

Issue : 4

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**AcSIR**

# Bravura

Ascend of AcSIR



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Academy of Scientific and Innovative Research (AcSIR)  
CSIR- Human Resource Development Centre, (CSIR-HRDC) Campus,  
Sector 19, Kamla Nehru Nagar,  
Ghaziabad - 201 002.  
Uttar Pradesh, India.  
[www.acsir.res.in](http://www.acsir.res.in)

## Content

<b>Message</b>	
Director	03
<b>Highlights</b>	
8 <sup>th</sup> Convocation	04
Photography Contest	15
Dr. APJ Abdul Kalam Transdisciplinary Lecture Series	21
78 <sup>th</sup> Independence Day	24
<b>AcSIR Science Club</b>	25
<b>Achievements</b>	
Students Achievements	52
Faculty Achievements	68



8<sup>th</sup> Convocation



Photography Contest



Dr. APJ Abdul Kalam Lecture Series



Singularity Science Festival

## Director's Message

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It is a moment of immense pride as we celebrate the achievements of our students, researchers, and faculty in yet another remarkable year. The 8th Convocation marked not just the culmination of academic pursuits but also the beginning of new journeys filled with possibilities. To all our graduates, I extend my heartfelt congratulations—you have demonstrated perseverance, dedication, and excellence, and I have no doubt you will continue to make meaningful contributions to society.

It was a great honour and privilege for AcSIR as for the first time, Honoris Causa degrees were conferred upon distinguished scientists Dr. R.A. Mashelkar, Prof. Samir K. Brahmachari, Dr. T. Ramasami, and Prof. Suresh K. Bhargava whose pioneering work continues to inspire generations. Their contributions serve as a beacon, encouraging us all to push the boundaries of knowledge and innovation.

Recognizing excellence in research, the Best Ph.D. Thesis Award and the Prof. Baldev Raj Memorial Award celebrate scholars whose work embodies intellectual rigour and transformative impact. These accolades reflect our institution's commitment to fostering a culture of scientific excellence.

Beyond academia, we believe in nurturing creativity. The Photography Contest, spanning 29 research institutions, has provided a wonderful platform for students and faculty to showcase their artistic perspectives. Creativity and scientific curiosity go hand in hand, and we are proud to celebrate both.



In the spirit of inspiring young minds, we initiated the Dr. Abdul Kalam Transdisciplinary Lecture Series, bringing together thought leaders to spark dialogue, curiosity, and innovation. This initiative pays homage to the visionary whose ideals continue to shape the future of research and education in our country.

Further strengthening our international ties, the recent MoU with AIST Japan marks a significant step toward fostering research collaboration and academic exchange. As we expand our global footprint, such partnerships create valuable opportunities for learning and innovation.

Let us renew our commitment to knowledge, progress, and responsibility. It is through research, innovation, and ethical leadership that we can contribute to a brighter, stronger future for our nation and the world.

With best wishes for continued success,

Prof. Manoj Kumar Dhar  
Director, AcSIR

# AcSIR

## 8<sup>th</sup> Convocation

November 23, 2024  
at Bharat Mandapam, Pragati Maidan, New Delhi



*Prof. P. Balam, Chancellor and Prof. Manoj K. Dhar, Director AcSIR welcomes Chief Guest and Special Guest of the 8<sup>th</sup> Convocation of AcSIR*

The Academy of Scientific and Innovative Research (AcSIR) hosted its 8<sup>th</sup> Convocation, marking a significant milestone in academic and research excellence. The grand event—held at the prestigious Bharat Mandapam, Pragati Maidan, New Delhi—witnessed the presence of eminent dignitaries, accomplished researchers, and promising scholars. The meticulously planned ceremony reflected the institution's commitment to fostering scientific advancement and innovation.

## Welcoming the Luminaries: A Gracious Prelude to the Convocation

The day began with the arrival of distinguished guests. Senate Members, Deans, Associate Deans, Board of Studies Members, Directors of CSIR Institutes, and Finance Committee Members were warmly welcomed by the Director AcSIR. Special courtesies were extended to the Chancellor, Director General CSIR, Director General ICMR, the Guest of Honour, and the Chief Guest, with traditional floral greetings setting a ceremonial tone for the occasion.

## Academic Procession and Formal Opening: A Dignified Commencement

A group photograph of the Academic Procession preceded the grand entry into the Convocation Hall. As the procession—led by the Chancellor, Director AcSIR, and esteemed dignitaries—entered, the audience rose in reverence. A solemn invocation set the tone for the momentous occasion. The Director AcSIR then invited the Chancellor to formally declare the Convocation open, signifying the beginning of an inspiring academic celebration.

The Academic Procession was graced by the Chief Guest, **Dr. Jitendra Singh**, Hon'ble Minister of Science and Technology; Guest of Honour, **Prof. Ajay Sood**, Principal Scientific Advisor, Government of India; Special Guests, **Dr. N. Kalaiselvi**, Director General, CSIR and Secretary, DSIR; **Dr. Rajiv Bahl**, Director General, ICMR and Secretary, DHR; **Prof. P. Balaram**, Chancellor, AcSIR; **Prof. Manoj K. Dhar**, Director, AcSIR; **Prof. Ajay Dhar**, Associate Director, AcSIR; **Dr. R.A. Mashelkar**; **Prof. Samir K. Brahmachari**; **Prof. T. Ramasami**; **Prof. Suresh K. Bhargava**; **Prof. Surendra Pal**; **Prof. R.N.K. Bamezai**, Senate Member; **Prof. D. Srinivasa Reddy**, Board of Governors Member & Director, CSIR-IICT; **Prof.**

**Avanish Kumar Srivastava**, Director, CSIR-AMPRI; **Prof. Ranjana Aggarwal**, Director, CSIR-NIScPR; **Prof. N. Anandavalli**, Director, CSIR-SERC; **Prof. Venu Gopal Achanta**, Director, CSIR-NPL; **Prof. Manoranjan Parida**, Director, CSIR-CRRI; **Prof. Souvik Maiti**, Director, CSIR-IGIB; **Prof. Ajit Kumar Sashany**, Senate Member & Director, CSIR; **Dr. Zabeer Ahmed**, Director, CSIR-IIIM; **Prof. Sudesh Kumar Yadav**, Director, CSIR-IHBT; **Prof. Vibha Tandon**, Director, CSIR-IICB; **Prof. Alok Dhawan**, Director, CBMR; **Prof. Annapurni Subramanian**, Director, IIA; **Dr. Anil Kaul**, Director, PHFI-IIPH; **Dr. Shanta Dutta**, Director, ICMR-NIRBI; **Dr. Santasabuj Das**, Director, ICMR-NIOA; **Dr. Manisha Srivastava**, Director, ICMR; **Prof. K.R. Prasad**, Senate Member; **Dr. Ashwani Kumar**, Senate Member; **Sh. Deepak Vats**, Finance Committee; **Dr. Amitava Das**, Board of Studies; **Dr. Sunil Kumar**, Board of Studies; **Dr. Mamata Mohapatra**, Board of Studies; **Prof. Raji Reddy**, Dean, Chemical Sciences; **Prof. Aniruddha P. Sane**, Dean, Biological Sciences; **Prof. Chetan Gadgil**, Dean, Engineering Sciences; **Prof. Sanjay Dhakate**, Dean, Physical Sciences; **Dr. Anup Anvikar**, Dean, Medical Research; **Dr. Neerja Garg**, Dean, Mathematical and Information Sciences; **Prof. Raju Khan**, Associate Dean, Chemical Sciences; **Prof. Ram Kumar Sharma**, Associate Dean, Biological Sciences; **Prof. Dipankar Chatterjee**, Associate Dean, Engineering Sciences; **Dr. N.G. Rudraswamy**, Associate Dean, Physical Sciences; and **Prof. Neeru Saini**, Associate Dean, Medical Research.



Prof. P. Balaram, Chancellor AcSIR honoring Hon'ble Minister Dr. Jitendra Singh



Prof. Manoj K. Dhar, Director AcSIR honoring Principal Scientific Advisor, Prof. Ajay Sood



Prof. Manoj K. Dhar, Director AcSIR honoring Director General CSIR, Prof. N. Kalaiselvi



Prof. Manoj K. Dhar, Director AcSIR honoring Director General ICMR, Prof. Rajiv Bahl



Prof. Manoj K. Dhar, Director AcSIR honoring Chancellor AcSIR, Prof. P. Balaram

## Hon'ble Minister Dr. Jitendra Singh futuristic approach to education

**Dr. Jitendra Singh**, Union Minister of State (Independent Charge) for Science & Technology, addressed the graduating scholars, commending AcSIR's futuristic approach to education and its contribution to India's global rise in science and technology rankings. Despite being a relatively young institution, AcSIR ranks among the top 3% of global universities—a testament to its innovative academic framework. Dr. Singh attributed this success to AcSIR's unique ability to merge traditional disciplines like engineering, biosciences, and information sciences with cutting-edge fields such as medical research, quantum technology, and sustainable energy.

### A Vision for "Viksit Bharat 2047"

Dr. Singh lauded AcSIR's academic model as a crucial pillar in achieving Prime Minister Narendra Modi's vision of "Viksit Bharat 2047," which envisions a self-reliant and technologically advanced India by the nation's centennial of independence. He emphasized that AcSIR is not just a university but a torchbearer of a new academic culture—fostering groundbreaking research and driving India's leadership in global innovation. He also praised AcSIR's expansive network of collaborations with 82 institutions, including CSIR, ICMR, and DST, as a model for research partnerships that bridge scientific discovery and real-world application.

