

The National Academy of Sciences, India

5, Lajpatrai Road, Prayagraj-211002, India



Summary of the Activities, held in the month of September 2022

1. Open Science is an important vertical in science policy globally and requires regional dialogues and robust systems on how we generate and disseminate knowledge accessible to everybody. Taking this forward, Open Science South Asia Network (OSSAN) organized a conference/round table, where the NASI was an important invitee. Prof Jayesh Bellare, General Secretary (OS), NASI, participated on 5th Sept. 2022; the excerpts of NASI Views (presented by Prof Bellare) are enclosed herewith as **Annex. 1**.
2. NASI-HQ and its different Chapters celebrated the National Teachers Day on 5th Sept. 2022. A few teachers were also honoured with the awards on this auspicious day (a copy of programme & news clipping is enclosed as **Annex. 2**). **The theme of the programme was National Education Policy.** Further, **NASI-Jharkhand Chapter** also organized a workshop on NEP on 5th September at Jamshedpur, Jharkhand (the details are enclosed as **Annex.3**). The **NASI-Bhopal Chapter** also organized the lecture series on Wildlife on 5th Sept. 2022 (the details enclosed as **Annex. 4**).
3. A two days comprehensive programme was organized by the NASI-HQ in collaboration with the CSIR-NBRI, Lucknow and BCIL, New Delhi on 'S & T based Entrepreneurship Development', on Sept. 12-13, 2022 at Lucknow under the Chairmanship of Prof. Manju Sharma, Past President, NASI (a copy of the programme enclosed herewith as **Annex. 5**). About 200 students/researchers/entrepreneurs participated in the programme.
4. The National Academy of Sciences, India (NASI), Local Chapter-Varanasi, organized recently a lecture on a very important and pertaining topic, "Funding Opportunities in India for Scientists and Engineers". The distinguished speaker was Prof. T.K. Chandrasekhar. Senior Professor in NISER, Bhubaneswar, and was also the founder Secretary of the Science and Engineering Research Board (SERB), New Delhi (photographs enclosed as **Annex. 6**).
5. The 'Women in Science' Lecture Series was organized by the NASI-Delhi Chapter (details given as **Annex. 7**).
6. The 'River Cauvery - the Lifeline' an interactive socio-scientific gallery, established by the NASI at Mysuru with the support of GoK and the NCSM, was inaugurated by Shri S T Somashekar Hon'ble Minister for Co-operation and Mysore District Minister-in-charge, Government of Karnataka on 17th September 2022 at Karnataka Exhibition Authority Campus, Mysuru, in the august presence of Prof S R Niranjana, Former Vice Chancellor Gulbarga University, Smt. K A Sadhana Director, VITM, and others (the details given as **Annex. 8**).
7. Several Chapters of the Academy also organised Science-Society Programmes of the NASI; the publication of the NASI-Journals also achieved their time-lines.

Recording

Open Science South Asia Network

DST-CENTRE FOR POLICY RESEARCH IISc DST-CPR INDIAN INSTITUTE OF SCIENCE

CS&S Code for Science & Society

swissnex

Open Science South Asia Network

OSSAN 2022

DST-CPR Team

Prof. TA Abinandanan

Dr. Moumita Koley

Dr. Pragya Chaube

Dr. Gautam Sharma

Mr. Jahnab Bharadwaj

Workshop partners

frontiers

authorcafe



NASI informal views on Open Science

1. NASI fully supports and encourages the concept of Open Science for its many known advantages.
2. NASI recognizes that Open Science can spark change and inspire by its auto-catalytic effect and societal friendliness.
3. There is no formal NASI position paper on open science, but its decisions are driven with OS in mind.
4. NASI is part of the Inter-Academy group and supports its views, e.g., in Current Science, VOL. 118, NO. 7, 10 Apr 2020.
5. NASI encourages citizen science and its dissemination through its Science and Society initiatives.
6. NASI is inclusive at multiple levels through formal programs: Schedule Tribe program, training of school students, women empowerment program, sensitization of society during COVID 19, development of river galleries, etc.
7. NASI tries to broaden participation by historically excluded communities through its meetings and fellowships.
8. NASI journals provide options of traditional publishing model (without APC) or open access (with APC)
9. But NASI wishes to have OA without charges to author or reader.
10. NASI is discussing how to deal with the transformative process (journals and agreements) for cOAlition S.
11. NASI notes disadvantages of researchers in India and South Asia: visibility of research, easy access to global research.
12. Who pays, and how much, remains undecided. International, Regional, and National efforts here are welcome.
13. Whereas the rising menace of predatory journals is worrisome, the concept of preprints and open review is welcome.



