



## **XXXVI Training Programme on Science Communication and Media Practice 2023-2024**

*A Brief Report*

*Organised by*

**INDIAN SCIENCE NEWS ASSOCIATION**

92, Acharya Prafulla Chandra Road, Kolkata- 700009

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Website: [scienceandculture-isna.org](http://scienceandculture-isna.org)

with active support from

**University of Calcutta  
Sister Nivedita University, Kolkata  
Vijaygarh Jyotish Ray College, Kolkata**



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## ABOUT THE ORGANIZATION

### INDIAN SCIENCE NEWS ASSOCIATION

The Indian Science News Association (ISNA) was founded by eminent scientists like **Acharya Prafulla Chandra Ray, Professor Meghnad Saha, Professor B. B. Ray, Professor N. R. Sen, Professor D. S. Kothari** and other stalwarts. The purpose was to promote diffusion of knowledge laying special stress on the progress of scientific studies in India and abroad and advocating methodical application of science to problems of national regeneration. With this objective in view, the ISNA has been publishing a journal *Science and Culture* for more than last eighty nine years.

ISNA also organises seminars, symposia and training programme on Science Communication and Media Practice to disseminate scientific knowledge and create awareness for the public.

## ABOUT THE TRAINING PROGRAMME

### Grooming Science Communicators

Present day India is a culmination of historical processes that dates back to the Indus civilization and probably beyond. Scientific research has led to our progress and continues to ensure India's prominent position in the world of nations. However, it remains a great disadvantage for all of us that science, even today in this country, remains largely confined to laboratories and universities. The dissemination of scientific knowledge among the masses is an urgent necessity. The Indian Science News Association (ISNA) took on its shoulders the responsibility of grooming those who would take science to the masses. Since 1983 the organization has remained focused on conducting a certificate course on Science Communication and Media Practice. **ISNA** has not only trained students but also produced books, videos, CDs, etc. that continue to serve as effective study material for the trainees. The course includes lectures, workshops, field visits, hands-on experience and orients the students in such a fashion that the learner gets a good exposure to the unfolding secrets of science and technology as well as gains the ability to communicate the same to the masses through print and audio visual media.

### Outline of Course Contents

1. Communication and journalism
2. Media study
3. The art of writing and editing
4. Science communication through audio-visual media
5. The art of conducting Interview

6. Science, society and ethical issues
7. Science Communication through Social Media, YouTube, Facebook, Twitter, Instagram
8. Lectures on Eminent Indian Scientists and current topics of science
9. Classroom presentations, debates, slogan writing and workshops
10. Audio-visual documentary and Science Newsletter production
11. Interactive sessions, Projects, Visits and Feedbacks

### **Eligibility**

Applicants should be either graduates in any stream or final year examinees. Those having interest in science writing / reporting in newspaper / periodicals / electronic media / social media will be preferred. Applicants will be selected after a written examination and counseling. The decision of the Organizing Committee will be final regarding selection.

### **Duration of the Course**

The duration of the course is about four months, June-September 2023, classes being held five- days a week, **including some Saturdays for workshops and visits**. Visits may also be held on any weekday in the day time. The classes will be held between 6.00 p.m. and 8.00 p.m. in the Rajabazar Science College Campus of the University of Calcutta at 92, Acharya Prafulla Chandra Road, Kolkata - 700 009.

### **Admission Procedure**

The application form at Price a Rs. 100 for the course may be obtained from the office of the Indian Science News Association, 92, Acharya Prafulla Chandra Road, Kolkata - 700 009 downloaded from ISNA website (Notice Board). The application form, duly filled in, should reach by May 15, 2023. Last academic Certificate / Marksheet must be enclosed.

### **Certificate**

Certificates will be issued at the end of the course to those who will qualify in the final examination, after attending at least 80% classes and completion of class room presentation, the project assigned and evaluated by the committee.



**XXXVI TRAINING PROGRAMME ON SCIENCE COMMUNICATION  
AND MEDIA PRACTICE 2023-2024**

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The following activities were carried out under the XXXVI Training Programme on Science Communication and Media Practice 2023-2024:

- ❖ XXXVI Training Programme on Science Communication and Media Practice 2023-2024 held between 16 June and 25 September, 2023.
- ❖ Birth Anniversary Celebration of Professor Meghnad Saha, Certificate Award Ceremony of the XXXVI Training Programme on Science Communication and Media Practice 2023-2024 and the release of Volume 3, Issue 1 of *e-Paper Scientifica Communica* on 6<sup>th</sup> October, 2023.
- ❖ Release of Bengali *e-Paper Bigyan Kahon* Volume 3, Issue 1 on 29<sup>th</sup> February, 2024.

# **A Report on the Activities of the XXXVI Training Programme on Science Communication and Media Practice 2023-2024**

## **Inauguration**

The XXXVI Training Programme on Science Communication and Media Practice 2023-2024 was conducted by Indian Science News Association (ISNA). The inaugural ceremony of the XXXVI Training Programme was held on 15 June, 2023 at 4.30 p.m. in the N.R. Sen Auditorium, University of Calcutta, Rashbehari Siksha Prangan, Rajabazar Campus.

Many luminaries were present in this event both as speakers and guests. The programme was started by officially welcoming the invited speakers. The first to speak was Shri Prasanta K. Bose, Chairman, Training Programme. He gave a brief introduction to the course and also talked about late Professor Biswapati Mukherjee who was the former Chairman of the programme. Next, Professor Manas Chakrabarty, Honorary Secretary of ISNA, informed the gathering about the history of the organisation and its significance. The organisation was founded in 1935 through the initiative of Acharya Prafulla Chandra Ray, Professor Meghnad Saha and others. He also talked about how the society's journal, *Science and Culture*, has been running continuously since its first publication in June, 1935. The training programme which was being inaugurated today was first introduced in 1983. The next speaker was Dr. Rajarshi Mitra, Associate Professor and Head, Department of Environmental Science, Vivekananda College, Thakurpukur. He focused his speech on how this course of which he was a student more than twenty years back, completely changed the course of his life by equipping him with several skills which proved to be very useful throughout his career. He stated that he would not be where he is today if he had not joined the training programme. Veteran journalist and public relations expert Mr. Biswarup Mukherjee was the next Guest of Honour to speak at the event. He recounted his experiences in the field of science journalism and shared important insights about science communication and the practices associated with it. After his talk, Swami Kamalasthananda Maharaj, Principal of Ramkrishna Mission Vivekananda Centenary College, who was the Chief Guest, delivered his speech. He started off by recounting some fascinating events from his own life as a student and went on to talk about the nature of science and science communication. After this, the students who joined the XXXVI Training Programme were handed out bags containing certain materials pertaining to the organisation and the programme.

The last speech was the Third Professor Biswapati Mukherjee Memorial Lecture which was delivered by Dr. Atanu Pal, Assistant Professor, Department of Nephrology, Ex-Assistant Professor, Department of Rheumatology, Institute of Postgraduate Medical Education and Research (IPGME&R) and SSKM Hospital. The theme of this speech was the linkage between Ayurveda and Allopathy and the trajectories of their development. Dr. Pal highlighted how Ayurveda, like modern medical science, also has specialisations, although in lesser numbers. He traced the history of the growth and development of both these bodies of knowledge and stressed on the importance of detoxification and prevention of diseases through ayurvedic means. He expressed his hope that in the future both these corpuses of knowledge could be drawn upon to make medical science more effective, instead of viewing ayurveda and allopathy at odds with each other. The programme was presided over by Professor Sudhendu Mandal, Editor-in-Chief of *Science and Culture*. He stressed on the significance of communicating and spreading scientific knowledge and temperament and also gave some interesting snippets from history

related to the cultivation of science. Throughout the event, all the guests were introduced by Dr. Amit Krishna De, Honorary Secretary of ISNA and Convener, XXXVI Training Programme 2023-2024.

The event, which saw the congregation of various personalities linked to science and science communication, along with students, ended with the vote of thanks delivered by Professor Prabir Kumar Saha, Honorary Treasurer, ISNA.

## **Brief Report on the Training Imparted**

### **Classes**

Twelve students were enrolled in the course.

Fifty five theoretical classes were held during this period.

The classes started form 16<sup>th</sup> June, 2023 and ended with a final examination held on 25<sup>th</sup> September, 2023 (Blended mode).

