### The National Academy of Sciences, India

### 5, Lajpatrai Road, Prayagraj-211002, India





### Summary of the Activities, held in the month of January 2023

- 1. The report of the Biotechnology Open House Programme (which was organized in the end of December 2022), has been received (enclosed herewith-Annex. 1). The aim of hosting this event was to expose the high school students to the latest trends in diverse fields of Biotechnology; the programme was very much successful.
- 2. The "**Pride of India Expo,**" was held concurrently with the 108th **Indian Science Congress** at RTM Nagpur University, Nagpur from January 3rd to 7th, 2023; the NASI also participated in the programme and established its corner with the display of the exhibits (please see the detailed report-Annex.2).
- 3. Workshop on Materials for Energy and Sustainability (please see the program-Annex. 3) was organised by the NASI-Jharkhand Chapter on 20th January 2023 in joint collaboration with the CSIR-NML, Jamshedpur; it was attended by several Fellows/Members/Students, and the programme was very successful.
- 4. A conference on 'Recent Trends in Space Sector' was organized by the NASI-Hyderabad Chapter on 20<sup>th</sup> Jan. 2023 in joint collaboration with other esteemed institutions at Hyderabad (Annex. 4).
- 5. A Meeting of the Inter- Academy Panel on 'Women in STEMM' is scheduled to be held on Jan. 28, 2023 at NASI, Prayagraj; the report will be sent soon after that.
- 6. A one day Science Communication Programme jointly with the celebration programmes of the Constitution Day, will be held on 31<sup>st</sup> Jan. 2023 at NASI, Prayagraj (Annex. 5).
- 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.









#### **BIOTECHNOLOGY OPEN HOUSE PROGRAM**

University School of Biotechnology organized a Biotechnology Open House for school children on 20<sup>th</sup> -21<sup>st</sup> December 2022 as part of Silver Jubilee celebrations of the University. This event was supported by the National Academy of Sciences-Delhi Chapter and the IPU-Innovation and Incubation Foundation. The aim of hosting this event was to expose the high school students to the latest trends in diverse fields of Biotechnology. Over 60 students from classes 10<sup>th</sup> -12<sup>th</sup> from Sri Venkateshwar International School, St. Gregorios School, Delhi International School Edge and Paramount International School attended the event. Students were given informative lectures on cutting-edge research in the fields of Plant and Animal sciences, Microbiology and Bioinformatics. A campus tour was given by B.Tech./M.Tech. students to showcase landmark facilities in the campus such as the Atal Incubation Centre, Greenhouse, Library, Sewage Treatment Plant and Biowaste Disposal Facility. After a relaxing lunch in campus lawns children and teachers visited Biotechnology research labs and interacted with research scholars. They attended hands-on-training sessions and scientific demonstrations in the fields of Moss Epigenomics, Yeast Biology, Cancer Biology, Virology, Proteomics and Cell Biology. At the end of the day-long program teachers were felicitated and students were given Participation Certificates by Dean USBT. Students and teachers were highly impressed and found the event extremely informative. Feedback from students and teachers showed majority found the program "Excellent" and more than 75% of the students said they may consider taking up Biotechnology as their career option.









# University School of Biotechnology



Prof. Meenu Kapoor Dean USBT







**GURU GOBIND SINGH** 

#### INDRAPRASTHA UNIVERSITY

NEW DELHI

#### IPU INNOVATION & INCUBATION FOUNDATION (IPU-IIF)

#### (CIN: U80300DL2021NPL390329)

The PU innovation & incubation Foundation (PU-IIF) is set up as Not for Profit

The Pur incompany is modeless if our cash or pre-service is need the Pre-section of Company.
 The foundation is founded or pre-moting and mabbling Research & Development (RAD), innovation and incombine netwines in the Case October Singh hospinative University (COSSPU) by creating internally and externally.

he Objectives of IPU Innovation & Incubation Foundation (IPU-IIF) are to:

Provide 360 degree incubation support to nex promising and providing technology based start upcompanies in the areas of (TETES, Clean Suchoopy, Control of the Control of the Control of Control of Control of Control Management (Applications of Tool Suchoopy, Physics, Sicked-Indiags, Electronics and Sections-August (Control of Control of C

Charle an enabling environment for nutriting the impactful ideas into commercialisable innovative products, technologies, services and 55T includy and enderties on one hand and with the hallonal Laborations and in the other hand.

More available incubates translational research facilities, incubation facilities, technological support system onlice space & support and an enabling ecosystem and to undertake help activates for incubatingentepreneurial modified, skills and expertise in an end to not name;

Develop and scale up lideas (beyond proof of concept), prototypes, products, technologies from tractionersity (scot) or those received from colonide the University into commercial entities and buildentrepreneurs around

Accept endowment funds/CSR funds and Grants for the registered anyind volvacions Company Ministry for meeting the objectives;

Connect snomissary with the National and International Innovation technology and business incubators in personar;

Cogaritie resources and services to enterpressure, including morking states and officer, first-includespersis, management mentoring, assessment in throughing an common production plant, invandamental test services, sectionals in comparing an fixeness resource plant, invandamental property and source of financing, markets as well as that admissions and set include.

f aciditate formation of a collaborative environment between industry and academia by developing and operationalising pred research projects and consulting ensignments.