राष्ट्रीय विज्ञान अकादमी, भारत

5, लाजपराय मार्ग, प्रयागराज-211002



The National Academy of Sciences, India

5, Lajpatrai Road, Prayagraj -211002

राष्ट्रीय शिक्षक दिवस समारोह NATIONAL TEACHERS DAY CELEBRATION (offline mode)

विषय:- नई शिक्षा निति में विज्ञान एवम् प्रौद्योगिकी
Theme:- *Science & Technology in New Education Policy*
on

Date: September 5th, 2022

Time: 11.00 am to 1.30 pm

Venue: NASI Auditorium, 5, Lajpatrai Road, Prayagraj

--- Tentative Programme ---

Reporting of the Students – 10.30 am

Inaugural Session: - (to be coordinated by Dr. Santosh Shukla, AES, NASI)

- ❖ Welcome & Introductory Remarks : Dr. Niraj Kumar, Executive Secretary, NASI
- ❖ Address by the Guest of Honour : Prof. Krishna Misra, Emeritus Professor, IIT, Prayagraj; & Former General Secretary, NASI
- ❖ Chief Guest Address : Prof. R.S.Verma, Director Motilal Nehru National Institute of Technology Prayagraj
- ❖ Presidential Address : Prof. U.C.Srivastava, Coordinator, Science Communication Programme & Treasurer, NASI
- ❖ Conferment of NASI-Science Teacher Awards and Felicitation of the Guests (to be coordinated by Shri B.P.Singh & Dr. Pavitra Tandon, AES, NASI)
- ❖ Vote of thanks : Shri A K Srivastava, Dy.Executive Secretary, NASI

6/9/2022 → News Published in Hindi Daily (Amar Ujala) →



जगन्नाथन गोल्डेन जुबिली में विद्यालय एजुकेशन सोसाइटी की अध्यक्ष पूनम रानी प्रधानाचार्य सुषिता कानूनगो ने कार्यक्रम की शुरुआत की। बैंक ऑफ बड़ौदा की ओर से शिक्षिकाओं को सम्मानित किया गया। छात्रों ने नाटक का मंचन भी किया। अमर उजाला



बच्चों को निराल्क शिक्षा देने वाले शिक्षकों को सम्मानित करते भ्रमरा महिला मोर्चा की महामंत्री कविता यादव त्रिपाठी। अमर उजाला



इति
विभा



राष्ट्रीय विज्ञान अकादमी (नासी) में सोमवार को हुए कार्यक्रम में नासी विज्ञान शिक्षक पुरस्कार विजेता डॉ. हेमलता रावला एवं नवीन गुने को सम्मानित किया गया। उनके साथ पूर्व नासी विज्ञान शिक्षक पुरस्कार विजेता डॉ. मोहम्मद मसूद, डॉ. लालजी यादव, डॉ. पीके घोष, संजय श्रीवास्तव भी सम्मानित किए गए।



शिक्षक दिवस पर जिला अपराध



भारत इलेक्ट्रॉनिक सरकार के इलेक्ट्रॉनिक्स कश्मीर साइट
पद नाम
परियोजना
अभियंता

One Day Workshop On

"NEP 2020: A Visionary Roadmap towards Transforming Indian Education Focused on Science, Technology, Research and Skill Development."

Organized By



**Faculty of Science & Faculty of Commerce
Karim City College, Jamshedpur
In Association with**



**The National Academy of Sciences (Jharkhand Chapter)
C/o CSIR National Metallurgical Laboratory, Jamshedpur, India**

Date: 05.09.2022(Monday)

