

ANNUAL ACTIVITY REPORT OF IACS (2022-23)

Indian Association for the Cultivation of Science (IACS), founded in the year **1876** by **Dr. Mahendralal Sircar**, an acclaimed medical practitioner of his time, is the oldest scientific institution in Asia funded by the Department of Science & Technology, Government of India and the Government of West Bengal. Sir C V Raman made his historic discovery of the 'Raman Effect' at IACS. IACS continues to adorn the mantle of academic and intellectual excellence in India and abroad and now stands at the crossroad of a critical era. Apart from fundamental researches in the various frontier areas of physics and chemistry, IACS has ventured in a significant way, for the past few years, into the emerging multidisciplinary areas such as non-conventional energy sources, advanced and novel nano-materials, chemical biology and interdisciplinary sciences. At present, IACS has more than 400 research students/associates working under the guidance of about 67 faculty members working in physics, chemistry and biology. The Institute has dynamic programmes for the pursuit of research leading to the doctoral degree and for post-doctoral work and has Visiting Scientists Scheme. There is an excellent library, good computing facilities and the campus is equipped with all modern facilities and amenities.

Apart from all these, IACS is also involved in multiple talk/popular lectures on different scientific topics, cultural events such as Cultvision, various competitions, different health and safety programs, Colloquiums, and many more national and international level programmes throughout the year. Below is the list of programs month-wise held during the Year 2022-23.

APRIL-2022

1. **CSS symposium** held on "**Recent trends in Measurement and Computational Sciences**" on 22nd April, 2022 at IACS.
2. **Blood Donation Camp** organized by **Science Association Club (SAC)** on 28th April, 2022 at IACS.

MAY-2022

1. **Lecture** on title "**Yoga & Breath work - Fight depression & anxiety**" as part of celebration of **8th International Yoga Day** at IACS on 6th May, 2022.
2. **Materials Science Colloquium** on title "**Quest for High Voltage Redox in Intercalation cathodes for Na and Li-ion batteries**" held on 13th May, 2022 at IACS. Details can be found on the link http://www.iacs.res.in/modules/event/images/event_10-05-227512.pdf
3. **Talk on Alzheimer's disease** on title "**Interaction with Apolipoprotein E modulates the function of Amyloid- β in Alzheimer's disease**" held on 19th May, 2022 at IACS.
4. **Institute Colloquium** on title "**Crystal Engineering. Its Potential in Modern Chemistry and Society**" held on 24th May, 2022 at IACS.

5. **An Advanced Scientific Training Program for ST Graduate Students** has been organized by IACS. The aim of the program is to identify graduate students from the Scheduled Tribe (ST) community from the eastern and north eastern region to inspire them in science and research. The program will provide the requisite facilities to arouse research and scientific interests for the sustainable development of young manpower. The program is undertaken for the scientific capacity building in the young ST community for their sustainable future. For more details click on http://www.iacs.res.in/modules/event/images/event_10-05-227321.pdf
6. **Theoretical Chemistry Meeting : Structure and Dynamics (TCMSD-2022)** organized by IACS from 26th-29th May, 2022. For more details click here <http://iacs.res.in/tcmsd2022/home.html>

JUNE-2022

1. IACS organized a **Mass Meditation programme** as its second program to celebrate the **8th International Yoga Day 2022** on 3rd June, 2022.
2. **One day Symposium** in Chemical Sciences organised by **Chemical Research Society of India (CRSI) Kolkata Chapter & School of Applied and Interdisciplinary Sciences, IACS, Kolkata** on 4th June, 2022. For details click on http://www.iacs.res.in/modules/event/images/cdiv1_26-10-227067.pdf
3. **Dr Nitya Anand Endowment Lecture of the Indian National Science Academy (INSA)** with title **"Sustainable Chemistry in Drug Discovery: A Few Concepts and Applications"** on 10th June, 2022 at IACS.
4. **"Rabindra Nazrul Sandhya"** celebrated at IACS on 17th June, 2022.
5. **Celebration of 8th International Yoga Day** at IACS on 21st June, 2022.