# Interaction With Professors

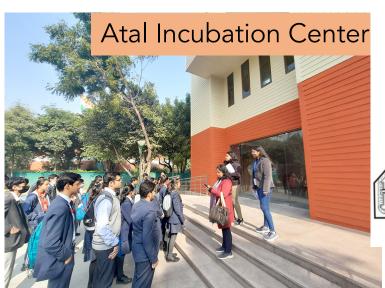




# Visit to Research/Teaching Labs



# Campus Tour

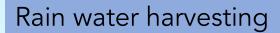














# Felicitations





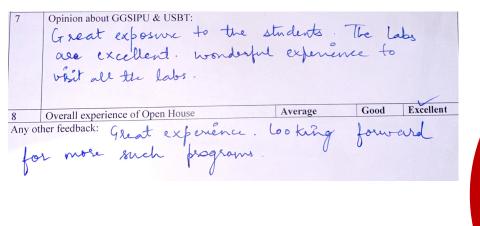








### Feed back



Opinion about GGSIPU & USBT: it was a great experience to visit the dabs and to interact with the projectors for me the most intresting lecture was the last one That was really interactive. In juture I would like to attend Soch events in future.

Rifferent labs and wioniers promate BioTech. And motivate children to take Biotech as Career. Very Beautifull Campus! Good Excellent

Opinion about GGSIPU & USBT: it was a great experience to visit the dabs and to interact with the progeners for me the most intresting lecture was the last one That was really interactive. In Juture I would like to attend Soch events in lutture.

#### Opinion about GGSIPU & USBT:

Its a very good and considerable carrier option.

Also to know more about this was a pleasure and sorted many things for future.

Opinion about GGSIPU & USBT: It was a gallet experience to visit the labs and have a one on one interaction with the professors as well as the students. It was intresting to to look science closer.

"Pride of India Expo," was held concurrently with the  $108^{th}$  Indian Science Congress at RTM Nagpur University, Nagpur from January  $3^{rd}$  to  $7^{th}$ , 2023.

The 108th Science Congress was virtually inaugurated by the **Hon'ble Prime Minister**, **Shri Narendra Modi**, in the august presence of Maharashtra's Governor, Sh. Bhagat Singh Koshyari, Union Ministers, Sh. Nitin Gadkari and Dr. Jitendra Singh, and Maharashtra's Chief Minister, Sh. Eknath Shinde, and Deputy CM, Sh. Devendra Fadnavis, among others.

The Pride of India Expo (POI) was inaugurated by the Hon'ble Minister of States (IC) for S&T and Earth Sciences, Dr. Jitendra Singh, in the presence of Deputy CM Sh. Devendra Fadnavis, Dr. S Chandrasekhar, Secretary DST and other dignitaries. The dignitaries took time out of their busy schedules to visit the expo and were impressed by all of the exhibitors' outstanding efforts to promote science and technology.

The PoI Expo received a tremendous response from the delegates and visitors. It had participation of almost all premier research institutions, innovators, govt depts corporates, educational institutes, start-ups etc. Thousands of national and international delegates, prominent R&D heads, policymakers, bureaucrats, distinguished scientists, ICT & allied industry leaders, technocrats & academicians, innovators, entrepreneurs, social activists, corporate & industry executives, lakhs of fervent students, and the general public attended the exhibition over the five days. NASI Exhibits also received very good response and wide publicity; it was showcased on the direction/suggestion of the DST/NASI-Council. Dr Santosh Shukla, AES, NASI displayed the exhibits there; and the Chairperson & other Officebearers of the NASI-Nagpur Chapter were also present there on this occasion (please see photographs enclosed herewith).







# Final Technical Program for Workshop on Materials for Energy and Sustainability 20<sup>th</sup> January 2023

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CSIR
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**Venue:** CSIR-NML, Jamshedpur

0900 AM

#### **Registrations** (NML Auditorium)

Annex. 3

#### 0945 AM onwards

#### **Inaugural Session (NML Auditorium)**

Time	Sub-Program	Moderator
0945	Welcome Address by Director, NML	Abhilash
0950	About NASI by Dr. Neeraj Kumar, Executive Secretary, NASI, Allahabad	Abhilash
0955	About the workshop by Dr. R.K.Sahu/Dr. S.G.Choudhary	Abhilash
1000	Introduction of Chief Guest- Dr. Karunesh Kr. Shukla, Director, NIT Jamshedpur	S.G.Choudhary
1005-1015	Inaugural Speech by Chief Guest	
1015-1025	Felicitations	Abhilash
1025	Vote of Thanks	RKSAHU/SGC