Venue: Karim City College Auditorium, Jamshedpur

**Contact : +91 7631165700
website: www.karimcitycollege.org**

**Email: office@karimcitycollege.org
foc.kcc@gmail.com
moazzam.nazri@gmail.com**

Introduction

Education is of utmost priority for any developing nation in the world. The growing youth population in India is increasing, and so is the use of science and technology and changing dynamics of the labour market which have thrown up many challenges as well as opportunities for policymakers today. It is a need of the hour that all efforts be made to equip our youths with employable and entrepreneurial skills so that they do not only cope with the changing world but also become active agents of positive change. Skills play a pivotal role in the optimum utilisation of human resources towards sustainable economic growth and social development for any nation. We need to prepare our youth for future entrepreneurial skills to earn their livelihoods and realise their aspirations. Our campuses of higher education need to be transformed. All aspects of academia like teachers, administrators and students at our colleges and universities need to involve themselves in achieving the major goals. Our education needs to be aligned with advanced technologies, opportunities, and challenges for which the National Education Policy - 2020 provides a boundless and visionary road map. With the world witnessing several developments such as the COVID-19 pandemic and expanded globalization, the future of any nation, demands in every sphere, radical transformation and the education model needs to be reassessed to meet the global needs and challenges.

Objectives

NEP-2020 is a comprehensive framework for the development of education in the country. In the current Indian scenario, the employment opportunities are considered that the unskilled jobs are taken over by artificial intelligence and there seems to be more demand for skilled labour. Further more, new demands for Humanities, Arts and Sciences are perceived. This has led to the revelation that students should know how to learn. They need to be creative and skilled in multi-disciplinary areas and be able to innovate, adapt and absorb new things. Technology has a major role to play in all aspects of life. Fostering these multi-disciplinary skills in students, the education needs to focus on critical thinking, problem-solving, thought-provoking learner-centric, experiential, holistic and flexible models. The main aim of NEP-2020 is to create an effective global education system to be imbibed in Indian ethos. The objective of this workshop is to bring awareness about National Education Policy 2020 among the stakeholders and to foster the path of implementation.

Scope:

- Innovative Approaches to Remediate Issues in Basic Science, Research & Education-An Adaptive Competence Development Approach.
- NEP & Environmental Science.
- National Education Policy on Higher Education: Challenges and Solutions
Holistic and multi-disciplinary education – Integrating Humanities , Arts with Sciences STEM (Science, Technology, Engineering & Mathematics)
- “NEP-2020: A Visionary Roadmap for Transforming Indian Education towards Entrepreneurial Skill Development, Innovation and Research.”
- Ecosystem for multi-disciplinary education, research and funding - Quality Academic Research through National Research Foundation.



Govt. Madhav Sadashivrao Golwalkar College, Rewa(M.P.)

Accredited by NAAC with 'B' Grade



NATIONAL WEBINAR

(SERIES – VTH)

ON

**“Heritage Sites, National Parks, Tiger Reserves, WLS and Botanical Gardens,
Zoological Parks, Museums of India- Identification, Conservation, Management”**

Date: 27th August - 5th September, 2022, Time: 10:30 AM - 5:00 PM

-: Organized by :-

BHAIRAV BABA REWA

Department of Botany in Collaboration with IQAC

&

In Association with the National Academy of Sciences India- BHOPAL CHAPTER



Inaugural Lead Speaker

Dr. Sabyasachi Mukherjee

Director General Chhatrapati Shivaji
Maharaj Vastu Sangrahalaya(CSMVS)
Museum, Mumbai



Special Lead Speaker

Dr. B. R. Mani

Former Director General National
Museum Delhi Vice Chancellor NMI



Lead Speaker

Dr. K. Venkataraman

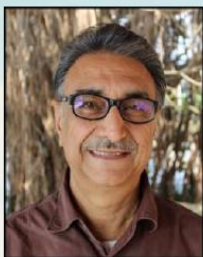
Former Director Zoological Survey of
India Expert Member NCSCM
Chennai



Lead Speaker

Professor S. R. Yadav

UGC BSR Faculty Fellow & INSA
Senior Scientist Botany Deptt. Shivaji
University Kolhapur, Maharashtra



Lead Speaker

Dr. Sudesh Kumar Wadhawan

Formerly Director General
Geological Survey of India, Jaipur
Rajasthan



Lead Speaker

Dr. Pradip Sarmokadam

Member Secretary - Goa State
Biodiversity Board Goa, India



Lead Speaker

Dr. Ramakrisna

Former Director Zoological Survey of
India Bengaluru, Karnataka



Lead Speaker

Dr. S. B. Ota

Formerly Joint Director General
Archaeological Survey of India



'S&T based Entrepreneurship Development'

Celebrating 75 years of India's independence



Jointly organized by

National Botanical Research Institute (CSIR-NBRI), Lucknow

The National Academy of Sciences, India (NASI), Prayagraj

&

Biotech Consortium India Limited (BCIL), New Delhi

(Hybrid Mode)