## Fostering a Startup Ecosystem Through iPhD

A key highlight of Dr. Singh's address was AcSIR's iPhD (Innovation-driven PhD) program, which integrates research, entrepreneurship, and industry collaboration from the outset of a scholar's journey. He emphasized that iPhD nurtures sustainable startups, ensuring that innovative ideas transition seamlessly from lab to market. This initiative, he noted, aligns with India's meteoric rise in the Global Innovation Index—from 81<sup>st</sup> to 40<sup>th</sup> under the Modi government.

### India's Growth in Space, Biotechnology, and Women's Leadership

Dr. Singh also reflected on India's rapid strides in space technology and biotechnology, highlighting how the number of space startups has grown from single digits to over 300. The biotechnology sector now hosts nearly 9,000 startups, significantly contributing to economic growth. Additionally, he celebrated women's growing representation in Indian science, acknowledging the appointment of CSIR's first-ever woman Director General. "Women have long been the backbone of scientific progress, and now they are receiving the recognition they rightfully deserve," he remarked.

### AcSIR: A Model for the National Education Policy 2020

Dr. Singh highlighted AcSIR's alignment with the National Education Policy (NEP) 2020, which emphasizes multidisciplinary learning



and academic flexibility. He shared examples of students combining biotechnology with economics—calling it a game-changer for higher education. He further connected AcSIR's mission with India's emerging technology priorities, including the BioE3 Biotechnology policy and advancements in quantum computing. "India is no longer following global technology trends—we are leading them," he declared.

### Global Collaborations and India's Scientific Influence

AcSIR's global footprint was another key focus. Dr. Singh spotlighted partnerships with prestigious institutions such as RMIT and Deakin University in Australia, the University of Turku in Finland, and AIST Japan. These collaborations, he noted, reaffirm India's position as a global leader in scientific research and education. The Convocation served as a reflection of India's dynamic progress in science and technology, propelled by institutions like AcSIR that are committed to innovation, entrepreneurship, and academic excellence. Dr. Singh's address reaffirmed the nation's resolve to become a scientific superpower and realize the vision of "Viksit Bharat 2047."



## Professor Ajay K. Sood Highlights Multidisciplinary Science and Innovation in Convocation Address

In a compelling address to graduating students, Professor Ajay K. Sood, Principal Scientific Adviser to the Government of India, underscored the transformative power of multidisciplinary approaches in science and their role in addressing some of the world's most pressing challenges. He emphasized that technological innovation, when paired with cross-disciplinary collaboration, can deliver groundbreaking solutions in areas such as climate change, energy security, healthcare, and artificial intelligence.

Addressing the students at a pivotal juncture in their careers, Professor Sood highlighted India's unique demographic advantage in contrast to aging populations elsewhere. He urged graduates to harness their knowledge and skills to contribute to the globally skilled workforce, noting that India's young and dynamic population holds the key to driving both national and international economic and technological advancement.

He further elaborated on the Government of India's visionary initiatives aimed at positioning the nation as a leader in cutting-edge research and sustainable development. Citing key programs such as the National

Quantum Mission, National Green Hydrogen Mission, National Language Translation Mission, India Semiconductor Mission, and IndiaAI, he outlined how these efforts are fostering innovation, enhancing technological self-reliance, and propelling the country toward a digitally empowered future.

Professor Sood encouraged the graduates to actively contribute to India's scientific progress and global leadership. He reminded them that their knowledge, skills, and innovation-driven mindset will play a crucial role in shaping the nation's future. Calling for lifelong learning and bold interdisciplinary collaboration, he inspired them to pursue scientific breakthroughs that make a tangible impact on society. His address left a lasting impact on the graduating students, reinforcing the importance of science, technology, and innovation in nation-building and motivating them to be at the forefront of India's journey towards scientific and economic excellence on the world stage.



## Conferment of Honoris Causa (Doctor of Science)

A major highlight of the 8<sup>th</sup> Convocation was the conferment of the prestigious Doctor of Science, *Honoris Causa* degrees upon four eminent scientists for their groundbreaking contributions.



**Dr. R.A. Mashelkar**, FRS, in recognition of his pioneering research contributions in polymer science and engineering, as well as for providing exceptional, transformative leadership to major Indian R&D institutions, industries, and corporations. His leadership and vision played a pivotal role in advancing the intellectual property movement in India and shaping the country's science, technology, and innovation policies in post-liberalized India.

**Prof. Samir K. Brahmachari**, in recognition of his pathbreaking research contributions toward elucidating the role of repetitive DNA in genome function in health and disease, using a transdisciplinary approach that integrates structural biology with genomics, molecular biology, and information science. He is a recognized pioneer in genomics, known for conceptualizing and establishing functional genomics in India, as well as for launching a collaborative, translational research platform on Open-Source Drug Discovery.



**Dr. T. Ramasami**, in recognition of his pioneering research contributions in the field of chromium chemistry, leading to the development of several innovative products and processes that have profoundly impacted both academia and industry. He has championed the cause of the Indian leather industry by providing cleaner tanning technologies and developing numerous value-added products using innovative and transformative approaches.

**Prof. Suresh K. Bhargava**, in recognition for transforming scientific breakthroughs in chemical sciences into impactful engineering solutions. His pioneering work in metallodrugs, nanotechnology, catalysis, applied additive manufacturing, and critical mineral processing has significantly advanced these fields. His research on gold-based cancer therapies and clean energy continues to drive innovation at the forefront of science.



## AcSIR Best PhD Thesis Award

The Best PhD Thesis Award (2023), recognizing 12 exceptional scholars across four disciplines—Biological, Chemical, Engineering, and Physical Sciences. Each awardee received a cash prize of Rs. 25,000, presented by the Guest of Honour, Prof. Ajay Kumar Sood.



**Dr. Sanap Sachin Nashik,**  
CSIR-CDRI, Lucknow (Biological Sciences)  
Supervisor: Dr. Rabi Sankar Bhatta

*Title of the Thesis:* Development of sustained release ophthalmic formulation containing anti-infective drugs for the management of polymicrobial keratitis



**Dr. Bani Jolly,**  
CSIR-IGIB, Delhi (Biological Sciences)  
Supervisor: Dr. Vinod Scaria

*Title of the Thesis:* Understanding transmission dynamics and clinical severity of COVID-19 using genomic approaches



**Dr. Nisha Mahey,**  
CSIR-IMTECH, Chandigarh (Biological Sciences) (Award received by her parents)  
Supervisor: Dr. Hemraj Nandanwar

*Title of the Thesis:* Exploration and evaluation of novel multidrug resistance inhibitors to target ESKAPE pathogens



**Dr. Sujay Pal,**  
CSIR-IICB, Kolkata (Biological Sciences)  
Supervisor: Dr. Debabrata Biswas

*Title of the Thesis:* Mechanistic understanding of eukaryotic transcriptional regulation by elongation factor ELL during genotoxic stress



**Dr. Attunuri Nagireddy,**  
CSIR-IICT, Hyderabad (Chemical Sciences)  
Supervisor: Dr. Maddi Sridhar Reddy

*Title of the Thesis:* Annulations through carbo-rhodation of alkynes for modular construction of Bi-cyclic scaffolds



**Dr. Ratul Paul,**  
CSIR-IICT, Hyderabad (Chemical Sciences)  
Supervisor: Dr. John Mondal

*Title of the Thesis:* Metalated porous organic polymer for photocatalytic carbon dioxide valorization



**Dr. Atapalkar Ranjit Shabu,**

CSIR-NCL, Pune (Chemical Sciences)

Supervisor: Dr. Amol A. Kulkarni

*Title of the Thesis:* Continuous flow synthesis of APIs and polymers: mechanochemistry, ozonolysis and anionic polymerization



**Dr. Murugan. C,** CSIR-CECRI, Karaikudi (Chemical Sciences)

Supervisor: Dr. A. Pandikumar

*Title of the Thesis:* Rational design and fabrication of bismuth based photoanodes for photoelectrocatalytic water splitting



**Dr. Arya Jyoti Deo,**

CSIR-IMMT, Bhubaneswar (Engineering Sciences)

Supervisor: Dr. Santosh Kumar Behera

Co-Supervisor: Dr. Debi Prasad Das

*Title of the Thesis:* Vision based instrumentation for iron ore disc pelletizer



**Dr. Yamini Mittal,**

CSIR-IMMT, Bhubaneswar (Engineering Sciences)

(Award received by her parents)

Supervisor: Dr. Asheesh Ku. Yadav

*Title of the Thesis:* Design and development of biotechnological processes for treating selected pollutants of the aqueous environment



**Dr. George Biswas,**

CSIR-NGRI, Hyderabad (Physical Sciences)

Supervisor : Dr. Tanvi Arora

*Title of the Thesis:* Mapping variability in structure and functioning of diverse basaltic aquifers



**Dr. Avritti Srivastava,** CSIR-NPL, New Delhi (Physical Sciences)

Supervisor: Dr. Sanjay Kumar Srivastava

*Title of the Thesis:* Development of efficient hybrid silicon solar cell employing effective surface micro-engineering

## Prof. Baldev Raj Memorial Award

The Prof. Baldev Raj Memorial Award (AcSIR-RMIT Joint PhD Program) was conferred upon Dr. Prashant Kumar, Dr. Ekansh Agarwal, and Dr. Shivaraju G.C., presented by DG, ICMR, Dr. Rajiv Bahl.