### **Workshops**

Eight workshops were arranged on the following topics:

1.	05/07/2023 to 08/07/2023	Science Communication through Social Media	Dr. T.V. Venkateswaran and Mrs. Jyoti Singh	online
2.	22/07/2023	Audio-visual Content Creation (Documentary Production)	Mrs. Jhumur Datta Gupta, Shri Satyajit Samanta Shri Souvik Sur	Sister Nivedita University, Kolkata.
3.	09/08/2023	Science Communication through Puppetry	Dr. Sima Mukhopadhyay	University of Calcutta, Rashbehari Siksha Prangan
4.	20/08/2023	World Photography Day	Dr. Arnab Kumar Banerjee	Vijoygarh Jotish Ray College
5.	09/09/2023	Developing a Tabloid Based on Science News and Features	Dr. Arnab Kumar Banerjee	Vijoygarh Jotish Ray College
6.	15/09/2023	Digital Tools, Fact- checking & Source Verification	Shri Joydeep Dasgupta	University of Calcutta, Rashbehari Siksha Prangan

## **Visits Museums, Media Houses and Scientific Institutes**

During this period visits to the various important Scientific Centers, Museums and Media Centers were arranged as follows:

- i) Acharya P.C. Ray Museum at University of Calcutta, Rashbehari Siksha Prangan, Kolkata
- ii) Acharya Satyendra Nath Bose Museum at Bangiya Bijnan Parishad, Kolkata
- iii) Birla Industrial and Technological Museum (BITM), Kolkata
- iv) The Asiatic Society, Kolkata
- v) National Library, Kolkata
- vi) Calcutta Police Museum, Kolkata
- vii) CID West Bengal
- viii) Zoological Garden, Alipore
- ix) Science city, Kolkata

## **Meet the Scientists**

To acquire practical knowledge as a part of the course, arrangements were made for the students to meet renowned scientists and take their interviews. Students met many dignitaries, stated below, and got the opportunity to take their interviews:

- i) Dr. Sumitra Chaudhuri, President, Bangiya Bigyan Parishad
- ii) Shri Anurag Kumar, Director, Science City
- iii) Dr. Subhabrata Roychaudhuri, Founder Secretary, Science Association of Bengal
- iv) Dr. Satyabrata Chakrabarti, General Secretary, The Asiatic Society, Kolkata
- v) Shri Abhijit Bardhan, General Secretary, Science Communicators Forum

## **The students participated in the following programmes:**

- Celebration of the Foundation Day of ISNA
- Seminar on the occasion of the Birth Centenary Celebration of Gopalamudram Narayanan Ramachandran at The Asiatic Society
- Ninth Professor Asima Chatterjee Foundation Oration at Meghnad Saha Auditorium, University of Calcutta

## **Debate Competition**

Debate competition was arranged for the participants.

Topic: Social Media Help Children More Than Print Media

After completing the scheduled classes and visit programmes, examinations were held in three steps.

## **Examination**

There were three types of examination as follows:



- i) Class Room presentation through Power Point
- ii) Project Writing
- iii) Final written examination

The final examination was held on 25<sup>th</sup> September, 2023. The results were declared on 6<sup>th</sup> October, 2023 in the Certificate Award programme.

### **Birth Anniversary Celebration of Professor Meghnad Saha, Certificate Award Ceremony of the XXXVI Training Programme on Science Communication and Media Practice 2023-2024 and the release of Volume 3, Issue 1 of *e-Paper Scientifica Communica***

Indian Science News Association (ISNA) paid homage to Professor Meghnad Saha, a pivotal founder Secretary of ISNA, and Editor of the journal *Science and Culture*, on the 6th October, 2023 in the N.R. Sen Auditorium, University of Calcutta, Rashbehari Siksha Prangan, Rajabazar Campus. It was organized as a part of the XXXVI Training Programme on Science Communication and Media Practice (TPSCMP) 2023-2024.

At the outset, Dr. Amit Krishna De, an Honorary Secretary of ISNA, informed the audience about the main reason for holding the programme. Dr. De, being the Convener of the XXXVI TPSCMP 2023-'24, stated about the activities of the Training Programme in every year since 1983. In a brief speech, Shri Prasanta K Bose, the Chairman of the Organizing Committee of the TPSCMP, delivered welcome address and talked about Professor Saha's contribution towards the development of free India. His short but valuable speech impressed the audience.

The next speaker was Professor Manas Chakrabarty, another Honorary Secretary of ISNA. In a very emotional way he narrated how Professor M.N. Saha became a member of India's intelligentsia. Professor Chakrabarty also spoke about the creation of ISNA and *Science and Culture* by M.N. Saha, along with Acharya P.C. Ray and others, his writings on river management, railway construction, India's need for power development, etc. in *Science and Culture*, his criticisms of the science policies of the Indian Government, and his role to create the National Planning Committee. He also mentioned briefly on Saha's accomplishments in thermodynamics, spectroscopy and quantum theory. Professor Anirban Kundu, Department of Physics, University of Calcutta, was the next speaker. He mentioned that M.N. Saha joined Calcutta University as a Professor in 1916. Sir Taraknath Palit contributed a huge amount of money for the construction of a laboratory within Rajabazar Science College Campus. In that laboratory, Professor Saha prepared a cyclotron machine, which opened a new path in the field of research of Science. He was the pioneer in the field of Astrophysics in India and was the first to inform the world that the stars of the sky always follow the rules of Physics. Professor Saha was instrumental in making Allahabad University a centre of excellence in scientific research. Professor Kundu also explained Saha's original theory on Sun's atomic structure.

The Chief-Guest Professor Anupam Basu, Raja Ramanna Chair Professor of Jadavpur University and Professor of Sister Nibedita University, very humbly told that Saha and other scientists were involved in research and education and were dedicated freedom fighters too. He mentioned that Professor Saha was a diligent scientist and wholeheartedly worked for his country with his head held high to make important contributions to Science and Technology. In a very depressing mood, he told that the shadow of these great scientists is becoming hazy amongst the new generation. He encouraged students in the audience to know and follow Professor Saha's footsteps and work laboriously for the betterment of science. He gave emphasis on the hands-on experiments for the students. Then Dr. Basu released volume 3, issue 1 of the *e-paper Scientific Communica*.

Indian Science News Association humbly felicitated Professor S.K. Talapatra and Dr. Balaram Majumder, the two most senior members of ISNA, with 'Uttariyo, Memento and a sapling' for their long association with and fruitful contribution to ISNA and its activities.

The successful students of the XXXVI TPSCMP were given certificates on this occasion.

The main attraction was the extempore speech competition for the school students. 'Amar Chokhe Meghnad Saha' was selected as the topic of extempore speech in memoriam of Professor Saha. The students of Haryana Vidyamandir and Dumdum Ananda Ashram Sarada Vidyapith participated in the competition. Debarpan Ghosh from the former school and Samadrita Nayak and Moumita Acharya from the latter school made their mark in the speech and grabbed the first three positions. At last Professor Bikash K. Chakrabarti, Vice-President of ISNA and Ex-Director and Professor of Saha Institute of Nuclear Physics, delivered a speech on SINP. The whole programme was anchored by Tithi Roy and Dr. Saikat Kumar Basu, ex-students of TPSCMP.

## **Release of Bengali *e*-Paper *Bigyan Kahon* Volume 3, Issue 1 on 29<sup>th</sup> February, 2024**

Indian Science News Association observed National Science Day 2024 on the 29th February, 2024 at 4.30 p.m. in the N.R. Sen Auditorium, University of Calcutta, Rashbehari Shiksha Prangan, Rajabazar Science College. The theme for the Science Day 2024 was 'Indigenous Technologies for Vikshit Bharat'. Dr. Indranil Sanyal, former Director, National Council of Science Museums (HQ) was the Guest of Honour. The programme was presided over by Prof. (Mrs.) Julie Banerji, a Vice-President of ISNA and former Khaira Professor and Head of the Department of Chemistry, University of Calcutta.

The programme started with the Welcome Address by Professor Manas Chakrabarty, Honorary Secretary, ISNA. Professor Chakrabarty briefly stated about the glorious past, the motto and the current activities of ISNA. In mid-1935, ISNA was established by erudite educationists and science lovers like Acharya Prafulla Chandra Ray (its founder President), Shri Shyama Prasad Mookerjee, Sir U.N. Brahmachari and Shri S.C. Law (the three Vice-Presidents), Dr. Meghnad Saha and Professor Bidhu Bhusan Ray (the two Secretaries) and Shri Nikhil Ranjan Sen (the Treasurer). He mentioned about the

publication of *Science and Culture*, a bi-monthly magazine of ISNA since June, 1935 uninterrupted till date and about the 12-week-long ‘Training Course on Science Communication and Media Practice’ since the mid-1980s. The dream of the founders of ISNA to publish a journal for school students and a vernacular journal was partially fulfilled by publishing two *e-journals* - *Scientifica Communica* in English and *Bigyan Kahon* in Bengali. Prof. Chakrabarty further informed the audience that Prime Minister Narendra Modi announced (Dec. 11, 2023) about ‘Vikshit Bharat @ 2047, Voice of Youth’ through video conference, and that the theme ‘Indigenous Technologies for Vikshit Bharat’ for the NSD 2024 was announced by the Union Minister Shri Jitendra Singh on the 6<sup>th</sup> February, 2024. The four pillars of Vikshit Bharat, he told, are the youth, the poor, the women and the farmers. The vision of Vikshit Bharat is the development in these four areas by 2047, the hundredth year of India’s independence. Three technologies were transferred to 12 industries. These are: AI-based Thermal Camera, CNOS Camera and Fleet Management System.

The Vol. 3, Issue 1 of *Bigyan Kahon* and Vol. 90, Issue 1-2, 2024 of *Science and Culture* were formally released by the two respective Editors, *viz.* Shri Prasanta K Bose, the Chairman of the Training Programme, and Professor Sudhendu Mandal. Shri Bose stated about the genesis of the two *e-journals* and invited members of the audience to submit articles for these *e-journals* that are gaining increasing popularity. Professor Mandal informed the audience about the content of the particular issue of *Science and Culture*.

Dr. Indranil Sanyal, the Chief Guest, started his speech by referring to the outstanding discovery by Prof. C.V. Raman. He described that period as the golden age of Indian science. He mentioned about the initiation of colonial science at The Asiatic Society and the contributions of the Botanical Survey of India, the Geological Survey of India, the Calcutta Medical College, etc. in the development of Indian science. He told that the establishment of the Indian Association for the Cultivation of Science and Science College were two landmark stepping stones in this direction. Individual contributions by stalwarts like Raja Rajendralal Mitra, Prof. Jagadish Chandra Bose, Prof. Prasanta Chandra Mahalanabis and Sir Asutosh Mookerjee catalysed Indian science. He talked about Nehru’s vision to develop India on scientific basis and the contributions of scientists like Dr. Homi Jehangir Bhabh and others to fulfil this vision. He stated that the making of the new nation is dependent on the western scientific research and technology, but at present the Indian Government is promoting indigenous technologies. He mentioned that India has a rich heritage of great scientific and technological knowledge, especially in Mathematics, Surgery, Astronomy and Architecture. He cited examples in support and concluded his lecture with the hope of a bright future for India.