1030-1045	High Tea	
1045-1300	Technical Session-1	(Chairman: Dr. Arvind Sinha)
1045	Keynote Talk: Dr. Pralay Maiti, IIT BHU, Vara Sustainability in the Energy Sectors using Po	
1130	Invited Talk: Dr. Mamoni Dash, Institute of Life Sciences, Bhubaneswar Polymers as bio-materials	
1200	Invited Talk: Dr. Srabanti Ghosh, CSIR-CGCF Surface Engineering of Functional Nanostruc	
1230	Invited Talk: Dr. Basab Chakraborty, IIT Kharagpur Energy storage in e-mobility	
1300-1415	Group Photograph followed by Lunch (NML	- Auditorium)
1415 -1530	Technical Session-2	
	E Doctor Drocontations in Auditor	···

#### **E-Poster Presentations in Auditorium**

**1545-1630** Valedictory Session with Best E-Poster Awards

Distribution of Participation Certificates











### Academy for Science, Technology & Communication, Hyderabad Jointly with

#### National Academy of Sciences, India - Hyderabad Chapter

Cosponsored by

National Geophysical Research Institute, Hyderabad National Remote Sensing Centre, Hyderabad Space Federation of India, Hyderabad

### Cordially invites to the Seminar on 'Recent Trends in Space Sector: New India'

Time: 9.30 am, 20th January 2023

Venue: Balakrishna Hall, CSIR- National Geophysical Research Institute (NGRI) Hyderabad

#### Dr. (Smt.) Tamilisai Soundararajan

Hon'ble Governor of Telangana & Hon'ble Lt. Governor of Puducherry has graciously agreed to be our Chief Guest

#### Dr. A. S. Kirankumar

Former Chairman, Indian Space Research Organisation has kindly consented to be the Guest of Honour & deliver keynote address

#### Dr. M.Ravichandran

Secretary, Ministry of Earth Sciences, Govt. of India has kindly agreed to be the Guest of Honour & deliver ASTC-Dr. S. Balakrishna Memorial Lecture

**Dr. Ch. Mohan Rao** Former Director, CCMB, Chairman, NASI -Hyd. Chapter

Dr. Prakash Kumar

Sri.C.L. Narasimha Rao

Director, NGRI, Hyderabad

Convenor-SAC, ASTC

# **Seminar on "Recent Trends in Space Sector - New India"**Jointly Organised by ASTC & NASI- and Co-sponsored by NGRI, NRSC and SpaceFed

### **Programme**

	20th January 2023
09.30 am:	INAUGURATION
09.30:	Arrival of Hon'ble Governor at the Balakrishna Hall, NGRI. Proceed to the dais & Presentation of Bouquet to the Chief Guest
09:30:	National Anthem
	Lighting of the lamp by the Chief Guest
09.33:	Welcome Address:  Dr. Prakash Kumar, Director, CSIR- NGRI
09.38:	About the ASTC and the Seminar: Sri. C.L.Narasimha Rao, Convenor-SAC, ASTC
09.42:	Message by the Guest of Honour:  Dr. M.Ravichandran, Secretary, MoES, Govt. of India
09.50:	Message by the Guest of Honour:  Dr. A. S. Kirankumar, Former Chairman, ISRO
09.57:	Presidential Address : <b>Dr. Ch. Mohan Rao,</b> Chairman-SAC,ASTC & NASI- Hyd.
10.02:	Felicitations to Space Start-Ups & eminent Scientists: <b>Dr. (Smt.) Tamilisai Soundararajan,</b> Hon'ble Governor of Telangana & Hon'ble Lt. Governor of Puducherry
10.08:	Address by the Chief Guest: Dr. (Smt.) Tamilisai Soundararajan, Hon'ble Governor of Telangana & Hon'ble Lt. Governor of Puducherry
10.20:	Presentation of Memento to the Chief Guest by the Chairman, ASTC
10.22:	Vote of Thanks: Sri. C.L. Narasimha Rao, Convenor-SAC, ASTC
10.24:	National Anthem
	09.30:  09:30: 09:31: 09.33:  09.38:  09.42:  09.50:  10.02:  10.08:  10.20:  10.22:

## CELEBRATING NATIONAL CONSTITUTION DAY

### Science Communication programme

Theme: New Education Policy and Scientific Temper

Date: January 31,2023 Time: 10.00 am to 3.00 pm

#### -- Programme ---

- Welcome & Introductory Remarks: Prof. U.C. Srivastava, Coordinator, Sc. Comm. Prog., NASI
- Thematic Lecture Dr. Niraj Kumar, Executive Secretary, NASI
- ❖ Technical Lecture-1: Prof. S.M.Prasad, Head, Dept. of Botany, University of Allahabad, Prayagraj
- Concluding Remarks : Prof. Madhoolika Agrawal, Dean, Faculty of Science, BHU, Varanasi; General Secretary, NASI

#### -- Break -

- ➤ Technical Lecture-2: Prof. C.K.Dwivedi, Former Head, Dept. of Electronics & Mass Communication, University of Allahabad, Prayagraj
- > Technical Lecture-2: Prof. B. Tripathi, Head Dept. of Mathematics, CMPPG, College, Praygraj

(Lunch tack will be served in between the programme)