### **Dr. Prashant Kumar,**

CSIR-NPL, New Delhi & RMIT University, Australia

Supervisor : Dr. R.P.Pant, AcSIR/CSIR-NPL,

Prof. James Partridge, RMIT

Co- Supervisor: Dr.G.A.Basheed, AcSIR/CSIR-NPL,

Prof. Lan Wang, RMIT, Dr. Majid P Fard, RMIT

*Title of the Thesis:* Spin dynamic and magneto optical studies on mixed ferrites nanofluids and nanocomposites



### **Dr. Ekansh Agarwal,**

CSIR-CBRI, Roorkee & RMIT University, Australia

Supervisor : Dr. Anindya Pain, AcSIR/CSIR-CBRI, Prof. Sumeet Walia, RMIT

Co- Supervisor : Dr. Shantanu Sarkar, AcSIR/CSIR-CBRI,

Prof. Suresh Bhargava, RMIT

*Title of the Thesis:* Probabilistic stability analysis of reinforced soil retaining structures under static and seismic conditions (award received by his father)



### **Dr. SHIVARAJU GC,**

CSIR-CECRI, Karaikudi & RMIT University, Australia

Supervisor : Dr. A. S. Prakash, AcSIR/CSIR-IIP, Prof. Sumeet Walia, RMIT

Co- Supervisor : Dr. Siddharth S. Ray, Prof. Suresh Bhargava, RMIT

*Title of the Thesis:* Non-precious electrocatalysts for rechargeable metal-air battery (award received by his family member)

## Celebrating Doctoral Achievements

The convocation was the conferment of PhD degrees to accomplished scholars. The ceremony honored graduates across multiple scientific disciplines:

- Biological Sciences – 333 students (132 present)
- Chemical Sciences – 327 students (104 present)
- Engineering Sciences – 91 students (47 present)
- Physical Sciences – 94 students (54 present)

The Chancellor officially conferred degrees upon the scholars, acknowledging their relentless pursuit of knowledge.

## A Grand Conclusion

As the convocation drew to a close, the Chancellor delivered the final proclamation, officially declaring the convocation closed. The National Anthem echoed through the hall, marking the end of a momentous occasion. The Academic Procession made a dignified exit, leaving behind an aura of inspiration and accomplishment.

## Glimpses of Convocation





# AcSIR

## Photography Contest

### Capturing Science Through the Lens: Photography Contest at AcSIR

The fusion of science and creativity took center stage at AcSIR's **Photography Contest**, organized under the aegis of the **Science Club**. Centered around the thought-provoking themes of **Climate Change, Nature, Technology, and Energy**, the competition saw enthusiastic participation from students, who skillfully captured the essence of science through their lenses.

The contest was judged by **Rathika Ramasamy**, a renowned wildlife photographer, whose keen eye for detail and artistic expertise played a crucial role in

selecting the best entries. After a rigorous selection process, **three students emerged as winners**, while **two participants received consolation recognition** for their outstanding submissions.

The winners were honored with a **cash prize of ₹5000**, presented during the **Singularity Science Festival** at **CSIR-IGIB**. The prestigious moment was graced by **Prof. Manoj K. Dhar, Director, AcSIR**, who awarded the prizes as the **Chief Guest** of the event.

The contest not only showcased the artistic flair of budding scientists but also reinforced the role of photography in raising awareness about critical scientific and environmental issues. Congratulations to all the winners and participants for their inspiring contributions!



In 2009 October,  
Doordarshan honoured **Rathika Ramasamy** as  
**First wildlife women photographer in India**  
and featured her work in DD national.





◀ Top 3 Winners

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**Theme:**  
**CLIMATE CHANGE**

**Title: Himalayan Inferno**

*Description: This photo, taken while deploying camera traps in Uttarakhand, captures a forest fire engulfing a Pinus roxburghii forest in Ogala, Pithoragarh. The rising frequency of such fires, exacerbated by changing ambient environmental conditions, endangers both ecosystems and communities. The courageous local responders seen battling the blaze underscore the pressing need for urgent climate action.*

**Manisha Mathela**  
Wildlife Institute of India,  
Dehradun

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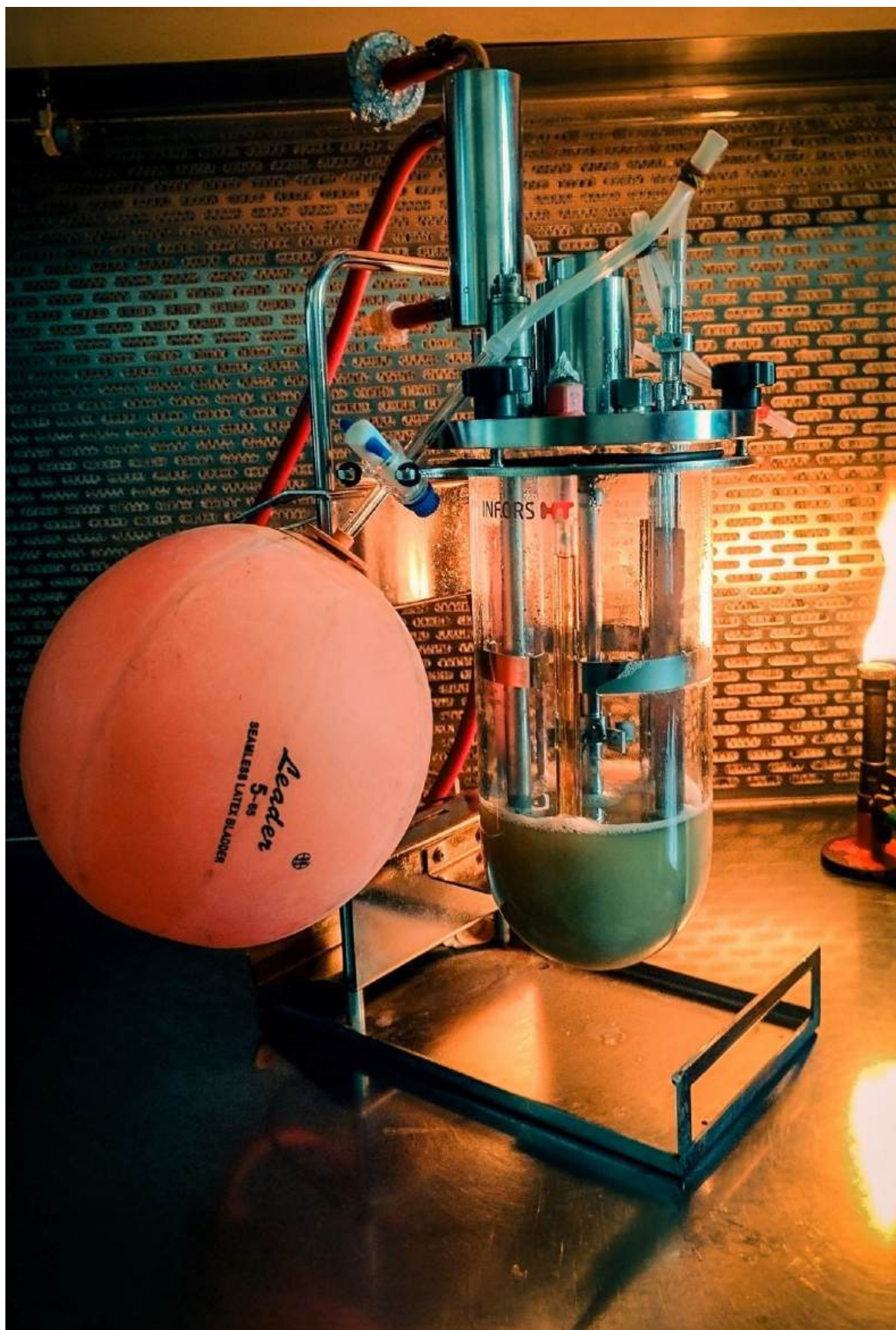
Top 3 Winners

Theme: **TECHNOLOGY**

Title: **Fermentation  
Frenzy**

Description:  
Fermentation  
technology harnesses  
the magic of microbial  
transformation. The  
fermenter provide  
controlled conditions  
like aeration,  
temperature, pH and  
nutrient availability for  
microbial  
transformation.

**Saranyadevi S**  
CSIR-NIIST,  
Thiruvananthapuram



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Theme: **NATURE**

Title: *Karpur Baoli - An abode of Goddess Kali*

Description: *The Surreal union of, four out of the five nature elements, where The Mother (Goddess Kali and her divine forms) is being taken care of, by The Mother Nature herself.*

**Anand Harsh Dwivedi**

CSIR-NEERI, Nagpur

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▲  
Top 3 Winners



## ◀ Consolation Recognition

Theme: **NATURE**

**Title: The Silky Water Falls.**

*Description: This photo is taken in Slow Shutter technique. In this technique we open the shutter for a long time (13 sec in this case) so that we can get this type of smooth water flow. This photo was taken at Lachung. Lachung is a town and hill station in Mangan district in North Sikkim. Lachung is at an elevation of about 9,600 feet (2,900 m) and at the confluence of the Lachen and Lachung Rivers, both tributaries of the River Teesta. The word Lachung means "Small Pass". The town is approximately 125 kilometres (78 mi) from the capital Gangtok.*

**Abhishek Mandal**  
CSIR-CMERI, Durgapur

Theme: **ENERGY**

**Title: *Harnessing the Wind: A Legacy of Power***

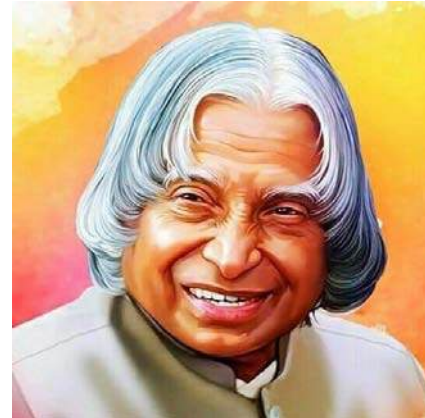
*Description: This photo captures the timeless beauty and enduring strength of a windmill. Standing tall against the sky, it symbolizes the spirit of sustainable energy, harnessing the natural power of the wind to fuel communities for centuries. This image not only celebrates historical ingenuity but also inspires a future where renewable energy leads the way.*

**Apurva Sharma**  
CSIR-CSIO  
Chandigarh



# Dr. APJ Abdul Kalam

## Transdisciplinary Lecture Series



### Fostering Innovation Through Interdisciplinary Learning

AcSIR successfully launched the Dr. APJ Abdul Kalam Transdisciplinary Lecture Series, a platform dedicated to fostering interdisciplinary learning and innovation. The lecture series aimed to inspire students by bridging diverse scientific disciplines, encouraging collaboration, and driving groundbreaking ideas.