The next speaker was Prof. Julie Banerji who elaborated on the contribution of Raman Effect and the importance of observation of the National Science Day. She stated that the day is celebrated across India through lectures, radio and TV programmes, science movies, quiz competitions, making of models in various schools, colleges, technical and scientific institutions in India. She particularly mentioned about the Science Day themes from 2018 to 2023 and put special emphasis on the theme of 2024. She concluded her talk by highlighting the scientific achievements of India, *viz.* more than 90,000 patents filed in 2023, S&T ecosystem, Artificial Intelligence, Astronomy, Semiconductor, Biotechnology, Chandrayan 3, vaccine development, INS-Vikrant, DRDO, Bharat Biotech Covaxin and quantum technology.

The next speaker was Dr. Rupali Gangopadhyay, Associate Professor, Department of Chemistry, Sister Nivedita University. In her speech, she explained the importance of the National Science Day and its various themes. She spoke about the benefit of indigenous technology and the use of indigenous knowledge to improve upon the lives of humankind. In her view, the extraction of scientific knowledge from ancient days and making creative use of it are very much important for today's India. She cited examples of traditional things like dheki, pillow made of mustard seed, natural dye, primitive irrigational methods, various ingredients of fishing, organic farming, etc., all of which are still relevant in modern India.

The next event was the Prize distribution of 'National Level Inter-College and University Poster Competition' on 'Indigenous Technology for Vikshit Bharat', held at Vijaygarh Jyotish Ray College. Dr. Arnab Kumar Banerjee and Dr. Shilajit Barua of Vijaygarh Jyotish Ray College along with the dignitaries on the dais distributed the Prizes.

Ms. Manavi Jaiswal and Ms. Megha Chowdhury from the JIS University grabbed the 1st Prize. The title of their poster was 'Bioplastics - Panacea in the Era of Microplastics'. Shri Rudra Sankar Karmakar from Vijaygarh Jyotish Ray College got the 2nd Prize for his poster titled 'Innovative Approaches to Arsenic Removal: Harnessing Biochar and Microbial Insights'. The 3rd Prize went to Sk. Hazikul Alam and Shri Debjit Goswami of Mankar College for their poster 'Third Eye for Blind Person'. 'Special Appreciation Award' went to Ms. Deblina Jana from Scottish Church College for her poster 'Vascular-specific Expression of GUS and GFP Reporter Genes in Transgenic Potato Plants', Ms. Rajyashree Basu and Ms. Diya Ghosh from Lady Brabourne College for their poster 'India's Newest Breakthroughs in Science and Technology: Health, Environment and Agriculture', Ms. Kankana Mondal, Dum Dum Motijheel College and Ms. Pramita Biswas from Barasat Government College for their poster 'Climate Change' and Ms. Sourima Pal from Techno International, New Town for her poster 'Building a resilient Bharat with Technology made in India!'.

At the end of the programme, the vote of thanks was given by Prof. Prabir Kumar Saha, the Honorary Treasurer of ISNA.

**XXXVI Training Programme on Science Communication and Media Practice 2023-2024**  
(15<sup>th</sup> June 2023 to 25<sup>th</sup> September, 2023)

**1<sup>st</sup> Week**

15/06/2023	Inauguration and Third Professor Biswapati Mukherjee Memorial Lecture
16/06/2023	A B C of Science Communication <b>Shri Prasanta K. Bose</b> , Chairman, XXXVI Training Programme Former Chief Media Advisor, ER, American Centre

**2<sup>nd</sup> Week**

19/06/2023	Audio Script Writing <b>Dr. Manas Pratim Das</b> , All India Radio, Kolkata
20/06/2023	Career Opportunities in Science Communication <b>Dr. Amit Krishna De</b> , Honorary Secretary, ISNA; Convener, XXXVI Training Programme Former Advisor, ISCA
21/06/2023	What it takes to Communicate Science <b>Dr. T.V. Venkateswaran</b> , Scientist 'F', Vigyan Prasar, DST, Govt. of India
22/06/2023	History of Science Communication: In India as well as in the World <b>Dr. Sabyasachi Chattopadhyay</b> , Department of History, University of Kalyani
23/06/2023	Basics of Science Communication <b>Shri Prasanta K. Bose</b> , Chairman, XXXVI Training Programme, Former Chief Media Advisor, ER, American Centre

**3<sup>rd</sup> Week**

26/06/2023	Communication for Development of Society <b>Shri Samir Goswami</b> , Ex-Chief Public Relation Officer Eastern Railway & Course Coordinator, Roopkala Kendro
27/06/2023	Traditional Media <b>Dr. Amit Krishna De</b> , Honorary Secretary, ISNA; Convener, XXXVI Training Programme, Former Advisor, ISCA
28/06/2023	Writing Style <b>Dr Manas Pratim Das</b> , All India Radio, Kolkata
29/06/2023	Holiday (Id-uz-Zoha)
30/06/2023	Scientific Temperament <b>Shri Subir Ghosh</b> , Former Journalist and Public Relations Practitioner
01/07/2023	Visit: S.N. Bose Museum, Bangiya Bigyan Parishad at 2.30 p.m. and Meet: <b>Dr. Sumitra Chaudhuri</b> , President, Bangiya Bigyan Parishad at 3.30 p.m.

#### 4<sup>th</sup> Week

03/07/2023	New Media <b>Dr. Buroshiva Dasgupta</b> , Director, School of Media Communications Fine Arts & Design, Sister Nivedita University
04/07/2023	Training on Digital Safety and Online Security <b>Shri Jaydeep Dasgupta</b> , Editor News Sense, Trainer, GNI India Training Network
05/07/2023 to 08/07/2023	Workshop on Science Communication through Social Media  <b>Dr. T.V. Venkateswaran</b> Scientist F Vigyan Prasar, DST  <b>Mrs. Jyoti Singh</b> Communication Officer National Rabies Control Program National Center for Disease Control

#### 5<sup>th</sup> Week

10/07/2023	Improving Science Communication by the Tools of Digital Media <b>Dr. Bakul Srimany</b> , Dept of Journalism and Mass Communication, Vijaygarh Jyotish Ray College
11/7/2023	Science Writing <b>Shri Pathik Guha</b> , Renowned Writer, Anandabazar Patrika
12/07/2023	<b>Celebration of the Foundation Day of ISNA</b> Wednesday, 12 <sup>th</sup> July, 2023 at 4.00 p.m. in the N.R. Sen Auditorium, University of Calcutta, Rashbehari Siksha Prangan, Rajabazar Campus, 92, Acharya Prafulla Chandra Road, Kolkata-700009
13/7/2023	Challenges of Communicating Science <b>Professor Sankasashis Mukherjee</b> , Department of Nutrition, West Bengal State University
14/07/2023	Podcast <b>Dr. Bakul Srimany</b> , Dept of Journalism and Mass Communication, Vijaygarh Jyotish Ray College

### 6<sup>th</sup> Week

17/07/2023	<p style="text-align: center;">Visit: Acharya P.C. Ray Museum at University of Calcutta, Rashbehari Siksha Prangan, Rajabazar Campus at 3.00 p.m.</p> <p style="text-align: center;">and</p> <p>Acharya P.C. Ray  <b>Professor Manas Chakrabarty</b>, Honorary Secretary, ISNA and Formerly, Professor of Bose Institute</p>
18/7/2023	<p style="text-align: center;">Visit: Birla Industrial &amp; Technological Museum (BITM), 19A, Gurusaday Road Kolkata – 700 019 from 11.00 a.m. to 5.00 p.m.</p>
19/07/2023	<p>Media Law and Ethics including Environment Law  <b>Dr. Ratul Datta</b>, Assistant Information Officer, Information &amp; Cultural Affairs Dept, Govt. of West Bengal</p>
20/7/2023	<p>History and Recent Advances in Cancer Research  <b>Dr. Soumitra Kumar Choudhuri</b>  Formerly, Emeritus Medical Scientist, ICMR and HoD, IVCCC, CNCI, Kolkata</p>
21/07/2023	<p>Organic Farming  <b>Dr. Paritosh Bhattacharyya</b>, Advisor- Scope Organic Informatics, Ex-Director, National Centre of Organic Farming, Min. of Agriculture, Govt. of India</p>
22/7/2023	<p>Workshop on Audio-visual Content Creation (Documentary Production)  Sister Nivedita University at 11.00 a.m.  <b>Mrs. Jhumur Datta Gupta</b>, Assistant Professor, Department of Mass Communication and Journalism, Sister Nivedita University  <b>Shri Satyajit Samanta</b>, Assistant Professor, Department of Mass Communication and Journalism, Sister Nivedita University  <b>Shri Souvik Sur</b>, Faculty, Department of Mass Communication and Journalism, Sister Nivedita University</p>

### 7<sup>th</sup> Week

24/07/2023	<p>Geographical Aspects of Information in Media Practice  <b>Professor Lakshminarayan Satpati</b>, Director, UGC- Human Resource Development Centre, University of Calcutta</p>
25/7/2023	<p style="text-align: center;">Visit: Calcutta Police Museum at 3.00 p.m.</p> <p style="text-align: center;">and</p> <p>Introduction to Science Journals  <b>Dr. Amit Krishna De</b>, Honorary Secretary, ISNA; Convener, XXXVI Training Programme, Former Advisor, ISCA</p>
26/07/2023	<p>Life and Works of P.C. Mahalanobis and Contribution to Development of</p>