Date: September 12th & 13th, 2022

Tentative Programme

(To be compered by Dr. Niraj Kumar, ES, NASI)

Day-1: September 12th, 2022

Registration: 9:00 - 10:00 am

Opening Session (10:00-11:00 am)

Welcome Address

(10:00 - 10:10 am)

: Prof. S K Barik

Director, CSIR-NBRI, Lucknow

Opening Remarks

(10:10 - 10:20 am)

: Prof. V P Kamboj

Former Director, CDRI, Lucknow;

Past President, NASI

NASI's Programme on

'Entrepreneurship Development'

(10:20 - 10:40 am)

: Prof. Manju Sharma

Former Secretary to the Govt. of India, DBT;

Chairperson, NASI's New Initiatives

Theme Address

(10:40 -10:50 am)

: Prof. V Ramgopal Rao

Former Director, IIT Delhi

Presidential Remarks

(10:50 - 11:00 am)

: Prof. Ajoy Ghatak

President, NASI

The programme was continued till Sept. 13, 2022.





Women in Science Lecture Series



On the Eve of the 75 years of Independence, the National Academy of Sciences, India (NASI) is celebrating Azadi Ka Amrit Mahotsav through different science and society initiatives. As part of NASI's science and society initiative, Delhi Chapter of NASI and Jaypee Institute of Information Technology (JIIT, Noida) will jointly organize a series of lectures entitled, "Women in Science Lecture Series". All the lectures of this series will be delivered by the eminent Women Scientists. The lectures will be aimed to motivate young female students involved in UG, PG and PhD programs to continue science. All the talks will have two parts. In one part, the speaker will speak lucidly about her research works and the other part will be focused to inculcate confidence among the young students that even they can do top-class science and thus contribute to the society. Some practical problems that a growing scientist faces and how to circumvent those may also be discussed during the interaction sessions at the end.

Kindly make it convenient to join and encourage your students to actively participate in the discussion.

LECTURE-7

About the Speaker

Dr. Ankona Datta is Associate Professor in the Department of Chemical Sciences, Tata Institute of Fundamental Research (TIFR), Mumbai. Dr. Datta's research interest covers broad field of organic and inorganic chemistry with an emphasis on chemical biology and molecular imaging. Her research group develops different chemical tools to track essential biomolecules and second messengers *in vivo*. The mode of operation is to design and synthesize selective fluorescence and magnetic resonance imaging probes that can image target molecules in living systems. The ultimate aim is to apply the tools to visualize and track crucial small molecules and ions involved in regulation of essential life processes like cell signalling, autophagy, and neural activity. Her research interest include imaging metal ion trafficking and its implications in neurodegenerative diseases, apoptotic signals in cancer and peroxidase activity up-regulation in atherosclerosis.

Topic: Smart Sensors Capture Life in Action

All living things are made of molecules. However, molecules in living systems are not static. In fact, temporal changes in molecular distribution drive essential life processes. Can we visualize this intricate molecular dance in living systems? If yes then how? Come find out how we design 'smart molecular sensors' that can capture biological molecules live in action.



Dr. Ankona Datta

[More info. about the speaker](#)

Date & Time:

Sep 23, 2022 04:00 PM (IST)

Zoom Link:

<https://us02web.zoom.us/j/86307548164?pwd=aU4yYkdoQjVHdk5pU0daczhPRU5VUT09>

Meeting ID: 863 0754 8164

Pass code: 046650

YouTube Live Telecast:

<https://www.youtube.com/channel/UCWqXoRptNM7-cEgkxthRCFg>



Prof. Annapurni Subramaniam

[More info. about the speaker](#)

Date & Time:

Sep 26, 2022 04:00 PM (IST)

Zoom Link:

<https://us02web.zoom.us/j/86424540897?pwd=MVZETFlpZDZtbVpLbnRjQjRlOVleQ0Q1O9>

Meeting ID: 864 2454 0897
Pass code: 851473

YouTube Live Telecast:

<https://www.youtube.com/channel/UCWqXoRptNM7-cEgkxthRCFg>

LECTURE-8

About the Speaker

Prof. Annapurni Subramaniam is the director of the Indian Institute of Astrophysics, Bangalore. She works on areas like star clusters, stellar evolution and population in galaxies and Magellanic clouds. Prof. Subramaniam's major field of research includes: Star clusters (open and globular), Star formation and pre-MS stars Classical Be & Herbig Ae/Be stars, Galactic structure, Magellanic Clouds and Stellar population. She is an active member of the International Astronomical Union. Prof. Subramaniam's current research interests are: Star formation history of young star clusters, Accurate photometry of unstudied open clusters, Stellar population in the Large Magellanic Cloud, Outer limits Survey: Magellanic Clouds etc.