The inaugural session took place on October 14, 2024, at the CSIR-NPL Auditorium, New Delhi, featuring an insightful lecture by Dr. R. A. Mashelkar, FRS. A visionary scientist and transformative leader, Dr. Mashelkar shared his expertise on India's Science, Technology, and Innovation landscape in the post-liberalization era. His address captivated the audience, offering

valuable insights and inspiration to students and researchers.

The event was further distinguished by the presence of Dr. N. Kalaiselvi, Director General, Council of Scientific and Industrial Research (CSIR); Dr. Rajiv Bahl, Director General, Indian Council of Medical Research (ICMR); and Prof. Venu Gopal Achanta, Director, CSIR-National Physical Laboratory (CSIR-NPL). Their participation underscored the significance of interdisciplinary learning in shaping the future of science and technology.

The event began with a warm welcome address by Prof. Manoj K. Dhar, Director AcSIR, who extended a heartfelt greeting to the distinguished guests and gathered audience, setting the tone for a day of knowledge sharing and inspiration.

The session concluded with a vote of thanks delivered by Prof. Ajay Dhar, Associate Director, AcSIR,

who expressed gratitude to the speakers, distinguished guests, and participants for making the event a resounding success.

Inspired by the legacy of Dr. APJ Abdul Kalam, this lecture series successfully ignited curiosity, encouraged cross-disciplinary learning, and cultivated an ecosystem of innovation. The event marked the beginning of an exciting journey toward fostering a culture of knowledge exchange and scientific exploration.

Dr. R. A. Mashelkar, FRS, FEng, Padma Shri, Padma Bhushan, Padma Vibhushan, expressed his deep respect for Dr. Kalam, reflecting on their long-standing association and shared conviction in grassroots innovation. He described Dr. Kalam as a humble yet visionary leader who advocated for scientific excellence and youth empowerment. Dr. Mashelkar recalled Dr. Kalam's inspiring belief that "everyone is someone" and that "minds on the



Welcomes speech by  
Prof. Manoj K. Dhar,  
Director, AcSIR



Inaugural Lecture by Dr. R. A. Mashelkar, FRS



Vote of thanks by  
Prof. Ajay Dhar,  
Associate Director,

margin are not marginal minds,” emphasizing the potential of marginalized individuals to drive innovation. He also shared a personal anecdote about how Dr. Kalam hosted barefoot grassroots innovators at Rashtrapati Bhavan, breaking protocol to serve them tea—demonstrating his humility and connection with ordinary people.

Dr. N. Kalaiselvi, Director General, CSIR and Secretary, DSIR, spoke about Dr. Kalam's extraordinary journey from distributing newspapers to becoming an internationally celebrated figure for his scientific achievements, particularly in India's defense and space sectors. She noted his commitment to inclusivity and his mission to empower students and create opportunities for everyone, particularly in science and technology.

Dr. Rajiv Bahl, DG and Secretary, DHR, reflected on Dr. Kalam's remarkable contributions to science and his passion for youth empowerment, noting how his leadership inspired generations of scientists and students to think creatively and dream ambitiously. He emphasized that Dr. Kalam's work in defense and space technologies was transformative for India's development, alongside his lifelong dedication to education, which fostered innovation throughout the country.

Prof. Manoj K. Dhar, Director, AcSIR, emphasized Dr. Kalam's enduring legacy as a beacon of resilience, vision, and dedication to the nation. He recounted how Dr. Kalam, despite his modest beginnings, ascended to prominence as a distinguished scientist and beloved people's President of India. Prof. Dhar highlighted Dr. Kalam's pivotal

contributions to India's missile and nuclear technologies, as well as his fervor for education and youth empowerment. He asserted that Dr. Kalam's philosophy of dreaming big, thinking creatively, and making positive societal contributions continues to motivate millions.



*Prof. Manoj K. Dhar honored Dr. R. A. Mashelkar*





Special Invitee  
Dr. N. Kalaiselvi,  
Director General CSIR  
and Secretary, DSIR



Special Invitee  
Dr. Rajiv Bahl, Director  
General ICMR and  
Secretary, DHR



Special Invitee  
Prof. Venu Gopal Achanta,  
Director, CSIR-NPL



Group photo after the Inaugural Dr. Abdul Kalam Transdisciplinary Lecture series

# 78<sup>th</sup>

# Independence Day



## Celebrating Independence with Scientific Spirit and National Pride

The 78th Independence Day was celebrated with great enthusiasm at CSIR-HRDC, Ghaziabad. The event was graced by Prof. Manoj K. Dhar, Director, AcSIR, and Dr. T. S. Rana, Head, HRDC, along with scientists, faculty, staff members, and AcSIR personnel who actively participated in the celebrations.

The occasion began with the hoisting of the national flag, followed by inspiring speeches. Prof. Manoj K. Dhar emphasized the role of scientific research and innovation in nation-building. He highlighted AcSIR's commitment to fostering excellence in research and academia, encouraging young minds to contribute towards the progress of India through knowledge and innovation.

Dr. T. S. Rana, in his address, reflected on the significance of Independence Day and the responsibilities that come with it. He spoke about the contributions of CSIR towards national development and urged the scientific community to continue striving for advancements that benefit society.

The celebration concluded with cultural performances, patriotic songs, and a collective pledge to uphold the values of integrity, excellence, and service to the nation.



# Science Club

## Activities

### CSIR-CDRI, Lucknow

#### Empowering Young Researchers: Highlights from the 'Disha' Student Guidance Program

The AcSIR Science Club and the ACS Student Chapter jointly organized the 'Disha (दिशा)' Student Guidance Program on November 6, 2024. This event served as a pivotal platform for students seeking academic and research opportunities, with a special focus on PhD Cotutelle programs.

The program was moderated and initiated by Ms. Ashta Singh (Enrolment No. 10BB21J04004), President of the AcSIR Science Club; Mr. Ajay Kawale, President of the ACS Chapter; and Mr. Anuj Raj (Enrolment No. 10BB23J04045), Treasurer of both the ACS and AcSIR Clubs. Their

collective efforts ensured a seamless and engaging session for the attendees.

Dr. Ritu Trivedi, AcSIR Coordinator and Senior Principal Scientist at the Endocrinology Division, CSIR-CDRI, inaugurated the event with an insightful address. She elaborated on the significance of PhD Cotutelle programs and encouraged students to consider enrolling in these prestigious collaborative research opportunities. Her address set the stage for an informative series of presentations.

Mr. Piyush Gupta provided a comprehensive overview of the AcSIR Cotutelle programs, covering key aspects such as eligibility criteria, application procedures, affiliated partner institutions, funding opportunities, and available scholarships. His detailed presentation equipped students with essential knowledge

to navigate the application process successfully.

Following this, Dr. K.M. Hijas shed light on the broader impact of Cotutelle programs, emphasizing the cultural exchange, global perspectives, and enhanced academic exposure these programs offer. His insights highlighted how such initiatives can significantly enrich a researcher's journey.

The 'Disha' Student Guidance Program proved to be an enlightening experience for all attendees, fostering a deeper understanding of international research collaborations. The event not only provided students with valuable academic guidance but also inspired them to explore global research avenues. With such initiatives, AcSIR continues to empower young researchers, guiding them towards a promising future in scientific excellence.



## **Decoding Electrochemical Impedance Spectroscopy: A Deep Dive with Dr. V. Ganesh**

**Karaikudi, August 31, 2024** – A wave of scientific curiosity swept through the **APJ Abdul Kalam Auditorium at CSIR-CECRI** as researchers, students, and faculty gathered for an illuminating technical talk by **Dr. V. Ganesh, Senior Principal Scientist at CSIR-CECRI**. Hosted by the **AcSIR Science Club**, the session delved into the fascinating world of **Electrochemical Impedance Spectroscopy (EIS)**—a technique that lies at the heart of electrochemical research, influencing advancements in batteries, fuel cells, corrosion studies, and materials science.

### **Setting the Stage for Discovery**

The event commenced at 10:00 AM, with a warm welcome by Dr. P. Murugan, AcSIR Coordinator at CSIR-CECRI, who emphasized the significance of such knowledge-sharing platforms in fostering research excellence. With 120 eager participants in attendance, the atmosphere was charged with anticipation for an insightful deep dive into electrochemical analysis.



**Unlocking the Mysteries of EIS:** Dr. V. Ganesh's session was a masterclass in breaking down the complexities of EIS into digestible insights. He took the audience on a journey through the technique's theoretical foundations, instrumentation intricacies, and real-world applications.

- ♦ **The Science Behind EIS** – Dr. Ganesh laid the groundwork by explaining how EIS helps in understanding material behaviors at the molecular level, using **mathematical models** to interpret intricate electrochemical processes.
- ♦ **The Tools of the Trade** – Moving from theory to practice, he provided a closer look at impedance analyzers, potentiostats, and electrode systems, shedding light on how precision instrumentation ensures accurate results in electrochemical studies.
- ♦ **Cracking the Data Code** – The final segment focused on making sense of EIS results. Dr. Ganesh expertly guided attendees through data interpretation techniques, cautioning against common errors, and offering pro tips for obtaining reliable, reproducible findings.

**Engaging Minds, Sparking Ideas:** Far from being a one-way lecture, the session transformed into an engaging exchange of ideas. Researchers and students posed thought-provoking questions, eager to explore the applications of EIS in their respective fields. Dr. Ganesh, with his wealth of experience, provided nuanced answers, encouraging participants to push the boundaries of their research using this powerful technique.