	Computers in ISI <b>Professor Devaprasanna Sinha</b> , Former Director, CAD CAM Consultants Pvt. Ltd, Kolkata
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27/7/2023	Science, Society Ethical Issues <b>Dr. Arun Kumar Chakraborty</b> , Former Director, National Library
28/07/2023	Writing Science for Neo-literates <b>Dr. Sima Mukhopadhyay</b> , Science Communicator
29/07/2023	Holiday (Muharram)

### 8<sup>th</sup> Week

31 /7/2023	Visit to Science City at 11.00 a.m. and Meet <b>Shri Anurag Kumar</b> , Director, Science City, Kolkata
01/08/2023	Cholera and Contributions of Dr. Dilip Mahalanabis <b>Dr. Manoj Kumar Chakrabarti</b> , Formerly, Emeritus Scientist ICMR-National Institute of Cholera and Enteric Diseases
02/08/2023	History of Moon Mission <b>Dr. K. Muraleedharan</b> , President, ISNA and Former Director, CSIR-CGCRI, Kolkata; CSIR-Emeritus Scientist, C-MET, Thrissur
03/08/2023	Life and Works of Some Eminent Scientists <b>Professor Syamal Chakrabarti</b> , Formerly, Department of Chemistry, University of Calcutta
04/08/2023	How to Prepare Projects <b>Professor Syamal Chakrabarti</b> , Formerly, Department of Chemistry, University of Calcutta

### 9<sup>th</sup> Week

07 /08/2023	Global Warming and Climate Change at 4.30 p.m. <b>Dr. Amit Krishna De</b> , Honorary Secretary, ISNA; Convener, XXXVI Training Programme, Former Advisor, ISCA
08/08/2023	Geopolitics of Climate Change and its Impact on Biodiversity of Conservation <b>Shri Saikat Kumar Basu</b> , Lethbridge University, Canada
09/08/2023 11.00 a.m.  5.00 p.m.	Workshop on Use of Puppetry in Science Communication at 11.00 a.m. <b>Dr. Sima Mukhopadhyay</b> , Science Communicator and Debate: Social Media helps Children more than Print Media to Learn Science at 5.00 p.m. Judges: <b>Shri Sayan Saha, Sk Jinnat Ali, Mr. Hashim Abdul Halim Barkati</b>
10/08/2023	Journey of Ayurveda: Ancient to Recent Avenue <b>Professor Tuhin Kanti Biswas</b> , Department of Kayachikitsa, J.B. Roy State Ayurvedic Medical College



11/08/2023	Ganga Pollution <b>Professor Manas Chakrabarty</b> , Honorary Secretary, ISNA and Formerly, Professor of Bose Institute
12/08/2023	Art of Science Communication with Special Reference to Documentary Films <b>Shri Nimesh Kapoor</b> , Scientist 'E' & Head, Science Films Division, Vigyan Prasar, DST, Govt. of India

**10<sup>th</sup> Week**

14 /7/2023	Visit to National Library
15 /08/2023	Holiday (Indian Independence Day)
16 /08/2023	Preparation of Scientific Reports <b>Dr. Minakshi De</b> , Former Professor of Surendranath College, Kolkata
17/08/2023	Online Meet with <b>Dr. Subhabrata Roychaudhuri</b> , Founder Secretary, Science Association of Bengal
18/08/2023	Importance of Wetland <b>Dr. Tapan Saha</b> , Treasurer, Bangiya Bijnan Parishad, Kolkata
19/08/2023	No Class
20/08/2023	Workshop and Exhibition on World Photography Day at Vijoygarh Jotish Ray College

**11<sup>th</sup> Week**

21 /8/2023	Visit to The Asiatic Society at 3.00 p.m. and Meet: <b>Dr. Satyabrata Chakrabarti</b> , General Secretary, The Asiatic Society at 4.30 p.m.
22 /08/2023	Change in Profession Due to Changing Environment <b>Mrs. Arpita Chakraborty</b> , Science Communicator
23 /08/2023	Science and Theatre <b>Dr. Srabanti Basu</b> , Professor of Heritage Institute of Technology
24/08/2023	The Bee Pandemic and It's Impact on our Ecology and Economy <b>Shri Saikat Kumar Basu</b> , Lethbridge University, Canada
25/08/2023	Online Meet with <b>Shri Abhijit Bardhan</b> , General Secretary, Science Communicators Forum
26/08/2023	Generative AI for Science Communicators <b>Shri Asish Das</b> , Press Institute of India

### 12<sup>th</sup> Week

28 /8/2023	Sustainable Development <b>Dr. Junaid Jibrán Jawed</b> , Presidency University, Kolkata
29 /08/2023	Discussion related to Classroom Presentation
30 /08/2023	Science Communication for Sustainable Tribal Development <b>Dr. S.B. Roy</b> , Chairman, Indian Institute of Bio-Social Research and Development (IBRAD)
31/08/2023	How to Prepare Projects <b>Professor Syamal Chakrabarti</b> , Formerly, Department of Chemistry, University of Calcutta
01/09/2023	Women Scientists <b>Dr. Sumitra Chaudhuri</b> , President, Bangiya Bigyan Parishad
02/09/2023	Visit to CID and Identification Through Handwriting <b>Shri Ujjwalendu Mukherjee</b> , CID West Bengal

### 13<sup>th</sup> Week

04 /09/2023	Power Point Presentation 1 and Finalisation of Mentors for Projects Judges: <b>Shri Koustav Bhowmik, Shri Chandan Kumar Patra, Shri Bibhas Kumar Adak and Shri Sanjoy Sekhar Ghosal</b>
05 /09/2023	Editing a Newspaper <b>Ms. Ishani Dutta Roy</b> , Editor, Ananabazar Patrika And Generation, Uses and Conservation of Electricity <b>Shri Debabrata Dey</b> , Former Executive Director WBPDC and Chief Advisor NWEPI
06 /09/2023	Holiday (Janmastami)
07/09/2023	Water Crisis, Rainwater Harvesting and Water Conservation <b>Dr. Tapan Saha</b> , Treasurer, Bangiya Bijnan Parishad, Kolkata
08/09/2023	Production and Applications of Vaccines

	<b>Professor Kaustubh Panda</b> , Department of Biotechnology and Dr. B.C. Guha Centre for Genetic Engineering & Biotechnology, University of Calcutta
09/09/2023	Workshop on Developing a Tabloid Based on Science News and Features at Vijoygarh Jotish Ray College

#### 14<sup>th</sup> Week

11/09/2023	Power Point Presentation 2 Judges: <b>Shri Krishnendu Rath, Shri Abhishek Chakraborty and Shri Sandipan Chatterjee</b>
12 /09/2023	Health Reporting <b>Dr. Sujata Mukherjee</b> , <i>Ei Samay</i> Online and Health Writer
13 /09/2023	Visit to Zoo
14/09/2023	The Asiatic Society
15/09/2023	Workshop on Digital Tools, Fact-checking & Source Verification <b>Shri Joydeep Dasgupta</b> , Trainer - AAJA and GNI, Editor, News Sense
16/09/2023	Workshop on Developing a Tabloid Based on Science News and Features at Vijoygarh Jotish Ray College

#### 15<sup>th</sup> Week

18/09/2023	Holiday
19 /09/2023	Winding up on Science Communication <b>Dr. Resmi Naskar</b> , HoD and Assistant Professor, Department of Mass Communication, St. Xavier's University, Kolkata =====
	Birds of Kolkata <b>Professor (Dr.) Mrityunjoy Chatterjee</b> , Eminent Journalist, Writer and Corporate Trainer
20 /09/2023	Science Communication through Photography <b>Shri Kallol Basak</b> , Assistant Central Intelligence Officer, Central Forensic Science Laboratory
21/09/2023	Production and Applications of Vaccines <b>Professor Kaustubh Panda</b> , Department of Biotechnology and Dr. B.C. Guha Centre for Genetic Engineering & Biotechnology, University of Calcutta
22/09/2023	<b>Professor Uday Maitra</b> , Honorary Professor, Department of Organic Chemistry Indian Institute of Science, Bangalore <i>will deliver the NINTH PROFESSOR ASIMA CHATTERJEE FOUNDATION ORATION on 22<sup>nd</sup> September, 2023, Friday, 2 p.m. in Meghnad Saha Auditorium, University of Calcutta, 92, A.P.C. Road, Kolkata – 700 009</i> PARTICIPANTS ARE REQUESTED TO REACH MEGHNAD SAHA

AUDITORIUM, UNIVERSITY OF CALCUTTA, 92, A.P.C. ROAD, KOLKATA – 700 009 ON 22<sup>ND</sup> SEPTEMBER, 2023 at 01.45 p.m.