JULY-2022

1. **Seminar on Suicide Prevention** held at IACS on 6th July, 2022.
2. **Professor Abhishek Dey**, Chair, School of Chemical Science has been awarded the **James Hoeschele-AsBIC award from the Asian Biological Inorganic Chemistry**.
3. **Institute Colloquium** on title **"Living in the World of RNA Therapeutics"** held on 12th July, 2022 at IACS.
4. **146th Foundation Day Celebration Programme** and **"Har Ghar Tiranga" Programme** celebrated at IACS on 29th July, 2022.
5. **2nd Annual Convocation** Program celebrated at IACS on 29th July, 2022. For details on the program, click on the following link <http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=403>



2nd Annual Convocation Program celebrated at IACS on 29th July, 2022

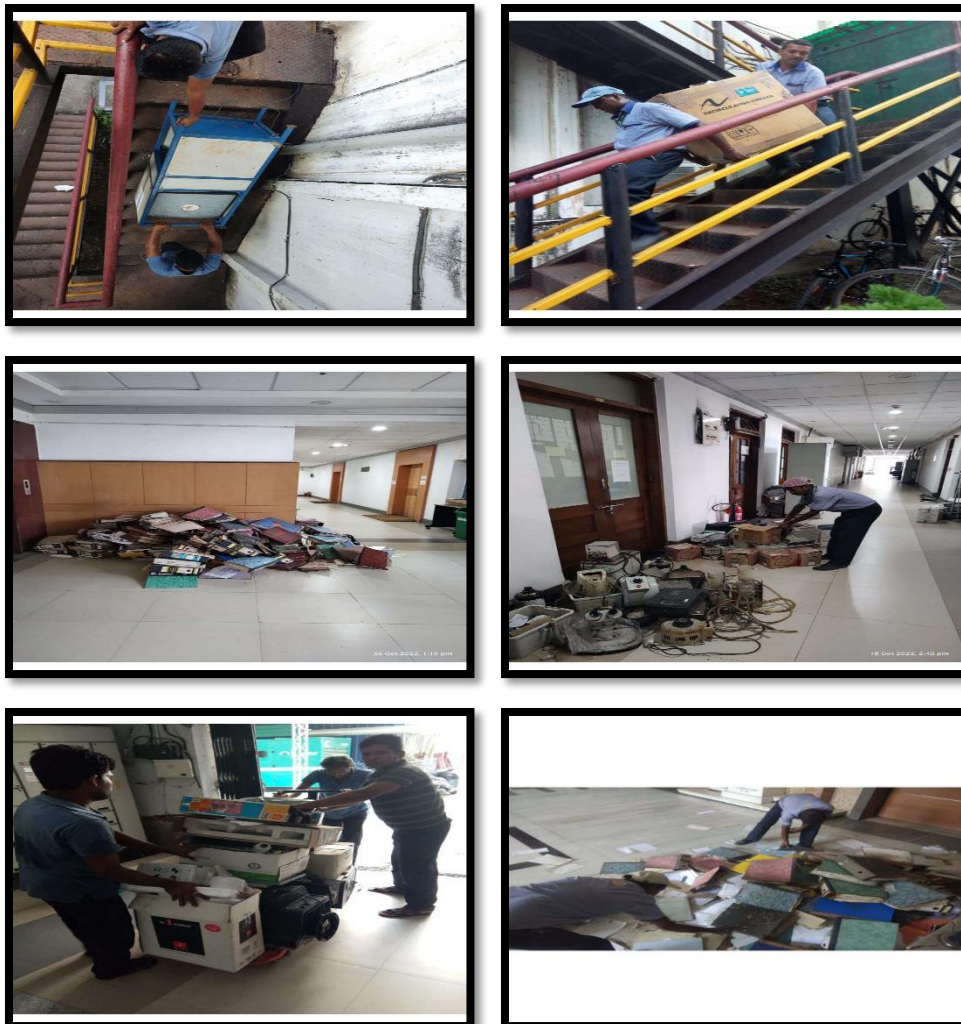
AUGUST-2022

1. A **workshop** on the following techniques was organized on August 04, 2022- 1) "**CRISPR and Gene Editing**" by Dr. Venkat Koushik Pulla, 2) "**Western blotting**" by Dr. Sumeer Raina, 3) "**Cell culture**" by Dr. Venkat Koushik Pulla.
2. **Dr. Anindita Das**, Assistant Professor in the School of Applied and Interdisciplinary Sciences has been conferred the **DAE Young Scientists Research Award**.
3. **Professor Suhrit Ghosh**, Dean-Academic and Senior Professor in the School of Applied and Interdisciplinary Sciences has been awarded the **C.N.R. Rao National Prize for Chemical Research by the Chemical Research Society of India**.
4. **Professor Pradyut Ghosh**, Senior Professor in the School of Chemical Science has been awarded the **J C Bose National Fellowship of DST**.
5. **Professor Krishnendu Sengupta**, Senior Professor in the School of Physical Science has been awarded the **J C Bose National Fellowship of DST**.