**Key Takeaways & Lasting Impact:** By 2:00 PM, as the session drew to a close, attendees walked away not just with a deeper understanding of EIS, but also with a renewed enthusiasm for scientific exploration. The talk reaffirmed the role of advanced electrochemical techniques in driving innovation and solving real-world challenges. With events like these, CSIR-CECRI continues to serve as a hub of scientific excellence, equipping the next generation of researchers with the tools they need to shape the future of electrochemical research.

Stay tuned for more such electrifying discussions from the **AcSIR Science Club**—where knowledge meets innovation!

## Mastering Soft Skills: A Transformative Training Experience for AcSIR Scholars

### Unlocking Success with Soft Skills

In the fast-paced world of research and innovation, technical expertise alone is not enough—**soft skills** play a pivotal role in shaping successful careers. Recognizing this, **CSIR-CECRI**, in collaboration with the **AcSIR Science Club**, hosted a **dynamic Soft Skill Training Program** designed to empower research scholars with essential professional and interpersonal skills.

**Venue:** AcSIR Lecture Hall & SDG Conference Hall

**Date:** October 19, 2024 (Saturday)

**Organized by:** CSIR-CECRI & AcSIR Science Club

### Meet the Experts

Guiding the scholars through this immersive experience were two seasoned professionals from **RSmart – Rathinam College of Arts & Science, Coimbatore:**

**Mr. Bibin Baby**, Assistant Professor, Department of Soft Skills & Aptitude

**Mr. Sivasankar Ramasamy**,

Assistant Professor, Department of Soft Skills & Aptitude

### Key Highlights of the Sessions

The training program covered a diverse range of topics essential for professional growth and career development:

#### Time Management & Problem Solving

- ♦ Mastering the art of prioritization and productivity
- ♦ Strategies to manage stress and balance multiple responsibilities

#### Workplace Etiquette & Professionalism

- ♦ Understanding corporate and research work ethics
- ♦ Developing effective communication and leadership qualities

#### Resume & Cover Letter Writing

- ♦ Crafting an impactful resume and cover letter
- ♦ Enhancing presentation skills for academic and corporate settings

#### Interpersonal Skills & Interview Techniques

- ♦ Refining communication skills to build strong professional relationships
- ♦ Mastering interview techniques with practical exercises

### An Interactive Learning Experience

The event wasn't just about listening—it was about doing! AcSIR scholars actively engaged in discussions, shared their challenges, and sought expert guidance on overcoming fears of public speaking and professional communication. The energy in the hall was electric, with over 100 enthusiastic participants deeply engrossed in the learning process.

### A Heartfelt Conclusion

As a token of appreciation, the scholars presented a **memento** to the expert trainers, acknowledging their invaluable insights and mentorship. The event ended on a high note, leaving every participant inspired and equipped with **practical skills to navigate the professional world with confidence.**

With initiatives like these, CSIR-CECRI continues to shape well-rounded researchers, ready to excel in global careers with technical brilliance and polished soft skills. Stay tuned for more transformative learning experiences from the AcSIR Science Club!



## Crystallography in Focus: A Cutting-Edge Workshop on X-ray Diffraction

### Exploring the Depths of X-ray Diffraction

In the ever-evolving landscape of materials science, **X-ray Diffraction (XRD)** remains an indispensable tool for researchers. To equip scholars and professionals with a deeper understanding of this powerful technique, **CSIR-Central Electrochemical Research Institute (CECRI)**, in association with **ICDD (USA), Vivertana Distributors Pvt. Ltd., ECS-CECRI Student Chapter, and AcSIR Science Club**, hosted a **Two-Day Workshop on “X-ray Diffraction: Fundamentals to Applications”** on **December 10-11, 2024**, at **CSIR-CECRI, Karaikudi**.

**Venue:** CSIR-CECRI, Karaikudi, Tamil Nadu

**Date:** December 10-11, 2024

**Organized by:** CSIR-CECRI, ICDD (USA), ECS-CECRI Student Chapter & AcSIR Science Club

### Meet the Experts

The workshop featured an elite panel of distinguished experts who provided hands-on training and insights into the principles of XRD:

**Dr. Soorya N. Kabekkodu** –

Editor-in-Chief, ICDD, USA

**Prof. T. N. Guru Row** – Emeritus

Professor, Indian Institute of Science, Bengaluru

**Mr. Kishorkumar Sindogi** –

Manager, Instrumentation Facility, Prayaga, Bengaluru

### A Deep Dive into XRD: Sessions & Hands-On Training

The two-day event was packed with a **blend of theoretical knowledge and practical exposure**, covering a range of fundamental and advanced XRD techniques.

#### Day 1 Highlights

- ◆ Fundamentals of Powder X-ray Diffraction (PXRD) and its role in material characterization.
- ◆ Understanding diffraction geometry, systematic errors, and calibration techniques.
- ◆ Hands-on training on **Search/Match procedures** using **PDF-5 +<sup>®</sup> Database** and **JADEPro<sup>®</sup> software** for phase identification.

#### Day 2 Highlights

- ◆ Advanced data collection strategies to enhance material characterization.
- ◆ Introduction to Profile Functions, Fitting, and Quantitative Phase Analysis (Rietveld Refinement).
- ◆ Hands-on training in JADEPro software for pattern indexing, whole pattern fitting, and crystallinity measurements.

### Hands-On Learning: A Game Changer

The interactive practical sessions were a highlight of the workshop, allowing participants to gain real-time experience in XRD data analysis. The hands-on demonstrations with cutting-edge software and databases elevated the participants' ability to analyze and interpret XRD data effectively.

### A Collaborative Learning Experience

With over 116 enthusiastic scholars, researchers, and professionals participating, the event became a melting pot of knowledge-sharing. The interactive Q&A sessions provided valuable insights into best practices for sample preparation, data accuracy, and material characterization.

### Impact & Takeaways

- ◆ Strengthened understanding of XRD principles, data collection strategies, and advanced analysis techniques.
- ◆ Practical exposure to PDF-5 +<sup>®</sup> and JADEPro<sup>®</sup> software, crucial for crystallographic research.
- ◆ Constructive discussions on refining research methodologies for enhanced material characterization.

### A Grateful Conclusion

As the workshop drew to a close, AcSIR scholars presented a **token of appreciation** to the experts, acknowledging their invaluable guidance. The event underscored CSIR-CECRI's commitment to fostering cutting-edge research and empowering young scholars with industry-relevant skills.

With more such initiatives on the horizon, the future of crystallography looks brighter than ever!





## Nature trail and wildlife photography

Date: 9<sup>th</sup> November 2024

Venue: Kukrail Forest, Lucknow

### *An Unforgettable Journey into the Wild*

The AcSIR Science Club recently organized an exhilarating **Nature Trail and Wildlife Photography Activity**, bringing together **50 enthusiastic participants** and four dedicated club members. This adventure was designed to foster exploration, environmental awareness, and a deep appreciation for biodiversity.

### Setting the Stage for Exploration

The event kicked off with a brief introduction to the AcSIR Science Club, setting the tone for a day filled with discovery and learning. Participants received an overview of the day's activities and were provided with essential safety guidelines to ensure a responsible and an enjoyable experience.

### The Trail Begins: From CSIR-CIMAP to Kukrail Forest

The journey started within the CSIR-CIMAP premises, leading into the lush expanse of Kukrail Forest, a region teeming with rich biodiversity. The pre-defined path had been meticulously prepared in advance, ensuring both safety and comfort.

As the group traversed the forest, they were immersed in nature's splendor. Towering trees, vibrant flora, and diverse wildlife created a captivating landscape. Enthusiastic discussions with naturalists enhanced the experience, as they shared insights on the behavior, habitat, and ecological significance of the various species encountered—including birds, primates, and insects.

### A Closer Look at Conservation

Upon reaching the **Kukrail Forest Reserve**, participants were enthralled by the ongoing conservation efforts for alligators. Observing these fascinating reptiles in their protected environment provided a unique learning

experience about breeding programs and ecological balance.

The reserve also featured a museum showcasing land animals, birds, and reptiles, offering deeper insights into the interconnectedness of these species within their ecosystems. Participants were particularly intrigued by the adaptive features that enable these creatures to survive and thrive in their natural habitats.

### Team-Building & Fun-Filled Activities

Following the nature walk, the group gathered on the lush green lawns for a series of interactive team-building games. Designed to foster collaboration, communication, and camaraderie, these games sparked energetic participation. Winners of each round were rewarded with mini prizes and goodies, adding an element of friendly competition and excitement.

### Reflections & Future Adventures

As the event drew to a close, participants expressed their gratitude and appreciation, reflecting on their newfound connection with nature. The activity ignited a deeper understanding of biodiversity and a sense of responsibility toward conservation.

The AcSIR Science Club extended heartfelt thanks to all participants and supporters. Encouraged by the overwhelming success of the event, the club is inspired to organize more nature-based adventures, keeping the spirit of curiosity, adventure, and environmental awareness alive.

Stay tuned for the next thrilling journey into nature!

### AcSIR Science Club Committee

President: Nikky Deepa ; Vice-president: Zafar Iqbal  
Secretary: Darshan Gupta; Treasurer: Gaikwad Gitesh





## **AcSIR Science Club Inauguration @ CSIR-CMERI, Durgapur**

### **Pioneering Mechanical Engineering Innovation**

*Advancing Technology, Fostering Talent, and Driving Innovation*

The Central Mechanical Engineering Research Institute (CMERI), under the Council of Scientific and Industrial Research (CSIR), stands as India's premier R&D institute in mechanical engineering. With a mission to advance technology, reduce dependence on foreign collaboration, and promote innovation, CMERI plays a crucial role in making Indian products globally competitive. Additionally, it nurtures student involvement in cutting-edge research, fostering future talent and driving innovation across various sectors.