**16<sup>th</sup> Week**

24/09/2023	Workshop on Developing a Tabloid Based on Science News and Features at Vijoygarh Jotish Ray College
25/09/2023	Examination

**List of Final Participants of XXXVI Training Programme on Science Communication and Media Practice 2023-2024**

1.	<b>Shri Koushik Saha</b> , Kathgola Para, Post Katwa, Dist Purba Bardhanaman, Pin 713130 (W.B.), M: 7509182195, e-mail: <a href="mailto:koukri@gmail.com">koukri@gmail.com</a>
2.	<b>Mrs. Malabika Sengupta</b> , A 5/5 Karunamoyee Housing Estate, Sector-2, Salt Lake, Kolkata -700091, M: 8240904083 / 9833450701, e-mail: <a href="mailto:mlbk.sngpta@gmail.com">mlbk.sngpta@gmail.com</a>
3.	<b>Shri Abhishek Datta</b> , B-12/212, Kalyani, Nadia, West Bengal, Pin-741235, M: 8697461350, e-mail: <a href="mailto:abhishekdatta1892@gmail.com">abhishekdatta1892@gmail.com</a>
4.	<b>Ms. Bratati Barik</b> , Basudevpur, Arambag, Hooghly (WB), Pin-712601, M: 8240504880 / 9434973214, e-mail: <a href="mailto:bratati.barik072@gmail.com">bratati.barik072@gmail.com</a>
5.	<b>Shri Arnab Kanti Dhara</b> , Vill + P.O. Madhabpur, P.S. Bhupatinagar, Dist East Midnapore, Pin-721626, M: 9330511277 / 9775047774, e-mail: <a href="mailto:arnabkanti508@gmail.com">arnabkanti508@gmail.com</a>
6.	<b>Ms. Urbi Roy</b> , 42, Banerjee Lane, Ranaghat, Nadia, Pin-741201, M: 8371039678, e-mail: <a href="mailto:urbiroy397@gmail.com">urbiroy397@gmail.com</a>
7.	<b>Shri Shubhankar Kundu</b> , 418/1, Sthirpara, Mathpara, P.O- Mondalpara, P.S. Bhatpara, Dist-North 24 Parganas, West Bengal, Pin-743127, M: 7980159894, e-mail: <a href="mailto:shubhankar1996kunddu@gmail.com">shubhankar1996kunddu@gmail.com</a>
8.	<b>Ms. Sanchalita Bhattacharyya</b> , 21/1 Bazarlane, Rahapara, P.O. Bhatpara, North 24Pgs, Pin-743121, WB, India, M: 8335850784, e-mail: <a href="mailto:sanchalitabhattacharyya@gmail.com">sanchalitabhattacharyya@gmail.com</a>
9.	<b>Ms. Tritisha Das</b> , A-12/2/3, Balika Abason, Newtown, Kolkata – 700007, M: 8016192293, e-mail: <a href="mailto:tritishamampu@gmail.com">tritishamampu@gmail.com</a>

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**Sh. Jinnat AH**, Science Communicator



# XXXVI TRAINING PROGRAMME ON SCIENCE COMMUNICATION AND MEDIA PRACTICE 2023-2024

## Information Brochure

Organised by  
**INDIAN SCIENCE NEWS ASSOCIATION, KOLKATA**  
and  
**VIGYAN PRASAR**

DEPARTMENT OF SCIENCE & TECHNOLOGY  
GOVT. OF INDIA, NEW DELHI

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with active support from  
University of Calcutta

Sister Nivedita University, Kolkata  
Vijaygarh Jyotish Ray College, Kolkata

## INDIAN SCIENCE NEWS ASSOCIATION

The Indian Science News Association (ISNA) was founded by eminent scientists like **Acharya Profulla Chandra Ray**, **Professor Meghnad Saha**, **Professor B. B. Ray**, **Professor D. S. Kothari** and other stalwarts. The purpose was to promote diffusion of knowledge laying special stress on the progress of scientific studies in India and abroad and advocating methodical application of science to problems of national regeneration. With this objective in view, the ISNA has been publishing a journal **SCIENCE AND CULTURE** for nearly last nine decades.

ISNA also organises seminars, symposia and training programmes on **Science Communication and Media Practice** to disseminate scientific knowledge and create awareness for the public.

## VIGYAN PRASAR

Vigyan Prasar is an autonomous institution under Department of Science and Technology, Government of India. Vigyan Prasar's objective is to "promote scientific and rational outlook" amongst stakeholders in all sectors and especially relevant for growth and sustainable development of India.

## GROOMING SCIENCE COMMUNICATORS

Present day India is a culmination of historical processes that date back to the Indus civilization and probably beyond. Scientific research has led to our progress and continues to ensure India's prominent position in the world of nations. However, it remains a great disadvantage for all of us that science, even today in this country, remains largely confined to laboratories and universities. The dissemination of scientific knowledge among the masses is an urgent necessity. The Indian Science News Association (ISNA) took on its shoulders the responsibility of grooming those who would take science to the masses. Since 1963 the organization has remained focused on conducting a certificate course on Science Communication and Media Practice. Except for a few unavoidable breaks in between, ISNA's dedication has remained unflinching. ISNA has not only trained students but also produced books, videos, CDs, etc. that continue to serve as effective study material for the trainees. The course includes lectures, workshops, field visits, hands-on experience and orients the students in such a fashion that the learner gets a good exposure to the unfolding secrets of science and technology as well as gains the ability to communicate the same to the masses through print and audio-visual media. Participation of Vigyan Prasar as co-organiser has made this course more effective and inspiring.

## OUTLINE OF COURSE CONTENTS

1. Communication and journalism
2. Media study
3. The art of writing and editing
4. Science communication through audio-visual media
5. The art of conducting interview
6. Science and society and ethical issues
7. Science Communication through Social Media, YouTube, Facebook, Twitter, Instagram
8. Lectures on Eminent Indian Scientists and contemporary topics of science
9. Classroom presentations, debate, slogan writing and workshops
10. Audio-visual documentary and Science News letter production
11. Interactive sessions, Projects, Visits and Feedbacks

## ELIGIBILITY

Applicants should be either graduates in any stream or final year examinees. Those having interest in science writing / reporting in newspaper / periodicals / electronic media / social media will be preferred. Applicants will be selected after a written examination and counseling. The decision of the Organizing Committee will be final regarding selection.

## CERTIFICATE

Certificates will be issued at the end of the course to those who will qualify in the final examination, after attending at least 80% classes and completion of class room presentation, the project assigned and evaluated by the committee.

## ADMISSION PROCEDURE

The application form Price Rs. 50 for the course may be obtained from the office of the **Indian Science News Association**, 92, Acharya Profulla Chandra Road, Kolkata - 700 009 downloaded from ISNA website (Notice Board). The application form, duly filled in, should reach by **April 24, 2023**. Last academic Certificate / Marksheet must be enclosed.

## COURSE FEE

Names of the candidates selected for the course will be put up on the Notice Board of the ISNA on **May 22, 2023** (afternoon) and they will be admitted on payment of the following course fees:

Individual	Rs. 2500.00
Sponsored candidate	Rs. 4000.00

## DURATION OF THE COURSE

The duration of the course is about four months, June-September 2023, classes being held five days a week, including some Saturdays for workshops and visits. Visits may also be held on any weekday in the day time. The classes will be held between 6.00 p.m. and 8.00 p.m. in the Rajabazar Science College Campus of the University of Calcutta at 92, Acharya Profulla Chandra Road, Kolkata - 700 009.

Course will commence from the second week of June, 2023

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## Hand In Hand

When Mike Gold, a former NASA official, said, "Chandrayaan III's success is a victory of Indian innovation, human capital and the capabilities that will take India further," it was no exaggeration. Believe it or not, India's two successive astral missions, a lunar and a solar within a short span of time, have made it clear that the giant spacecraft have behind their back a combined toil of at least five hundred scientists at the ISRO and thousands of their counterparts in what is known as startups.

It was not a single stroke of serendipity. Google has released an astounding figure of 55,000 aerospace companies in the MSME sector that had spent sleepless nights for the success of the moon mission. Besides, the NASA and the European Space Agency (ESA) extended their helping hands. This is a unique camaraderie that goes well with India's slogan for the international summit that India had hosted recently.

In fact, this bonhomie should be there if India is to excel in space industry. Scientists claim that only two per cent of the space economy has been fruitfully utilized so far. A country of 140 million cannot afford luxury in its space experiments. The lunar mission's ₹ 615 crore budget when compared with NASA's or with the just failed moon mission of the Russian space agency seems to be a penury and behoove of that.

The Indian march of science exemplified by the two quick missions is not the story of a single day. Chandrayaan I was mooted at least twenty years efore though it came into fruition after eight years. However, it could not do much except for collecting observatory data. The second Chandrayaan mission, of course, had met with some success. There would have been much more had not there have been a crash-landing on the lunar surface.

The story would have been complete if there had been no pin pricking by certain quarters that this is a victory of science with technology playing a meagre roll. This is something ludicrous as all technologies have a strong back-up of

science. Science and technology are complementary to each other. Every nut and bolt fitted into the satellite launch vehicle is the product of a joint exercise. One is meaningless without the other.

Now that the initial euphoria has settled down to some extent with a hope of Pragnan's resurrection after a fortnight ISRO scientists are recounting their rough and tumble after the tragic failure of the Chandrayaan II mission. It was a sort of Phoenician venture and they had to learn from their failures after several trials and tribulations, sampling and simulations. There had been errors and deviations from the path followed but that could not deter their determination. The goal is loftier which will mean more of piercing into the sky with limited capabilities and no ostentations because India is not competing with others.

Preliminary results have indicated that the lunar surface may contain water as well as huge mineral reserves. The race for the space is somewhat indicative of the fact that even private space explorers are also interested in laying their hands on these untapped resources like Hydrogen from water in abundance that could meet the needs for alternative energy since non-fossil fuels will face exhaustion in the not-too-distant future. Will Indian policy makers be irresponsible to that because space missions require appropriate funding? The question is being raised because apprehension is lurking in the minds of scientists that several institutions are being wound up presently.

On the lighter side, another race is seen in India simultaneously with the speed of the spacecraft. The Mumbai film industry, one of the largest in the world, is now approaching producers with hot cake scripts of making films with the Chandrayaan mission as the theme. Already fifteen scripts are under consideration and the number is said to be swelling. Hindustan ki Shaan Chandrayaan is one such title, reveals a popular daily's supplement. Any question?