6. **75th Independence Day celebration** under the aegis of “Azadi Ka Amrit Mahotsav” on 15th August, 2022.
7. **Institute Colloquium** on title “How to design polymers to fulfil functions in solar cells, biosensors, and batteries?” at IACS on 29th August, 2022.

SEPTEMBER-2022

1. **58th Annual Social & Cultural Meet** was organized by the **Science Association Club (SAC)** during 1st and 2nd September, 2022.
2. **Open thesis (PhD) Colloquium** on title “Investigation of caloric effects in magnetic and ferroelectric thin film heterostructures” at IACS on 2nd September, 2022.
3. The Medical Cell of IACS has organized a **free vaccination camp** for all eligible IACS members and their immediate family members at M. R. Bangur Govt Hospital on Sept 8 and 9, 2022.
4. **Freshers Welcome and Felicitation Ceremony 2022** celebrated at IACS on 9th September, 2022.
5. **Invited talk** on title “Principled Structure Discovery from Graph Data” at IACS on 15th September, 2022.
6. **Mahammad ANAS (SRF)**, a student of Prof. Tarun Mandal in the School of Chemical Sciences, IACS has been awarded the **Best Poster Prize for the poster entitled "(P001) SYNTHESIS OF CATIONIC POLYCYSTEINE FOR STIMULI-RESPONSIVENESS AND DNA POLYPLEXATION"** in **14th International Symposium on Ionic Polymerization (IP'22)**, held at Ghent, Belgium, on September 11-16, 2022.
7. **'Cleaning up the corridors'** and **Disposal Activity** as part of **Special Campaign 2.0 of DST, GoI** starting from end of the month, September. Some photographs of the Cleanliness Drive may be found on link http://www.iacs.res.in/modules/texteditor/imagesfiles/Cleanliness_Photos.pdf



Disposal Activity as part of Special Campaign 2.0 of DST, Gol.

8. **Professor Narayan Pradhan**, Senior Professor in the School of Materials Science has been elected to Fellowship of INSA.