AcSIR @ CMERI: A Hub of Learning and Collaboration

#### ***Where Knowledge Meets Creativity***

The AcSIR Science Club at CSIR-CMERI is committed to building a vibrant, inclusive student community that encourages free exchange of ideas and knowledge. Through various socio-cultural activities and programs, the club enriches student experiences and fosters a spirit of creativity, teamwork, and collaboration.

#### **Our Focus Areas:**

- ✓ Skill Development: Hosting workshops and lectures to enhance students' knowledge and technical abilities.
- ✓ Events & Celebrations: Organizing cultural events that promote awareness and appreciation of diverse traditions.
- ✓ Inclusive Activities: Creating engaging programs that welcome students from all backgrounds, fostering a sense of belonging.
- ✓ Camaraderie & Collaboration: Encouraging teamwork and peer learning within the student community.
- ✓ Supportive Environment: Providing a nurturing atmosphere that aids in both academic and personal growth.
- ✓ Holistic Development: Preparing students to be well-rounded professionals, excelling in their fields and contributing meaningfully to society.

#### **Our Vision: Inspiring Innovation & Collaboration**

We strive to create a dynamic platform that fosters collaboration, innovation, and knowledge exchange among the brightest minds in our institute. Our goal is to cultivate an environment where ideas flourish, expertise is shared, and groundbreaking advancements are achieved collectively.



### Key Pillars of Our Mission:

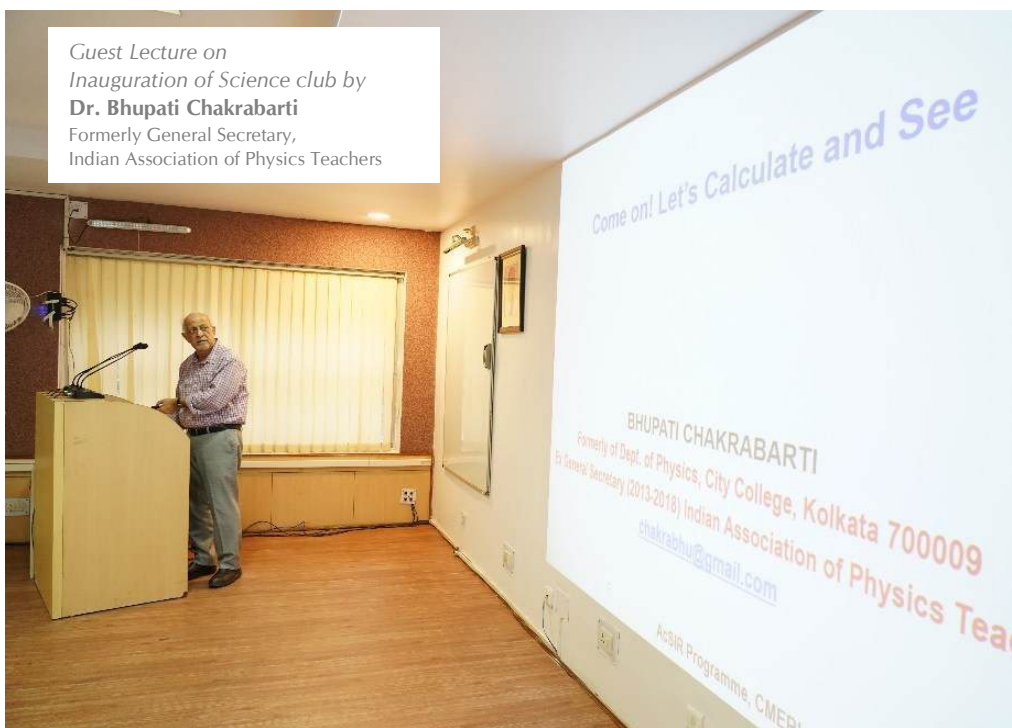
- ◆ Collaboration: Encouraging cross-disciplinary synergy and strong community engagement.
- ◆ Innovation: Providing creative freedom and access to essential resources for groundbreaking research.
- ◆ Knowledge Exchange: Promoting open knowledge sharing and mentorship for continuous learning.
- ◆ Social & Cultural Activities: Fostering a rich cultural environment to strengthen community bonds and overall well-being.

### Our Commitment to Excellence

We are dedicated to building a dynamic and evolving platform that adapts to the needs of our student community. By empowering the talented minds within our institute, we aim to drive excellence, innovation, and limitless possibilities for the future.



**Dr. Naresh Chandra Murmu**  
Director, CSIR-CMERI



**Mr. Sourabh Khambra**  
(President, Science Club)



**Ms. Dilruba Ferdous**  
(Vice President, Science Club)



**Ms. Ruchika Dhyani**  
(Treasurer, Science Club)



**Mr. Suman Chowdhury**  
(Secretary, Science Club)



**Prof. Dipankar Chatterjee**  
Associate Dean, Engineering Sciences, AcSIR



**Dr. Pranab Samanta**  
AcSIR Coordinator



## A Thriving Hub for Innovation and Scientific Engagement

In the ever-evolving landscape of scientific research and innovation, academic and research institutions play a crucial role in fostering collaboration and knowledge exchange. The **AcSIR Science Club at CSIR-Central Road Research Institute (CRRI), New Delhi**, has emerged as a vibrant platform dedicated to enriching the research ecosystem. Established on **June 26, 2024**, the club has since been actively engaging scholars, researchers, and scientists in a wide range of intellectual, cultural, and scientific events.

### A Strong Foundation with Visionary Leadership

The successful functioning of the club is attributed to the leadership and efforts of its dedicated personnel. Under the guidance of **Dr. Manoranjan Parida (Director, CSIR-CRRI)** and **Dr. Mukti Advani (AcSIR Coordinator, CRRI-CSIR)**, the club has seen tremendous growth in its activities. A core team of enthusiastic members, including **Ashwani Gupta, Niketan Rana, Priyadarshan Singh, and Syeda Sabina Yashmin**, along with administrative support from **Lalit Sagar and Rashmi Mishra**, have worked tirelessly to organize and execute diverse events.

### Empowering Scholars Through Learning and Skill Development

One of the key objectives of the AcSIR Science Club is to **empower scholars with essential skills beyond research**, helping them become well-rounded professionals. In line with this vision, the club organized a **Communication Skills Workshop on July 12-13, 2024**, at AcSIR Headquarters in Ghaziabad. The workshop focused on improving **scientific communication, research presentations, and interpersonal skills**, which are critical for researchers aiming to make a mark in academia and industry.



### **A Dedicated Space for Research Excellence: AcSIR Ph.D. Scholars Lab at CSIR-CRRI**

One of the most significant milestones in the journey of the AcSIR Science Club at CSIR-CRRI was the **inauguration of the AcSIR Ph.D. Scholars Lab on July 16, 2024, by Dr. N. Kalaiselvi**, a distinguished scientist and an inspiring leader in the field of research and innovation. The establishment of this state-of-the-art research facility marks a transformative step in providing a dedicated and well-equipped space for Ph.D. scholars pursuing advanced research in science and technology.

Research scholars often face challenges related to infrastructure, access to cutting-edge technology, and an environment that fosters focused research. Recognizing these needs, the AcSIR Ph.D. Scholars Lab was conceived as a collaborative space designed to enhance the research capabilities of young scientists at CSIR-CRRI. The lab is equipped with modern research tools, high-performance computing systems, analytical instruments, and specialized software that facilitate interdisciplinary research.

This initiative aims to empower Ph.D. students by providing them with an advanced workspace where they can conduct their experiments, analyze data, and collaborate with peers and mentors. The lab is also designed to be a dynamic learning environment, fostering a culture of innovation, critical thinking, and problem-solving.



Apart from serving as a technical and research hub, the AcSIR Ph.D. Scholars Lab will also act as a knowledge-sharing platform, where students can engage in brainstorming sessions, research discussions, and project collaborations. Regular seminars, workshops, and expert interactions will be organized within the lab to ensure that scholars remain updated with emerging scientific trends and technological advancements.

Dr. N. Kalaiselvi, during the inauguration, emphasized the importance of providing young researchers with the right resources, mentorship, and environment to unlock their full potential. She encouraged students to leverage this facility for high-impact research that can contribute to scientific and technological advancements in the country.

With the establishment of this lab, the AcSIR Science Club at CSIR-CRRI has taken a pioneering step in supporting research scholars, ensuring they have access to world-class infrastructure and a stimulating intellectual atmosphere. This initiative is expected to significantly enhance research output, encourage interdisciplinary collaborations, and nurture the next generation of scientists and innovators.





### Commemorating National and Cultural Events

The AcSIR Science Club not only promotes scientific engagement but also encourages a strong sense of national pride and cultural heritage among its members. The club enthusiastically participated in **Independence Day celebrations on August 15, 2024**, organizing activities that emphasized the contributions of science and technology to India's progress. Similarly, **Teacher's Day on September 5, 2024**, was celebrated with heartfelt tributes to mentors and educators, acknowledging their invaluable role in shaping the future of research and innovation. Adding to its commitment to cultural promotion, the club actively engaged in **Hindi Pakhwada celebrations from September 1-14, 2024**. This initiative aimed to **promote the use of Hindi in scientific and technical communication**, fostering inclusivity and linguistic diversity within the research community.



AcSIR-CRRI PhD Scholars at Sports Event on Independence Day Celebrations at CRRI



"Niketan Rana being honored with an award at the Independence Day Sports Event at CRRI, recognizing his dedication and accomplishments!"

AcSIR-CRRI PhD Scholars at Sports Event on Independence Day Celebrations at CRRI



"Priyadarshan Singh being honored with an award at the Independence Day Sports Event at CRRI, recognizing his dedication and accomplishments!"



"Lakshmi T. being honored with an award at the Independence Day Sports Event at CRRI, recognizing her dedication and accomplishments!"