Topic: Astronomy from Ground and space - My journey

My career in astronomy is primarily done in India. I have developed expertise in ground and space-based astronomy and carry out research in stars and galaxies. In this talk, I shall present some highlights of my research along with snapshots of my personal journey in research.

To attend these talks and receive announcements of other talks of this series kindly fill the form <https://forms.gle/ehFrhwYrEUxGLVjv6>

Convener

Prof. Anirban Pathak Email: anirban.pathak@jiit.ac.in

Prof. Papia Chowdhury Email: papia.chowdhury@jiit.ac.in

DEPARTMENT OF PHYSICS AND MATERIALS SCIENCE AND ENGINEERING
JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY
A-10, Sector-62, Noida-201 309, Uttar Pradesh, India

Cauvery Gallery opens at Exhibition Grounds

Visually appealing Gallery to be open on all days; entry fee not decided

Mysuru, Sept. 18 (GA&BCT)-

The Cauvery Gallery that has been set up at Karnataka Exhibition Authority (KEA) Grounds showcasing the life, culture and biodiversity of the River from its birth at Talacauvery in Kodagu till it reaches the Bay of Bengal at Poompuhar in Tamil Nadu opened to the public last evening.

District Minister S.T. Somashekar did the honours and went around the Gallery with the fine points, concepts and technology being explained to him by K. Sadhana Attavar, Director, Visvesvaraya Industrial and Technological Museum, Bengaluru.

The Gallery will be open throughout the year and the entry fee has not yet been decided. Mostly it will be Rs. 20 or at the most Rs. 30 per visitor, he said.

There are many multimedia features and electronic display at the Gallery that provides visitors with an immersive experience of life and culture along the River. "For people of Mysuru, Mandya and Bengaluru, the Gallery holds utmost importance as the River is the lifeline. In addition, it will be a valuable resource for research scholars," he said.

The 19,000 sq.ft visually ap-



K. Sadhana Attavar, Director, Visvesvaraya Industrial and Technological Museum, Bengaluru, takes Minister S.T. Somashekar and others along the Cauvery Gallery last evening. Picture right shows a sculpture of a villager going on a fishing trip on a coracle.

pealing Gallery with many 3-D presentations has been built jointly by Karnataka Knowledge Commission and Tourism Department. It has been modelled as per the design, specifications and imagination of the National Academy of Sciences, India (NASI) at a cost of Rs. 3.5 crore.

The project is based on research conducted by the National Council of Science Museums (NCSM). Officials of NASI and the State Tourism Department had signed an agreement to establish the Gallery in the KEA complex (at Kannada Karanji).

It is the first river Gallery in South India and the third such one in the country. There is a Gallery for River Brahmaputra in Guwahati and River Ganga in Allahabad. The Gallery, through multimedia and 3-D features, highlights the geological and ecological characteristics of the Cauvery River apart from projecting the social and cultural characteristic features of civilisation that have evolved along the river bank.

At the Mysuru Gallery, there are many artefacts and life-size dolls that narrate the story of the

River. Pictures, live visuals and models of the river flowing from one part to another criss-crossing the hills and plains will narrate the Cauvery story.

Apart from allowing a visitor to have a glimpse of visually appealing scenes all through the journey of the river, the Gallery will screen movies and documentaries on Cauvery. After the viewers see the Gallery, there will be a 20-minute short film on Cauvery. The overall message will be conserving the river and increasing green cover around the river for sustenance. In ad-

dition, places and industries that are polluting the river are shown to spread awareness. Along with the visual representation of various communities that have a close affinity with Cauvery like the Kodava community that finds representation in the Gallery, prominent waterfalls like Shimsha, rugged terrain like Mokedatu and picturesque Hogenakkal have found a place.

Mayor Shivakumar, Dy. Mayor Dr. G. Roopa, City BJP President T.S. Srivatsa, KEA Chairman Mirle Srinivas Gowda and CEO K. Rudresh were present.