OCTOBER-2022

1. IACS organized a **popular talk** through online mode as its first program to celebrate the **Cyber Jaagrookta Diwas** for the year 2022-23 on 19th October, 2022.
2. **Dr. Anindita Das**, Assistant Professor in the School of Applied and Interdisciplinary Sciences has received the **Associateship of the Indian Academy of Sciences 2022**.
3. **Observance of Rashtriya Ekta Diwas (National Unity Day)** on 31st October, 2022 as a part of the **Vigilance Awareness Week celebration** from 31st October - 6th November. For more photos, videos and further information on this topic, click on <http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=327>



Rashtriya Ekta Diwas (National Unity Day) celebrated at IACS on 31st October, 2022

NOVEMBER-2022

1. **Lecture on "Enterprise Information Security and e-Vigilance"** on 4th November 2022 on account of **Vigilance Awareness Week** celebration. For more photos and videos click on <http://iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=333>



Lecture on “Enterprise Information Security and e-Vigilance”

2. **Essay Writing Competition** on account of **Vigilance Awareness Week** celebration. For more information, click on

<http://iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=334>

3. **Workshop on Preventive Vigilance** by **Shri Sowendra Chanda, Deputy Secretary (Vigilance), DST** as a part of the **Vigilance Awareness Week** celebrations at IACS. For more details click on

<http://iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=335>





Workshop on Preventive Vigilance

4. **Professor Debashree Ghosh** in the School of Chemical Sciences, IACS has been awarded the Walter Kohn Prize 2022 by ICTP Trieste. The citation reads "**The 2022 Walter Kohn prize is awarded to Dr. Debashree Ghosh for her pathbreaking work in developing novel quantum chemical tools for materials design and the study of biological function. Combining techniques from physics, chemistry and biology, her work has made important advances in our understanding of strongly correlated materials and complex biological systems**".
5. **Workshop on Green Energy Harvesting and Storage : Materials, Methods and Applications** organized at IACS from 16th-22nd November, 2022. For more details, please click on http://www.iacs.res.in/modules/event/images/cdiv1_12-10-228568.pdf
6. **APCTP-IACS-SNBCBS Workshop on Computational Methods for Emergent Quantum Matter** organized jointly at S. N Bose National Center for Basic Sciences, Kolkata and at IACS, Kolkata from 17th-25th November, 2022. For more information, click on <https://www.bose.res.in/Conferences/APCTP22/program/>
7. **Constitution Day Celebrations** at IACS on 26th and 28th November, 2022. For more photos and live videos, click on <http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=340>



Constitution Day Celebration at IACS on 26th and 28th November, 2022.

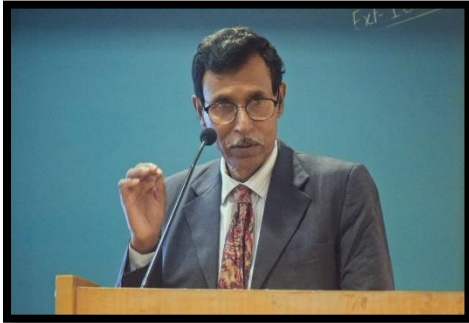
8. **Popular Talk** on “**Multifaceted Treatment for Obsessive Compulsive Disorder (OCD)**” held at IACS on 28th November, 2022.

DECEMBER-2022

1. A **meeting commemorating the life and work of Professor N.C. Sil** in the Indian Association for the Cultivation of Science held on 1st December, 2022.
2. **Conference on Designing Catalysts on Computers – 22** held from 2nd-3rd December, 2022.
3. **Institute Colloquium** on title “**Why has it been so difficult to arrive at a consistent theory of superconductivity in the high T_c cuprates?**” held at IACS on 7th December, 2022.
4. A **Campaigning Programme on Postal Life Insurance (PLI)** organized by the Department of Posts, Government of India, at IACS on 6th December, 2022.

5. **Celebration of Ambedkar Jayanti** on December 14, 2022 at IACS. For more details, photos and videos, click on

<http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=355>



Celebration of Ambedkar Jayanti on December 14, 2022 at IACS.