Syeda Sabina Yashmin being honored with an award at the Independence Day Sports Event at CRRI, recognizing her dedication and accomplishments!"

### Bridging Borders: International Interactions and Research Exposure

In an era where global collaborations define the future of science, the AcSIR Science Club provided scholars with an opportunity to interact with international researchers. A **special session with Dr. Saurabh Mishra, a Postdoctoral Fellow at Hohai University, China**, was held on **August 27, 2024**. This interactive session allowed students to gain



insights into **global research trends, international fellowships, and postdoctoral opportunities**.



Further expanding its reach, the club actively participated in the **Singularity Science Festival at CSIR HQ on September 20, 2024**. The festival served as a platform for young scientists to **showcase their research innovations, interact with experts, and gain exposure to emerging scientific breakthroughs**.



Winner in Quiz competition: Mr. Ayushman Guha



V. Mukesh Vashan, AcSIR-CRRI, August 2023 Batch. Secured 2nd prize in the Debate competition at “Singularity – AcSIR Science Festival 2024” Held at CSIR – IGIB, New Delhi on 20-September-2024.

### Exploring New Frontiers: Lectures and Webinars on Scientific Innovation

A defining moment for the club was the **inaugural lecture of the Dr. APJ Abdul Kalam Transdisciplinary Lecture Series on October 14, 2024**. Named after the visionary scientist and former President of India, this lecture series aims to **inspire young minds by exploring interdisciplinary research themes and real-world applications of science and technology**.

Another thought-provoking event was the **webinar on Sustainable Mobility, held on October 19, 2024**. As concerns about environmental sustainability and climate change grow, this session brought together experts from the fields of transportation, urban planning, and environmental science to discuss innovative solutions for sustainable mobility.

### Encouraging Sportsmanship: The Shanti Swaroop Bhatnagar Memorial Tournament

Scientific research is often a mentally intensive process, and to promote a healthy balance between intellectual pursuits and physical well-being, the AcSIR Science Club organized the **Shanti Swaroop Bhatnagar Memorial Tournament from November 13-16, 2024**. This event provided a platform for students and researchers to engage in friendly sports competitions, fostering teamwork, camaraderie, and a spirit of healthy competition.



## Enhancing Research in Transportation: A Workshop on Structural Equation Modeling

The AcSIR-CRRI Science Club successfully organized a half-day workshop on Structural Equation Modeling (SEM) for Roads and Transportation on December 11, 2024. Held at the Council Hall, CSIR-CRRI, the workshop aimed to equip researchers and students with essential knowledge of SEM and its applications in transportation studies.



### A Deep Dive into SEM

Structural Equation Modeling (SEM) is a powerful statistical technique used to analyze complex relationships between variables, making it an essential tool in transportation research. The workshop provided an in-depth understanding of SEM's fundamentals, procedural aspects, and real-world applications in road safety, pedestrian behavior, and sustainable urban transport. A key highlight was the expert session by **Dr. Bivina Geetha Rajendran**, an Assistant Professor in the Department of Civil Engineering at MANIT Bhopal. With extensive research in pedestrian behavior, human factors, and sustainable transport, Dr. Bivina shared valuable insights into how SEM can be leveraged to address challenges in transportation planning.

### Engaging Sessions and Discussions

The workshop commenced with a special address by Prof. Manoranjan Parida, Director, CSIR-CRRI, followed by an introduction to the session by Dr. Mukti Advani, AcSIR Coordinator. Dr. Bivina's lecture covered:

- ◆ Basics & Procedural Details of SEM – A theoretical foundation, including how SEM is used for statistical modeling in transportation.
- ◆ Practical Applications of SEM – Real-life case studies on road safety, transportation planning, and pedestrian studies.
- ◆ Interactive Q&A Sessions – Participants engaged in discussions, gaining clarity on implementing SEM in their research.

### Active Participation and Impact

The event witnessed enthusiastic participation from AcSIR scholars, faculty members, and CRRI researchers. The interactive sessions allowed attendees to gain hands-on knowledge, making the workshop a valuable learning experience.

The event concluded with a vote of thanks by the Science Club members, followed by a networking lunch. The workshop successfully bridged the gap between theory and practice, empowering researchers with new analytical tools to enhance their work in the field of transportation.

### A Bright Future for the AcSIR Science Club

From skill-building workshops and interactive sessions to cultural celebrations and sports tournaments, the AcSIR Science Club at CSIR-CRRI continues to be a hub of inspiration, learning, and collaboration. With an unwavering commitment to scientific excellence and holistic development, the club is set to expand its activities further, empowering future scientists and innovators.

As the club looks ahead, it remains dedicated to nurturing a scientific temperament, encouraging multidisciplinary collaboration, and building a vibrant academic community that drives progress and innovation.





## IGIB Science Club: A Journey of Innovation and Engagement

The IGIB AcSIR Science Club has had an electrifying tenure from August to December 2024, creating a vibrant space for scientists, researchers, and students to connect, collaborate, and celebrate science beyond the lab. Through dynamic events and engaging activities, the club has fostered creativity and intellectual stimulation among scientists from various CSIR institutes. Here's a glimpse into our most exciting moments!

### Singularity Science Festival: Where Science Meets Creativity!

20th September 2024

The crown jewel of this tenure was the **Singularity Science Festival**, a grand celebration of science, art, and intellect! Scientists and researchers from **CSIR-NPL, CSIR-CRRI, CSIR-NIScPR, and CSIR-IGIB** came together for a day packed with thrilling competitions and interactive sessions.



*Bravura, Ascend of AcSIR (July-Dec, 2024)*

The event was honored by the presence of Prof. Manoj K. Dhar, Director, AcSIR, as the Chief Guest, and Dr. Souvik Maiti, Director, CSIR-IGIB, who graced the occasion and encouraged participants with their inspiring words. Additionally, Dr. Mukti Advani, AcSIR Coordinator from CSIR-CRRI, Dr. Bipan Kumar, AcSIR Coordinator from CSIR-NIScPR, and Prof. Neeru Saini, Associate Dean of Biological Sciences, attended the festival, adding to the event's prestige and intellectual depth.

#### Event Highlights:

**Debate:** A fiery discussion on contemporary scientific challenges.

**Science Rangoli:** A mesmerizing fusion of creativity and scientific wonder.

**Science Quiz:** A brain-teasing showdown of scientific knowledge.

**Science Fiction Writing:** Imagining the future with innovative storytelling.

**Science Stand-Up:** Because science is funnier than you think!

**Photography Contest:** A creative showcase of science through the lens on themes Nature, Energy, Climate Change, and Technology, with three winners receiving prizes of Rs. 5000 each.

This festival not only sparked innovation and camaraderie but also gave participants a refreshing platform to express their creativity while strengthening inter-institutional ties. A resounding success!

### Movie Night: *Hidden Figures* – A Story of Inspiration

28th November 2024: A compelling blend of science and social justice took center stage as the IGIB Science Club hosted a special screening of *Hidden Figures*. This powerful film, showcasing the true story of three African-American women mathematicians at NASA, ignited deep discussions on gender equality, diversity, and inclusion in STEM.

**Post-Screening Discussion:** Attendees reflected on how historical challenges continue to shape today's scientific community and explored ways to foster inclusivity in research and academia.

This thought-provoking evening left everyone inspired to champion diversity and representation in science.





# SINGULARITY

The AcSIR Science Festival





## AcSIR Science Club Inauguration @CSIR-IICB

Coordinator

**Dr. Jayati Sengupta**

Senior Principal Scientist

Advisory Committee members

**Dr. G. Senthil Kumar**

**Dr. Bijesh P**

**Dr. Md Jahangir Alam**

HRG Representative

**Dr. Sanjay Dutta**, Senior Principal Scientist

**Mrs Debasree Das**, STO (1)

Executive Assistant

**Ms. Rohini Majumdar**

President

**Ms. Suparna Dhar**

Vice President

**Ms. Ahana Banerjee**

Secretary

**Mr. Atmaja Karmakar**

**Mr. Uddipto Ghosh Dastidar**

Executive members

**Ms. Sayani Ghosh**

**Mr. Subhadip Kundu**

**Mr. Arijit Nandy**

**Mr. Sudip Dey**

### AcSIR Science Club Inauguration at CSIR-IICB: A New Era of Collaboration!

The AcSIR Science Club at CSIR-IICB has been officially inaugurated, setting the stage for an exciting journey of scientific innovation, collaboration, and engagement. The event brought together distinguished leaders, researchers, and scholars to celebrate the launch of this dynamic platform dedicated to fostering knowledge exchange and creativity in science.

### A Grand Beginning

The momentous occasion was graced by Prof. Manoj K. Dhar, Director, AcSIR, as the Chief Guest. His inspiring address emphasized the importance of scientific dialogue beyond the lab, motivating young researchers to push boundaries and think innovatively.

Adding to the grandeur of the event, Prof. Vibha Tandon, Director, CSIR-IICB, shared her vision on fostering interdisciplinary collaboration to drive groundbreaking scientific advancements. Also present at the event were Dr. Sanjay Dutta, AcSIR Coordinator, CSIR-IICB, Dr. Dipyaman Ganguly, along with AcSIR research scholars and faculty members, all of whom reinforced the club's mission to cultivate a space where scientists and scholars can collaborate, exchange ideas, and take science beyond conventional research.



### A Glimpse into the Future

The AcSIR Science Club at CSIR-IICB is set to be a hub of innovation, with a lineup of thrilling activities including:

- Scientific Debates – Engaging discussions on pressing scientific issues.
- Research Presentations – Showcasing groundbreaking studies and discoveries.
- Interactive Workshops – Hands-on learning experiences with experts.
- Outreach Programs – Spreading scientific awareness and engagement beyond academia.

This landmark event marks the beginning of an exhilarating journey, as the club aims to inspire, educate, and drive scientific curiosity.