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## The Saha Saga

### Meghnad Saha, A Multi-faceted Life Devaprasanna Sinha

One may start with another write-up on Meghnad Saha (MNS) with the facts available on him, his family, his varied interests, his commitments, his being a great scientist and also a nationalist, his linkages with associations, his publications etc.

A plethora of literature in the form of books and articles exist in various media on each of the aspects with greater information posted and updated from time to time. While we understand a lot of information have been uploaded, much remains to be reiterated to remember him, particularly on his 130th birthday (born on 6 October 1893) this year, this brief note, deliberately reduced, is to present a glimpse of some of the facts that we should know about him, besides, to remember a few, Saha Institute of Nuclear Physics, Indian

Science News Association. We have hitherto started talking about MNS in many fora, particularly, about his initial career, with the names of several classmates like Satyendra Nath Bose, Nikhil Ranjan Sen, Jnan Chandra Ghosh, Jnanendra Nath Mukherjee and others, who happened to be great scientists in different disciplines. We should not forget his strong bondage and high respect for two great teachers Acharya Jagadish Chandra Bose and Acharya Prafulla Chandra Ray. We have read the writings of several scientists and other historians all over the world who collaborated with MNS in many scientific and other developmental projects, both at the research level and national development. MNS stood second at the undergraduate examination in 1913 with Mathematics

## The Saha Saga The Scientist Who Stood For Science Communication Sabyasachi Chatterjee

Right from the beginning, science movements were implemented through the efforts of some notable individuals. Renowned practising scientists were also attached to this movement. Among them Meghnad Saha (1893-1956) deserves special mention. Apart from his scientific papers, Meghnad Saha wrote some excellent popular scientific write-ups, both in English and in the vernacular. His articles, other than scientific papers were of varied subjects like astronomy and astrophysics, spectroscopy, nuclear physics (including cosmic rays and nuclear energy). These articles were mainly published in the Science and Culture. He himself was its editor. One article was published in the Statesman. His Bangla articles were published in the contemporary popular

Meghnad Saha had a scientific mind. He firmly believed that 'man can mould his own destiny'. He was of the opinion that science and technology were the tools by which man can and has achieved so much. Saha had a definite opinion regarding the relationship between modern science and Hindu religion. A debate took place on this subject between Meghnad Saha and Anilbaran Roy. Saha started this debate when he delivered a lecture entitled a new philosophy of life at Shantiniketan on 13 November 1938. The original lecture was in Bangla. An English version was published in the Viswa Bharati News.

In that debate, Saha mainly concentrated on intolerance in religion and the lower status of the working class (i.e.,

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### A pre-Independence issue of Science and Culture during the tenure of Dr. Meghnad Saha when he was the Editor of the prestigious journal

vernacular periodicals like Prabasi, Bharatbarsa, Masik Basumati, Nabya Bharat, Anandabazar Patrika (puja number), and Yugabani etc. The subjects of those articles were also varied, starting from the biography of the scientists (i.e.-Albert Einstein, Niels Bohr, Aston, Volta, Satyandra Nath Bose) to astronomy (i.e. Total Solar Eclipse of Norway), application of science (i.e. physics in medicine) etc.

He showed his concern for the children by writing articles for them. His articles were written mainly on the request of Jogendranath Gupta for his edited children magazine, the Shishu Bharati. At that time, Saha resided in Allahabad from where this Shishu Bharati was published. These articles were written between 1930 and 1940. Saha wrote on the subjects like astronomy, mechanics, geographical discoveries, new inventions in science and technology.

craftsman, artists, builders etc.) in the traditional social hierarchy. He correctly pointed out that there has been no connection between the hands and the brain of Hindu society. That was the reason behind the lack of innovativeness in the techniques of production for thousands of years. Saha pointed out that the caste system was the basis of India's downfall because it separated the hand from the brain by idealizing speculative thinking at the cost of physical labour. The infallibility of the Vedas was another myth he was out to destroy. Saha rightly said that 'our adherence to superstitions about the sneeze or the clacking of the lizard and faith in the Panjika signify the debility of the national character. He successfully differentiated astrology from astronomy. So, this debate revealed the scientific mind of Saha.

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(1916). From left to right: back row - M. N. Saha and J. C. Ghosh. Centre row - R. K. Das, Acharya Prafulla Chandra Ray and D. N. Sen. Front row - H. Sarkar and P. Sarkar (This photograph is provided by Saha Institute of Nuclear Physics, Calcutta, India) (Pramod V. Naik, Meghnad Saha, His Life in Science and Politics, Springer, 2017)



## খন্য রাজনীতি

প্রতিজ্ঞা করেছিলাম আমাদের এই প্রিয় পত্রিকায় রাজনীতির আঙিনায় নিজেরা পা রাখব না। দেব না কারও লেখায় রাজনীতি ছুঁতে। আমাদের বিজ্ঞান কহনের মূল লক্ষ্যই থাকবে বিজ্ঞানের সম্প্রচার ও জনপ্রিয়করণ। কিন্তু আজ পরিস্থিতির চাপে আমরা নিজেদের কথা নিজেরাই বোধহয় গিলে ফেলতে বাধ্য হচ্ছি। কারণ, রাজনীতিই আমাদের গিলে ফেলছে। আজ জীবনের প্রতি পদে পদে রাজনীতির অনুপ্রবেশ। রাজনীতিই আমাদের পরিচালন করে, রাজনীতিই আমাদের নিয়ন্ত্রণ করে। রাজনীতিই আমাদের পাল তুলে দেয়, আবার মাঝ গঙ্গায় ডুবিয়েও দেয় রাজনীতি। রাজনীতিতেই শুরু, রাজনীতিতেই শেষ।

বহুকাল আগে বিখ্যাত অর্থনীতিবিদ এবং বিশ্বভারতী বিশ্ববিদ্যালয়ের প্রাক্তন উপাচার্য অস্ট্রান দত্ত একটি বিখ্যাত পাক্ষিক পত্রিকায় আমাদের “অস্তিত্বের সংকট”-এর কথা স্মরণ করিয়ে দিয়েছিলেন। আজ অতি দুঃখের সঙ্গে আমাদের এই ভয়াবহ বার্তা আবার মনে করতে হচ্ছে। না হলে আজ শতাব্দী প্রাচীন জাতীয় বিজ্ঞান কংগ্রেস বন্ধ হয়ে যায়, বিজ্ঞান প্রসারের নাভিশ্বাস ওঠে?

অনেক কিছুই হয়তো মানা যায় না তবু মেনে নিতে হয়। কিন্তু ১০০ বছরের দোরগোড়ায় দাঁড়িয়ে বিজ্ঞান কংগ্রেসের স্থগিত হয়ে যাওয়া মেনে নেওয়া দুষ্কর। কিছু কিছু পণ্ডিত প্রবর হয়তো বিজ্ঞান কংগ্রেসের সমালোচনা করেছেন, একে বাৎসরিক “কার্নিভ্যাল” বা “জাম্বোরি” আখ্যায় সম্বোধিত করেছেন। কিন্তু বিজ্ঞান কংগ্রেসের ইতিহাস বা ঐতিহ্য পর্যালোচনা করলে এ ধরনের সমালোচনা নেহাত বালখিল্যেরই মস্তব্য মনে হয়। কত না মনিষী বিজ্ঞানী এই বার্ষিক অধিবেশনে সভাপতির পদ অলংকৃত করেছেন তার ইয়ত্তা মেলা ভার। কত না তরুন বিজ্ঞানীরা বিভিন্ন অধিবেশনে এই জ্ঞানী জন মানসের সামনে নিজেদের ভবিষ্যতের সম্ভাবনা মেলে ধরার সুযোগ পেয়েছেন তাও গোপা মুষ্কিল।

স্বভাবতই সকলেই এবার হতাশ হয়েছেন। বিজ্ঞান কংগ্রেস আবার কোনদিনও অনুষ্ঠিত হবে কি না তাই নিয়ে একটি বিরাট সংশয়ের অবকাশ রয়েছে। অথচ বিজ্ঞান কংগ্রেসের পরিধি হয়তো একমাত্র আমেরিকান ফর অ্যাডভান্সমেন্ট অফ সায়েন্সের সঙ্গেই তুলনীয়।

তেনমই তোলা যেতে পারে বিজ্ঞান প্রসারের কথা। নামেই পরিষ্কার এই কেন্দ্রীয় প্রতিষ্ঠানের মূল লক্ষ্য বা উদ্দেশ্য কি? সারা বছর ধরে, সারা দেশ জুড়ে এই সংস্থাটি

নানা কর্মকাণ্ডে নিজেকে জড়িয়ে রাখত। বিভিন্ন ভাষায় জনপ্রিয় বিজ্ঞান পত্রিকা প্রকাশ করা ছাড়াও বিজ্ঞান ও বিজ্ঞানীদের বিভিন্ন প্রতিষ্ঠানকে আর্থিক অনুদান প্রদান করত যাতে বিজ্ঞানকে সাধারণ মানুষের বোধগম্য করা যায়। এই কর্মকাণ্ড সচল রাখতে প্রতিষ্ঠানের নিজস্ব বিজ্ঞানীরা বিভিন্ন জায়গায় ছুটে যেতেন, কর্মকর্তাদের সঙ্গে নিরলস আলোচনা করতেন যাতে বিজ্ঞান সচেতনতার টেউ সারা দেশে আছড়ে পড়ে।

অথচ আজ এই সমস্ত কর্মকাণ্ড বন্ধ হয়েছে কারণ বিজ্ঞান প্রসারের দরজায়ও তালা ঝুলেছে। সংস্থার কর্তব্যজ্ঞিরাও কিংকর্তব্যবিমূঢ়। যে সমস্ত প্রতিষ্ঠানগুলি বিজ্ঞান প্রসারের অনুদানের উপর ভরসা করে নিজেদের কার্যধারা বজায় রাখতেন আজ তাদের অস্তিত্ব সম্পর্কে সন্দেহান হতে হচ্ছে। তাদের সামনের পথ অন্ধকারাচ্ছন্ন, কর্মমাজ।

অভিজ্ঞতায় দেখা গিয়েছে যে বিজ্ঞান সাধারণ মানুষের কাছে কখনই জনপ্রিয় নয়, সহজবোধ্যতো নয়ই। আর সেখানেই বিজ্ঞান প্রসারের প্রাসঙ্গিকতা এবং তার সূত্রে অন্য প্রতিষ্ঠানগুলির কার্যকারিতা। আনুষঙ্গিক অন্যান্য কিছু কথ্য না ধরলেও এই কর্মকাণ্ড চালু রাখতে অর্থের প্রয়োজন সর্বাগ্রে। সমুদ্রের জলই যদি শুকিয়ে যায় নদী নালা খালবিল বাঁচে কি করে?

