

news national

MEET OF BUDDING THINKERS

representatives from all the States and Union Territories of India assembled at the National Science Centre in Delhi on December 20, 1988 for the final round of interaction in the Seminar. Information Revolution was the topic of this year, given to the school students to deliberate on, and it got thousands of young thinkers all over the country into intimate, involved and nevertheless critical discussions.

All the constituent units of

NCSM all over India actively take part to organise the seminars at different levels in a well-coordinated way. A major annual event of NCSM, organised in collaboration with the State Education Departments, this seminar has a multi-tier system : on a given topic of national relevance thousands of students all over India start interacting at block level, and gradually go up to the national level, through the successive stages of district and state level contests.



The Seminar - A platform for national integration.

MEET OF BUDDING SCIENTISTS

visvesvaraya Industrial & Technological Museum in Bangalore organised the Southern India Science Fair-1988 during October 30—November 03, 1988 at 51. Ebba's Higher Secondary School, Madrasthe Government of Tamil Nadu collaborated with NCSM in this project.

A great many ingenuous exhibits, attefacts and models were displayed and demonstrated in this Fair by student representatives of 123 schools from 5 States of the Southern India.

Science Fairs bring out the latent potentiality in the students.



NEHRUAND

EXHIBITION ON C.V. RAMAN.

HOW DO WE HEAR

Everywhere, both at Calcutta (above) and at Bangalore (bottom) the emphasis was on visitors' participation.







November 7, 1989 for the valediction of the centenary programme. Similarly the exhibition from Bangalore will move through Tirunelveli, Madras, Hyderabad, Gulbarga and finally reach Bombay on November 7, 1989

(Details of programme in page 8)

A NEW DISCOVERY OF INDIA

ehru Science Centre in Bombay paid homage to the great visionary after whose name the Center is established, by dedicating a new gallery. "Our Heritage". The 10000 sa, ft. exhibition with 200 participatory exhibits depicts the country's five millenia of tradition in science and technology. based on which Pandit Nehru four decades ago launched a drive for building a modern nation.

Jawaharlal. a great visionary. He had an advancement of science

when he became the was the first to realise the role that museums can play museums he said :- "In

the museum to be

500 km, apart in two different cities, at Calcutta and Bangalore, two like exhibitions were opened to public-November 7, 1988, the day when C.V. Raman was born a century ago. It is just appropriate for the NCSM to open in these two cities that nuritions were designed and and Technological Museum her sister. Visvesvaraya Industrial and Technological

Graphic panels with many rare photographs capture and sequentially present the ant of science. An assortment of artefacts and parareas of acoustics and ous topics that were pub-

and Lucknow

Shri K. Brahmananda Reddy, Governor of Maharashtra inaugurated the gal-



NEWS NATIONAL

NCSM INDIA OFFERS 101 HANDS ON EXHIBITS READY FOR INSTANT USE s the name rightly implies, here science is not a "subject", but an experience packed with fundere is an array of 101 fully participatory exhibits on a wide variety of topics, strewn all over a floor-space of 1000 square metres. When interacted with, they seem to be extremely quizzical and paradoxical in their manifestations; but reveal the inherent principles of science only to a probing, questioning mind.

NCSM has developed this set of exhibits for rendering catalytic support to the science centres in India and abroad who are in the budding and without ready infrastructure for exhibit development. NCSM supplies this set of international quality exhibits on cost basis, which as on date is Rs 40,00,000- (USS 300,000). The price includes cost of exhibit design, layout design for specific exhibition hall(s), complete catalogue and instruction manual, free





The inauguration of the FUN SCI ENCE gallery Laborate bein the sense that science museum experts of the world over who assembled at the international workshop, had been present at the inauguration. Here they are seen in interactive participation with different exhibits



installation within India and free training at Central Research & Training Laboratory (CRTL) of NCSM.

101 exhibits comprise the following topics:

Defying Gravity ? Mathematics Fluidics

Pendulum Rolling Balls Sound

Perpetual Motion ? Optical illusion

Fun with Electricity Light

Magnetism Mirrors

Chemistry

Concurrently with the international workshop, the first set of FUN SCIENCE exhibits was inaugurated at National Science Centre in Delhi on December 05, 1988 by Shri P. Shivshanker, Union Minister of Human Resource

Development Govt. of India.

NCSM SPEAKS

(Continued from page 1)
abroad also goes on
unabated, with various projects. Work is also in progress for NCSM's massive
project of setting up 1000
School Science Centres.

CAPSULE the newsletter is the vehicle for disseminating all the news to a wide audience throughout the world. News and views of all the likeminded organisations in India and abroad are invited by CAPSULE.



Probability Curve 2.

Hot Air Baloon

3. Floating Ball.

4.

Rebound Balls

Liquid painting

6. Transfer of Momen-

news international

SCIENCE MUSEUMS WITHOUT WALLS - exhibits to go

he workshop envisaged development of new concepts and techniques science museums exhibits and activities oriented towards outdoor facilities like Science Parks. Travelling Science Exhibitions, Loan Kits and outreach. various other activities.

