-voltage and liquid nitrogen demonstrations together.

National Mathematics Day 2025

Nehru Science Centre, Mumbai, celebrated National Mathematics Day on 21–22 December 2025 with lively and engaging programmes. Hands-on activities, quizzes, puzzles, workshops, and captivating demonstrations showcased mathematics as fun and meaningful. With enthusiastic participation across all age groups, the celebration inspired curiosity, logical thinking, and a deeper appreciation of mathematics beyond textbooks.

IN THE LAST QUARTER

2025
December

Sky Observation Programme – (December 2025)

Nehru Science Centre, Mumbai, organized engaging Sky Observation Programmes from 25–27 December, with more sessions planned till 31 December 2025. Visitors explored the Sun, Moon, and Saturn through telescopes, enjoying guided learning and celestial wonders.

CES Experimental Skill Test

Nehru Science Centre, Mumbai, in collaboration with BASE, conducted the CES Experimental Skill Test on 14 and 21 December 2025. The batch-wise sessions assessed students' experimental skills, scientific reasoning, and hands-on laboratory competence.

DIY Innovative Science Experiments with Measurements Programme

DIY Innovative Science Experiments with Measurements Programme at Nehru Science Centre, Mumbai, engaged six students in Sunday sessions, promoting hands-on learning through simple, innovative, measurement-based experiments.

https://nehrusciencecentre.gov.in 022-3105 9020 / 3105 9021 nscm.edu@gmail.com
https://www.facebook.com/nehrusciencecentre | https://www.youtube.com/c/NSC Mumbai | https://twitter.com/NSCmumbai | https://www.instagram.com/nehrusciencecentremumbai

Teachers' Training Programme - 27th December 2025

Nehru Science Centre, Mumbai, with Kalpak Ghar, IISER Pune, conducted a one-day Teachers' Training Programme on 27 December 2025, engaging 18 teachers in hands-on, activity-based science and mathematics teaching for experiential classroom learning approaches effectively.

Mobile Science Exhibition (MSE)

Nehru Science Centre's Mobile Science Exhibition reached Tahsil Kalmeshwar, Nagpur, in December 2025, covering 11 sites over 22 days, engaging schools and communities through interactive exhibits that sparked curiosity and scientific awareness among young learners.

Innovation HUB

The Innovation Hub sessions in December 2025 engaged students through inspiring space and technology learning. Activities included CubeSat fundamentals, Rover technology, Basics of Astronomy, drone revision, rocket-making and live demonstrations. Interactive sessions, assessments, and hands-on experiences culminated in certificate distribution, fostering curiosity and innovation.

Feathers to Fabric Workshop

Nehru Science Centre, Mumbai hosted the Feathers to Fabric workshop on 7 December 2025 to mark Dr. Salim Ali's birth anniversary. Eight participants explored birdlife through talks, T-shirt painting, and a campus bird walk, spotting 13 bird species while blending creativity with nature.

NSC - A Wonderland of Science

Science Park: Full of interactive exhibits on principles of energy, mechanics, perception & relics from the past: railway engines, tram cars, aircraft, electric power generator in park spread over 8 acres in green environment with over 200 species of plants and picnic area for school groups.

Permanent Exhibitions: The main building houses galleries full of exciting, interactive & interesting exhibits on topic relevant to school curriculum and for general public to make them appreciate Science with fun.

- Reception • Science for Children • Sound & Hearing
- Mirror Gallery • Machined to Think • Evolution
- Human and Machine • Our Technology Heritage
- Prehistoric Life • Hall of Nuclear Power
- Hall of Aviation & Space

Regular Programmes / Activities

SCIENCE ODYSSEY

The Science Odyssey facility with 18m dia Spherical Dome & fish eye lens projection system set up at the Centre, is the first of its kind in this region. It provides an opportunity to learn science in an immersive ambience. special shows can be arranged on request.

Now Showing "Australia's Great Wild North" Check our website for updates: https://nehrusciencecentre.gov.in/

High Voltage Demonstration

Nehru Science Centre, Mumbai has set up the first of its kind High Voltage Demonstration facility titled **'Sparkling High Voltage Demonstration'** which is now opened for the visitors.

This new facility offers some impressive demonstrations with a 200kV AC transformer, spectacular display of sparks & sounds with a Large TESLA Coil producing up to 1.50 million-volts and many more supporting equipments like Lichtenberg Tree Formation set-up, Jacob's Ladder, Arcing Horns, etc. wherein visitors can see disruptive discharges through air, sliding discharges over a glass plate, the demonstration with Faraday's cage, artificially generated lightning, etc.