কাজেই কালবিলম্ব না করে সামগ্রিক অবস্থার আশু পর্যালোচনা প্রয়োজন। প্রয়োজন স্থিতাবস্থা ফিরিয়ে আনা যাতে সব কিছু স্বাভাবিক হয় এবং পূর্বাভাস ফিরে আসতে পারে। বিজ্ঞান সত্য গতিশীল। এক জায়গায় কখনও থেমে থাকে না। অন্য দেশে যখন বিভিন্ন কার্যসূত্রে বিজ্ঞান জনপ্রিয় হয়ে উঠছে আমরা কি তখন পুরাকালে ফিরে যাব? ভারত আবার জগত সভায় শ্রেষ্ঠ আসন লবে পংক্তিটি আবার কি নতুন করে লিখতে হবে?

বিজ্ঞানীরা সত্যেন্দ্রনাথ বসু একবার বলেছিলেন, আমাদের দেশের বিজ্ঞান লেখকদের শুধু বিজ্ঞান জানলেই হবে না। তাদের চেষ্টা চাই যারা বিজ্ঞান বোঝেনা তাদেরও বিজ্ঞান বুঝিয়ে দেওয়ার এবং সেইমতো একটা ভাষার সৃষ্টি করা তাদের দায়িত্ব। আজ বিজ্ঞানীরা বেঁচে থাকলে আমরা তাঁকে হয়তো জিজ্ঞাসা করতাম যে কলমের কালিই যদি শুকিয়ে যায় ভাষা সৃষ্টি হয় কি কি ভাবে?

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## জাতীয় বিজ্ঞান দিবসে বিজ্ঞান সংগঠকের ভবনা অর্নব বন্দ্যোপাধ্যায়



বয়স ৭৫ পেরিয়ে গেছে। উৎসাহে এক ফোটা ভাঁটা পড়েনি। যুবক বয়স থেকে যে স্বপ্ন দেখতেন আজও তা বিদ্যমান। মানুষের মধ্যে বিজ্ঞান প্রচারের কাজ যারা করেন তাদেরকে খুঁজে বার করা এই মানুষটির লক্ষ্য। নিজেও বিজ্ঞান প্রচারের কাজ করেন। একজন বিজ্ঞান সংগঠক কিভাবে হতে হয় তা তিনি দৃষ্টান্ত স্থাপন করেছেন।

প্রতিবছর উনি জাতীয় বিজ্ঞান দিবসে বিজ্ঞান প্রচারকদের পুরস্কার দিয়ে থাকেন তাঁর সংগঠনের মাধ্যমে। এই পুরস্কারের তালিকায় রয়েছে পশ্চিমবঙ্গ তথা ভারতবর্ষের বিজ্ঞানী, বিজ্ঞান লেখক, বিজ্ঞান গবেষক, বিজ্ঞান সম্প্রচারক, বিজ্ঞান প্রচারক-এরকম নানা ক্ষেত্রের মানুষজন। জ্ঞানচন্দ্র ঘোষ স্মৃতি পুরস্কার, গোপাল চন্দ্র ভট্টাচার্য স্মৃতি পুরস্কার, আচার্য জগদীশচন্দ্র বসু স্মৃতি পুরস্কার, আচার্য প্রফুল্ল চন্দ্র রায় স্মৃতি পুরস্কার, বিজ্ঞানী মেঘনাদ সাহা স্মৃতি পুরস্কার, বিজ্ঞানী প্রশান্তচন্দ্র মহলানবীশ স্মৃতি পুরস্কার, ডাঃ নীলরতন সরকার স্মৃতি পুরস্কার, ডাঃ বিধান চন্দ্র রায় স্মৃতি পুরস্কার প্রভৃতি পুরস্কারের মাধ্যমে উদ্বুদ্ধ করেন বহু সায়েন্স কমিউনিকটরকে। বিজ্ঞান সংগঠনদেরও পুরস্কার দেন। ভারতের প্রথম বিজ্ঞানে নোবেল জয়ী বিজ্ঞানী ড. সিভি রমণ নামাঙ্কিত স্মৃতি পুরস্কার দেওয়া হয় বিজ্ঞান সংগঠনকে।

এতক্ষণে মনে হয় অনেক পাঠকই বুঝতে পেরে গেছেন এই কলম লেখক কার কথা বলছেন। হ্যাঁ, ড. শুভব্রত রায় চৌধুরীর কথা; প্রাক্তন উপাচার্য এবং দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গলের সম্পাদক।

দীর্ঘদিন ধরে তাঁকে আমি চিনি, ছোট থেকেই দেখছি, একজন বিজ্ঞান সংগঠক কিভাবে নিঃশব্দে কাজ করেন। কয়েকদিন আগে যখন তাঁর সঙ্গে কথা হচ্ছিল আমি প্রশ্নটি ছুঁড়েই দিলাম তাঁকে। এই বয়সে এসেও এত উৎসাহ পান কি করে? এক গাল হেসে বললেন, আমার চিন্তনে ও মননে বিজ্ঞান প্রচার একান্ত হয়ে গেছে। প্রায় ৪০ বছর আগে যখন দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল তৈরি হয়, তখন তার মূল লক্ষ্যই ছিল মানুষের মধ্যে খুব সহজভাবে বিজ্ঞানকে পৌঁছে দেওয়া। শুধু শহরের মানুষের মধ্যে নয় প্রত্যন্ত গ্রামাঞ্চলেও বিজ্ঞানকে সঙ্গী করে দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল বহু কাজ করেছে; এখনও করছে। আর তার মূল কাভারী ড. শুভব্রত রায় চৌধুরী।

কথায় কথায় তিনি বললেন সেন্ট জেভিয়ার্স কলেজে পড়ার সময় ফাদারের সঙ্গে কাজ করার

অভিজ্ঞতা আজীবন তাঁকে সাধারণ মানুষের মধ্যে কাজ করার ক্ষমতা যোগায়। একসময় সারা বাংলা জুড়ে এমনকি বাংলার বাইরে দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গলের কাজ হতো। পাহাড় থেকে সাগর, সুন্দরবন থেকে জঙ্গলমহলে বহু প্রকল্প চলতো দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গলের উদ্যোগে। ভারত সরকারের বিজ্ঞান ও প্রযুক্তি দপ্তরের সহযোগিতায় বিজ্ঞান ও প্রযুক্তির বহু সুফল, প্রকল্পের মাধ্যমে মানুষের কাছে পৌঁছে দিয়েছে দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল - এই কথাই বলছিলেন সম্পাদক ড. রায় চৌধুরী।

একই সঙ্গে বিজ্ঞান প্রচারক তৈরি করার জন্য বিজ্ঞান সাংবাদিকতার একটি কোর্স নিয়মিতভাবে আয়োজন করতো দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল। সংস্থার মুখপত্র হিসেবে কাজ করেছে বিজ্ঞান মেলা নামে বিজ্ঞান পত্রিকাটি। আজও এই পত্রিকা প্রকাশিত হয়। বিজ্ঞান প্রচারে উৎসাহ দেওয়ার জন্য (দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল এর মাধ্যমে) যখন শুভব্রত বাবু বিজ্ঞানী গোপাল চন্দ্র ভট্টাচার্যের স্মৃতি পুরস্কার দেওয়ার পরিকল্পনা করেন তখন বাংলা তথা সারা ভারতবর্ষে এই ভাবনা সে ভাবে কেউ ভাবেননি। পরবর্তী ক্ষেত্রে ভারতবর্ষের বিভিন্ন রাজ্যে বিজ্ঞান প্রচারকদের পুরস্কার দেওয়া শুরু হয়। কেন্দ্রীয় সরকারের বিজ্ঞান ও প্রযুক্তি মন্ত্রক বেশ কয়েক বছর হলো বিজ্ঞান প্রচারকদের পুরস্কার দিচ্ছেন। ড. শুভব্রত রায়চৌধুরীর এই উদ্যোগের অনেক বছর পরে পশ্চিমবঙ্গ সরকার ড. গোপালচন্দ্র ভট্টাচার্য স্মৃতি পুরস্কার চালু করে। কথায় কথায় তিনি বলছিলেন, “পুরস্কারের জন্য সবাইকে বিভিন্ন সংস্থায় আবেদন করতে হয়। কিন্তু দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল-এর পুরস্কার যারা পান তাঁরা কেউ আবেদন করে পুরস্কার পান না। সমাজ থেকে এই গুণী মানুষদের খুঁজে নেওয়ার দায়িত্ব আমাদের”।