6. **Talk on "Coping With Sexual Harassment at Work Place"** at IACS on 28th December, 2022. For more photos and more details, click on

<http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=358>

BEHAVIOUR THAT QUALIFIES AS SEXUAL HARASSMENT:		
PHYSICAL	VERBAL	NON-VERBAL
Physical Violence	Comments And Questions About Appearance	Whistling
Touching	Life-style	Sexually suggestive Gestures
Unnecessary Close Proximity	Sexual Orientation	Display Of Sexual Materials
		Offensive Phone Calls



Coping With Sexual Harassment at Work Place

JANUARY-2023

1. **Program for InAdvanCS 2023** organised by School of Chemical Sciences at IACS between 5th-7th January, 2023. For details, click on http://www.iacs.res.in/modules/event/images/cdiv1_03-01-233540.pdf
2. **Invited lectures** on title “**Query Performance Prediction: the past, the present and the future**” at IACS on 9th January, 2023.
3. **Professor Somabrata Acharya**, Senior Professor in the School of Applied and Interdisciplinary Sciences has been inducted as a **Fellow of the Indian Academy of Sciences, Bangalore and the National Academy of Sciences India, Allahabad**.
4. **Professor Abhishek Dey**, Senior Professor in the School of Chemical Sciences has been inducted as a **Fellow of the Indian Academy of Sciences, Bangalore**.
5. The School of Physical Sciences, IACS organized a **two-day conference** on “**Recent trends in Condensed Matter Physics-2023**” on the 12th and 13th of January, 2023. For details, check the link http://www.iacs.res.in/modules/event/images/event_11-01-231152.pdf
6. **The Curtain Raiser event of IISF-2022, mandated by DST**, being organized under the auspices of the Management Committee of IACS, on 16th January 2023. For photos and videos, click on <http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=367>
7. **Open thesis colloquium** on title “**Renormalization and machine learning approaches for strongly correlated systems - development and applications**” at IACS on 19th January, 2023.

8. **Open thesis colloquium** talk on title “**Role of actomyosin complex in endocytosis and endocytic trafficking**” at IACS on 25th January, 2023.
9. **74th Republic Day Celebration** at IACS Premises on 26th January, 2023. For more photos and videos, click on <http://iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=370>



74th Republic Day Celebration at IACS Premises on 26th January, 2023

10. Colloquium lecture on title "EVOLUTION OF QUANTUM THEORY & A SIMPLE DERIVATION OF BELL'S INEQUALITY" at IACS on 30th January, 2023.

FEBRUARY-2023

1. **4th International symposium "Interdisciplinary approach to biological Sciences-2023" (IABS-2023)** from February 1-3rd of 2023 held at IACS. For more photos, click on <http://iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=374>



4th International symposium "Interdisciplinary approach to biological Sciences-2023"

2. **"International Mother Language Day"** celebration at IACS on 21st February, 2023. For more details and more photos and videos, click on <http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=376>



"International Mother Language Day" celebration at IACS on 21st February, 2023

3. **ANNUAL MEETING** OF SCHOOL OF BIOLOGICAL SCIENCES organized at IACS on 24th February, 2023. For details, check the link http://www.iacs.res.in/modules/event/images/cdiv1_18-02-232321.pdf
4. School of Applied and Interdisciplinary Sciences, IACS organized **two days "SAIS Symposium 2023"** from 27-28th February, 2023. For more details click on the link http://www.iacs.res.in/modules/event/images/cdiv1_25-02-236401.pdf
5. **National Science Day** Programme celebration at IACS on 28th February, 2023. For more photos, videos and report on this event, check the link <http://www.iacs.res.in/maincontroller.php?navid=24&subnavid=110&resubnavid=378>



National Science Day Programme celebration at IACS on 28th February, 2023.

MARCH-2023

1. **Session on Meditation and Mental Health**, held on 3rd March, 2023 at IACS.
2. **Institute Colloquium** on title "Photonic quantum science and technologies" held at IACS on 3rd March, 2023.
3. **Annual Cultural Programme** celebration at IACS - 'Cultvision 2023' held on 17th and 18th of March 2023.
4. **Talk on "Reconfiguring shortest paths in graphs"** held at IACS on March 30, 2023.

*****THE END*****