Science on a Sphere

The state-of-the-art educational visualisation tool patented by the National Oceanic and Atmospheric Administration (NOAA), USA, is the first of its own kind in the western part of India. The **Science On a Sphere** provides real time atmospheric and climatic data that is projected on the 1.8 metre Spherical globe. The giant animated sphere appears to be floating in mid-air, and even rotating on its axis. You can see oceans & continents in their actual colours (just as our planet appears from outer space), Tropical rain forests, Currents of the oceans in motion, Moon, Jupiter and Mars. This amazing, cutting-edge technology, the SOS, was invented by NOAA to educate the audience on earth and space systems in a three-dimensional format. This technology is now available worldwide for science centres, museums, educational institutes etc.

3D Science Show

The visitors to the 3D Science Show will experience an out of the world immersive experience in which the near realistic visuals will appear to come out from the static screen right in front of their eyes. The shows would be conducted every hour at the Centre for the general public & school groups.

Science Show

Exciting science demonstrations on Air, Sound, Chemistry is Fun and Fun with Physics etc. are organized regularly at the Centre thrice a day.

Sky Observation Programme

Every Saturday & Sunday after Sunset
(Weather permitting)

Scan QR code &
Follow us on social media

You can book online
Entry Ticket to
Nehru Science Centre
https://nscm.in/general-ticket/

Follow the Steps:

1. Book your ticket
2. Go to Cart and confirm it is of correct type
3. Go to Checkout and pay using Net Banking, Credit Card, Debit Card or UPI app

Book Online

Timing

Nehru Science Centre is open to public every day including Sundays and public holidays throughout the year

Opening hours:
09.30 AM to 06.00 PM

Ticket Counter Timing:
09.30 AM to 05.30 PM

Closed on Holi & Diwali.

Entry fee per visitor to Science Centre & its special facilities.

Particulars	Amount
Entry Ticket to Science Centre Only	
• General Visitors	₹ 80/-
• Group of Visitors (15 or more)	₹ 65/-
• Students in organised group with authority letter	₹ 30/-
• Students from Govt./Municipal Schools with authority letter	₹ 15/-
• BPL card holders on producing the card	₹ 5/-
Entry Ticket ONLY to Science Park - General Visitors	₹ 20/-
Special shows - Science Odyssey	
• General visitors	₹ 80/-
• Group of Visitors (15 or more)	₹ 70/-
• Students in organised group with authority letter	₹ 50/-
• Students from Govt./Municipal Schools with authority	₹ 25/-
3D Science Show / Science on Sphere	
• General visitors	₹ 30/-
• Group of Visitors (15 or more)	₹ 25/-
• Students in organised group with authority letter	₹ 20/-
• Students from Govt./Municipal Schools with authority letter	₹ 10/-
Science Film Show / Science Demonstration Lecture (on prior booking)	₹ 10/-
Package ticket for Science Centre & Science Odyssey	
• General visitors	₹ 140/-
• Group of Visitors (15 or more)	₹ 120/-
• Students in organised group with authority letter (Non-Member Schools)	₹ 70/-
• Students in organised group with authority letter (Member Schools)	₹ 60/-
• Students from Govt./Municipal Schools with authority letter	₹ 25/-
Special Packages	
• Science Centre, 3D show & SOS show for General visitors	₹ 130/-
(Science Centre, Science Odyssey, Sparkling High Voltage, 3D show & SOS show)	
• Students in organised group with authority letter (Non-Member Schools)	₹ 100/-
• Students in organised group with authority letter (Member Schools)	₹ 85/-
• Students from Govt./Municipal Schools with authority letter	₹ 40/-
Family Packages	
Science Centre, Science Odyssey, Sparkling High Voltage, 3D show, SOS show & Motion Simulator Ride.	
• Family of 4 members	₹ 800/-
• Family of 6 members	₹1200/-
(Buy Family Ticket to Save & have lot of FUN)	
Parking Charges	
2 Wheeler	₹ 30/-
4 Wheeler	₹ 60/-

Free Entry only to Science Centre :
Children up to 3.4 feet (102 cm) of height
Defense & Paramilitary forces in uniform
Physically challenged persons and ICOM members
For other facilities visitors have to pay specified fee as per the category.

**"Silence is the best answer for all questions,
Smile is the best reaction in every situation."**

- Dr A P J Kalam

Nehru Science Centre

**A Unit of National Council of Science Museums,
Ministry of Culture, Govt. of India**

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