৭০-৮০ র দশকে সারা ভারত জুড়ে বিজ্ঞান ক্লাব তৈরি হয়েছিল। ৮০ র দশকে ন্যাশনাল কাউন্সিল ফর সায়েন্স এন্ড টেকনোলজি কমিউনিকেশন (এন সি এস টি সি) যখন ভারত সরকারের উদ্যোগে তৈরি হয় তখন বিজ্ঞান ক্লাবগুলো আরও সম্ভব হয়। পূর্ব ভারত বিজ্ঞান ক্লাব গড়ে ওঠে এই সময়। দ্যা সায়েন্স অ্যাসোসিয়েশন অফ বেঙ্গল এই পূর্ব ভারত বিজ্ঞান ক্লাবের নানা উদ্যোগের সঙ্গী হয়েছিল।

দুঃখ করে বলছিলেন এখন আর বিজ্ঞান ক্লাব গুলো সেভাবে কাজ করতে পারছে না। নতুন প্রজন্মের ছেলেমেয়েরা বিজ্ঞান ক্লাবের দিকে আগ্রহী হচ্ছে না, ফলে বিজ্ঞান প্রচারের কাজটা বিঘ্নিত হচ্ছে।

আমি জিজ্ঞেস করলাম নতুন ছেলে মেয়েরা যদি এই কাজে না আসে তবে বিজ্ঞান প্রচার কি বন্ধ হয়ে যাবে? উনি বললেন না, তা কেন হবে? বিজ্ঞান প্রচারের পদ্ধতিটা আমাদের পাল্টাতে হবে। এখন ডিজিটাল প্রযুক্তির যুগ। নতুন প্রজন্মের ছেলেমেয়েরা ডিজিটাল প্রযুক্তিতে খুবই সচ্ছন্দ। সুতরাং তাদেরকে এই প্রযুক্তির মাধ্যমে বিজ্ঞান প্রচারের কাজ চালিয়ে নিয়ে যেতে হবে। আসলে ভাবনাটাই হল কনটেন্ট; পুরনো দিনের বিজ্ঞান প্রচারক যারা আছেন, তাঁদের কাজ হবে এই নতুন প্রজন্মকে বিজ্ঞান ভাবনায় উদ্দীপিত করে ডিজিটাল প্রযুক্তির মাধ্যমে সায়েন্স কমিউনিকেশন কে এগিয়ে নিয়ে যাওয়া।

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## চুরাশির চল্লিশ বছর সব্যসাচী চট্টোপাধ্যায়

পরিবেশগত দুর্ঘটনার কথা বললেই আমাদের মনে পড়ে ১৯৮৪-এর ভোপাল গ্যাস বিপর্যয়ের কথা। সে-বছর ডিসেম্বরের ২ তারিখ মাঝরাতে ইউনিয়ন কারবাইড-এর কারখানা থেকে বের হয়েছিল অত্যন্ত বিষাক্ত মিথাইল আইসোসায়ানেট বা মিক গ্যাস। তার ফলে অন্তত তিন হাজার মানুষ মারা গিয়েছিলেন। রাসায়নিক দূষণের শিকার হয়ে অসুস্থ হয়ে পড়েছিলেন দুলাক্ষের ওপর মানুষ। পৃথিবীর মানুষের তৈরি করা পরিবেশ বিপর্যয়ের মধ্যে শীর্ষস্থানীয় ভোপাল।

তবে আশ্চর্যের ব্যাপার ১৯৮৪-তে শুধু ভারতের ভোপালে নয়, অন্তত আরও দুটো খুব বড়ো পরিবেশ বিপর্যয়ের ঘটনা ঘটেছিল পৃথিবীর অন্য দুই প্রান্তে।

১৯৮৪-এর ২৫ ফেব্রুয়ারিতে ব্রাজিলের কুবাটাও শহরে পেট্রোল পাইপের ফুটো দিয়ে পেট্রোল বের হতে থাকে। তেলে আগুন এসে পড়ে। তা থেকে আগুন লেগে যায় পাইপে। শহরে আগুন ছড়িয়ে

দাহ্য পদার্থ। ব্রাজিলের ক্ষেত্রে আগুনের উৎস ছিল পেট্রোল আর মেক্সিকোয় আগুন লাগাল রান্নার গ্যাস, অর্থাৎ লিকুইড পেট্রোলিয়াম গ্যাস বা এল পি জি।

দুর্ঘটনাটি ঘটে চুরাশির ১৯ নভেম্বর। মেক্সিকোর শহরতলি অঞ্চল ইকোটেপেকে ঘটেছিল এই মারক ঘটনা। সেখানে একের পর এক গ্যাস সিলিন্ডার ফাটতে শুরু করে। এই ভয়াবহ বিস্ফোরণ চলতে থাকে এক ঘণ্টা ধরে। গ্যাস সিলিন্ডারের গুদামে আগুন লাগায় মারা যান প্রায় পনেরো হাজার মানুষ, আহত হন আরও সাত হাজার।

ব্রাজিল, মেক্সিকো, ভারত, পৃথিবীর তিন প্রান্তে চল্লিশ বছর আগে ঘটা তিন পরিবেশ বিপর্যয়ের ফলে ক্ষতি হয়েছিল মানুষের, ক্ষতিগ্রস্ত হয়েছিল প্রকৃতি। আর এই বিপর্যয়ের জন্য দায়ী ছিল মানুষ। দায়ী তাদের অসতর্কতা, অবিবেচনা। হাজার হাজার মানুষের মৃত্যুর বিনিময়ে আমরা শিক্ষা পেয়েছিলাম

পড়ে। জীবন্ত অগ্নিদগ্ধ হয়ে মারা যান ছশোর ওপর মানুষ। আহত হন প্রায় তিন হাজার মানুষ।

এর নামাস পরে মানুষের তৈরি আর এক পরিবেশগত দুর্ঘটনার সাক্ষী হয় এই পৃথিবী। সেই ঘটনা ঘটেছিল পৃথিবীর আর এক প্রান্তে, মেক্সিকোতে। সেখানেও ঘটে এক ভয়াবহ অগ্নিকাণ্ড। তবে আগুনে ইন্ধন যোগায় অন্য

পরিবেশগত দুর্ঘটনা কী ভয়াবহ আর মারক হতে পারে।

কিন্তু সেই শিক্ষা কি আমরা নিতে পেরেছি?

সহযোগী অধ্যাপক  
ইতিহাস বিভাগ,  
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Indian Science News Association (ISNA), Kolkata

cordially invite you to the

Celebration of National Science Day 2024  
on Thursday, 29<sup>th</sup> February, 2024 at 4.30 p.m.

Theme: Indigenous Technologies for Viksit Bharat

Venue:  
N.R. Sen Auditorium, University of Calcutta, Rashbehari Siksha Prangan,  
Rajabazar Campus, 92, Acharya Prafulla Chandra Road, Kolkata - 700 009

Speaker:  
Dr. Rupali Gangopadhyay, Associate Professor, Department of Chemistry,  
Sister Nivedita University

Guest of Honour:  
Dr. Indranil Sanyal, Former Director (Headquarters),  
National Council of Science Museums

Chief Guest:  
Professor Santa Dutta (De), Vice-Chancellor, University of Calcutta

to be presided over by:  
Professor (Mrs.) Julie Banerji  
Vice-President, ISNA and former Khaira Professor and Head of the Department of Chemistry,  
University of Calcutta

Professor Manas Chakrabarty  
Honorary Secretary, ISNA

Dr. Amit Krishna De  
Honorary Secretary, ISNA

INDIAN SCIENCE NEWS ASSOCIATION  
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Dignitaries on the dais in the inauguration of XXXVI Training Programme 2023-2024 (L to R) Dr. Amit Krishna De, Shri Prasanta K Bose, Prof. Manas Chakrabarty, Prof. Sudhendu Mandal, Swami Kamalasthananda Maharaj, Dr. Rajarshi Mitra, Mr. Biswarup Mukherjee and Prof. Prabir Kumar Saha



Release of special issue of *Science and Culture*



Third Professor Biswapati Mukherjee Memorial Lecture (L to R) Dr. Amit Krishna De, Shri Prasanta K Bose, Prof. Sudhendu Mandal, Dr. Atanu Pal, Prof. Manas Chakrabarty and Prof. Prabir Kumar Saha



Interview of Shri Subhabrata Chaudhuri, Director, BITM, Kolkata by the students at BITM, Kolkata



Visit to BITM, Kolkata



Workshop on Science Communication through Puppetry by Dr. Sima Mukhopadhyay



Shri Anurag Kumar, Director, Science City with the students at Science City





Workshop on Audio-visual Content Creation (Documentary Production) at Sister Nivedita University, Kolkata by Mrs. Jumur Datta Gupta and her team



Dr. Satyabrata Chakrabarti at The Asiatic Society with the students



Shri Ujjwalendu Mukhopadhyay with the students at the office of the CID, West Bengal



Visit to Alipore Zoo



Dignitaries on the dais in the Certificate Award Ceremony of XXXVI Training Programme 2023-2024  
(L to R) Dr. Amit Krishna De, Prof. Manas Chakrabarty, Prof. Anupam Basu, Prof. Anirban Kundu, Shri Prasanta K Bose and Prof. Bikash K. Chakrabarti





Felicitation Professor S.K. Talapatra



Felicitation Dr. Balaram Majumder



Certificate to school students of 'Amar Chokhe Meghnad Saha'



Release of Journal *Science and Culture*, Vol.90, 1-2, 2024 and Bengali e-paper *Bigyan Kahon* Vol 3, Issue 1 on National Science Day Celebration



Dignitaries distributing Certificate to college students of 'National Level Inter-College and University Poster Competition' on National Science Day Celebration