To cope with the current

social transformation that is going on in many countries. museums science around the world are also in a process ot change. Working and animated exhibits were introduced to support and supplement artefacts. Interactive educational programmes were launched for better understanding of exhibits. Participatory and interactive exhibit concept gained favour in new science centres because of their immense learning possibilities, in addition to the entertainment value. The latest trend in the changing process is perhaps the outreach activities.

Conducting outreach prog-

rammes by science museums is not a new phenomenon. Travelling science exhibitions. science circus, museobus, community science programmes, science camps and fairs, science drama, video and TV programmes, films, mobile science demonstrations, circulating loan kits, nature camps and nature parks are some of the many examples. Latest addition to the concept is science park. an outdoor science centre, with interactive, robust and all-weather exhibits. Initial reasons for introduction of such programmes varied with different museums but all had one basic goal in common, and that was to

National Council of Science Museums organised this workshop, in collaboration with International Council of Museums (ICOM). United Nations Educational, Scientific and Cultural Organisation (UNESCO), and Indo-Us Sub Commission on Education and Culture.

serve more and more people.

Science museums and centres all over the world have worked and are working in this direction in their own individual ways. Vanous degrees of developments are also taking place. But there remains a marked communication qua. It is time when all



















the experiences need to be synthesized in the form of a working manual which will be a kind of quideline for the science museums in developing new programmes or invigorating the existing programmes.

This was precisely the idea that took shape in the workshop, participated by 51 subject experts from 21 countries of the world.

The Indian team comprising experts from National Council of Science Museums and other Organisations in India was led by Dr. Saroj Ghose, the Director General of NCSM.



HE GRAND FINALE

CIMUSET MEET IN INDIA AGAIN

he International Committee on Science and Technology Museums of the International Council of Museums met in India again during December 1988. The meeting of the Executive Committee of CIMUSET was held in National Science Centre, New Deihi, on 5th December 1988, just before the inauguration of the International workshop on Museums without Walls". A General Body Meeting of all CIMUSET members was held at Birla Industrial & Technological Museum, Calcutta on 13th December. For the first time, in between two ICOM General Conferences. a General Body Meeting of CIMUSET was convened

when CIMUSET met in India. The first meeting of CIMUSET was held in India in 1969 under the Chairmanship of Mr. Frank A. Taylor, the then Director General of museums under the Smithsonian Institution. CIMUSET again met in India in 1982 under the Acting Chairmanship of Mr. Victor J. Danilov, the then Director, Museum of Science and

















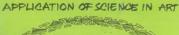
CALENDER OF EVENTS '88-'89

PROGRAMME FOR MONTH NEHRU'S BIRTH CENTENARY

PROGRAMME FOR RAMAN'S BIRTH CENTENARY

November 1988	Inauguration of new exhibition half on Heritage in Nehru Science Centre, Bombay.	
December 1988	i) Inauguration of Fun Science' exhibition in National Science Centre, Derbi. ii) Organisation of International Workshop on Science Museums without Walls'. iii) National Science Seminar for School students.	Raman Exhibition II at Bangalore.
January 1989	Inauguration of Mobile Science Exhibition for Madhya Pradesh.	
February 1989	Inauguration of Certral Research & Training Laboratory, Calcutta. Inauguration of Mobile Science Exhibition for North Bengal.	
March 1989	Inauguration of Regional Science Centre, Bhubaneswar Setting up 100 School Science Centres in Madhya Pradesh, Orissa, Uttar Pradesh, Bhar and West Bengal	
April 1989	Inauguration of new exhibition half in District Science Centre, Dharamour.	Raman Exhibition II at Trivandram
May 1989	Inauguration of Mobile Science Exhibition for Uttar Pradesh	Raman Exhibition I at Palna.
June 1989	Inauguration of Regional Science Centre, Lucknow.	
July 1989	Inauguration of new gallery on 'Electro-Technique' in Visvesvaraya Industriat & Technological Museum, Bangiore.	Inauguration of Raman Science Centre, Nagour
August 1989	Inauguration of hall of exhibition on "Ocean" in Tirunelveil.	
September 1989	Inauguration of Mobile Science Exhibition for Assam & North Eastern States	Raman Exhibition II at Naggur
October 1989	Inauguration of Regional Science Centre, Guwahati.	Raman Éxhibitiop I at Delhi.
November 1989	Completion of new exhibition half in National Science Centre, Delhi Inauguration of new Mobile Science Exhibition unit in Delhi ii)	

We have now moved to our new home : National Council of Science Museums Sector V. Block GN Salt Lake City
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THE NEXT

he Regional Science Centre in Bhubaneswar. the first one in the State of Orissa, is going to have a gala opening, The Centre had been operational for quite some time, with its programmes, Science Park and the Museobus.

Capsule-13 will give you the details.