## Report on the Independence Day Event

Date: 15th August 2024

Venue: AcSIR Auditorium

The AcSIR Science Club celebrated India's Independence Day with an engaging event that united science enthusiasts, parents, and young innovators. The highlight of the event was an insightful talk by Mr. Saaesh Gandhi, a distinguished figure in the field of robotics, who shared his journey of introducing robotics to his son at an early age. His guidance led his son to excel in both national and international robotics competitions.

Mr. Gandhi emphasized the importance of nurturing a child's interest in science and technology from a young age, sharing how their shared passion for robotics not only deepened their father-son bond but also opened doors to competitive success. His talk resonated with parents in the audience, offering inspiration on how to guide children in similar pursuits.

The session also appealed to robotics enthusiasts, students, and technology aficionados. Mr. Gandhi discussed the technical challenges of robotics and the immense satisfaction derived from creating innovative solutions. His story showcased the power of dedication and collaboration, both in personal and professional growth.

The event attracted an enthusiastic audience and featured a lively Q&A session, where participants exchanged ideas with Mr. Gandhi. Attendees expressed their gratitude for the insights and motivation to explore robotics and technology further.

Overall, the event was a great success, fostering a vibrant and inspiring atmosphere. It reaffirmed the AcSIR Science Club's commitment to promoting science and innovation. The event left attendees motivated to pursue their own scientific endeavors, and the club looks forward to organizing similar events in the future to nurture the spirit of curiosity and innovation within the community.

AcSIR Science Club Team: -

**Dr. Narsinh Thakur**

AcSIR Coordinator

**Mr. Rohit M Dhavjekar**

AcSIR Executive Assistant

**Mr. Sohan PM**

AcSIR-Science Club President

**Ms. Falak Shaheen**

AcSIR-Science Club Vice-President

**Ms. Shyamli K Singh**

AcSIR-Science Club Treasurer

**Mr. Shlok Chitre**

AcSIR-Science Club Secretary



## Ganesh Chaturthi Celebration

Date: 7<sup>th</sup> September 2024 - 13<sup>th</sup> September 2024

Venue: Club House, AcSIR Science Club

### Introduction

The AcSIR Science Club at CSIR-NIO, Goa, organized a grand celebration of Ganesh Chaturthi from 7<sup>th</sup> to 13<sup>th</sup> September 2024. The festival brought together staff, students, and their families for a week of devotion, joy, and community bonding. Morning and evening Aarti Pooja sessions were held, where participants worshipped Lord Ganesha with deep reverence. In parallel to the religious events, a series of fun-filled and intellectually stimulating activities took place, fostering a spirit of camaraderie and celebrating the festival in an eco-friendly manner.

### Organizers and Participants

The event witnessed enthusiastic participation from all sections of the CSIR-NIO community. The organizing team, led by the AcSIR Science Club, ensured that the festivities were both enjoyable and environmentally conscious. Students, staff members, and their families joined hands to make the event a memorable one. The celebration included rituals, cultural performances, and scientific activities that reflected the diverse interests of the participants.

*The key participants in the event included:* AcSIR Science Club Team: Led by the club members and volunteers, the team ensured seamless coordination and successful execution of the event.

*CSIR-NIO Staff and Families:* Faculty, researchers, and staff members, along with their families, came together to participate in the festival with great zeal and enthusiasm.

### Eco-Friendly Celebration

This year's Ganesh Chaturthi at the AcSIR Science Club was celebrated

with a focus on environmental sustainability. The Lord Ganesha idol used for the pooja was completely biodegradable, made of soil, symbolizing the importance of preserving nature. Moreover, the event adhered to principles of eco-consciousness by serving food on leaf plates, ensuring minimal plastic waste. Special attention was given to prevent noise pollution, with celebrations remaining mindful of the surrounding environment. This approach aligned with CSIR-NIO's commitment to promoting eco-friendly practices in all events.



### Event Highlights

*Aarti Pooja:* The morning and evening Aarti sessions were the spiritual highlight of the event, where participants gathered to offer prayers and seek blessings from Lord Ganesha. The pooja was performed with traditional rituals, and the atmosphere was filled with devotion, chants, and the fragrance of flowers and incense.

*Scientific and Cultural Activities:* A variety of activities were organized alongside the religious celebrations, encouraging creativity, teamwork, and scientific curiosity among participants. These events included:

*Quiz Competition:* A science quiz that tested the knowledge of participants, fostering a spirit of healthy competition and learning.

*Painting and Rangoli:* Art enthusiasts participated in a painting competition, creating colorful depictions of Lord Ganesha. The Rangoli competition brought vibrant designs to the venue, adding to the festive atmosphere.

*Sports Activities:* Various sports events, including a lemon spoon race, were held, which saw active participation from children and adults alike, adding a playful element to the celebration.

*Mehndi Competition:* Participants showcased their artistic talents in a Mehndi (henna) competition, where intricate designs were drawn, reflecting the cultural diversity of the community.

*Pot Breaking:* A traditional activity, pot breaking, was also organized, where participants tried to break a clay pot while blindfolded, adding excitement and fun to the event.

### Conclusion

The Ganesh Chaturthi celebration at the AcSIR Science Club was not just a religious festival but a convergence of cultural, scientific, and social engagement. The eco-friendly approach, combined with a wide array of activities, made the event unique and memorable for all. The active involvement of staff, students, and their families strengthened the sense of community within the CSIR-NIO campus, creating lasting memories and reinforcing the values of sustainability and unity.

The AcSIR Science Club extends its gratitude to all participants, volunteers, and organizers for their dedication and enthusiasm, ensuring the success of the event.

## Establishment of the Science Club

The Science Club of CSIR NIScPR was officially established in July 2024 with the following office bearers:

- **President:** Adarsh Raghuvanshi
- **Vice-President:** Abhinav Banait
- **Secretary:** Shekhar Sharma
- **Treasurer:** Moumita Mazumdar

The club aims to create a space for collaboration, scientific activities, and policy discussions, in line with CSIR NIScPR's mission.

## Photography Contest (August 2024)

Our first task was evaluating submissions for a photography contest in August 2024. The contest focused on various scientific topics i.e. Environment, Technology, Nature and Climate.

- The Science Club acted as the evaluation team for the contest.
- After detailed reviews, we submitted the photographs to AcSIR for final approval.
- The Best three (3) photographs based on the theme is as follows



Abhinav Banit, Climate Change



Raghul M R, Technology



## Teachers' Day Celebration (September 5, 2024)





The Science Club at CSIR NIScPR successfully organized a memorable **Teachers' Day event on September 5, 2024**. The entire event was planned, executed, and also funded by the club members, showcasing their hard work and dedication. It was well-received, with students and teachers praising the thoughtful planning and execution.

The event was attended by key figures, including the **Director, CSIR NIScPR, Dr. Ranjana Aggarwal** (Center in the picture of three), who shared inspiring life lessons. The **AcSIR Coordinator, Dr. Vipin Kumar** (Right side in the picture) also shared personal stories from his academic journey in Punjab, ending with a humorous interaction with **Dr. Sujit Bhattacharya** (Left side in the picture), which added a light-hearted moment.

A special highlight was when the AcSIR Coordinator introduced the Science Club members to the entire institute and appreciated their efforts. This recognition made the event even more meaningful, leaving a positive impression on everyone and reinforcing the club's role in the institute.

### Science Festival

Our first AcSIR Science Club event, "**Singularity**", was a collaborative effort organized by CSIR-NIScPR, CSIR-IGIB, CSIR-CRRI, and CSIR-NPL, and hosted by CSIR-IGIB on 20<sup>th</sup> September, 2024. The active involvement of these institutions was instrumental in planning the event, managing participant entries, and promoting the festival. The result was a well-organized, community-driven celebration of science.

Students from CSIR-NIScPR enthusiastically participated in various competitions during the Science Festival. The NIScPR Rangoli team secured second place, showcasing the creative talents of Ms. Himani Meena, Mr. Shekhar Sharma, and Mr. Prajith KK. In the Science Fiction Competition, Ms. Moumita Mazumdar and Mr. Pranjal proudly achieved runner-up positions. Moreover, Mr. Ajay Sharma captivated the audience with his winning performance in Stand-up Comedy, which became a highlight of the event.

### NIScPR Rangoli Team (Earned 2<sup>nd</sup> Place)



Mr. Shekhar Sharma



Mr. Prajith K K

### NIScPR Science Fiction (Runners-up)



Ms. Moumita Mazumdar



Ms. Himani Meena



Mr. Pranjal Jain

### Stand-up Comedy winning performance



Mr. Ajay Sharma



Group Photo with Prof. Manoj K. Dhar, Director, AcSIR, Coordinator, AcSIR (NIScPR), Ph.D. Scholars, and Faculty Members at the event 'Singularity,' jointly organized by CSIR-NIScPR, IGIB, CRRI, and NPL, and hosted by CSIR-IGIB on 20th September 2024



## Adapting to Nature's Rhythms:

### **Dr. Rishikesh P. Bhalerao's Insightful Talk at CSIR-NBRI**

The AcSIR Science Club, CSIR-NBRI, hosted an inspiring lecture on November 14, 2024, featuring Dr. Rishikesh P. Bhalerao, a renowned plant developmental biologist from the Umeå Plant Science Centre, Sweden. With a packed audience of around 150 researchers and scientists, the event was a deep dive into the fascinating world of plant adaptation to seasonal changes.

#### **Decoding Nature's Signals**

Dr. Bhalerao's talk, titled "*Coping with Noise: Lessons from Seasonal Adaptation in Plants*," explored how plants interpret environmental signals to regulate

their growth cycles. From dormancy release to bud break, his research unveils the strategies plants use to thrive despite unpredictable climatic variations.

#### **An Engaging Scientific Exchange**

The event began with an insightful introduction by Dr. Sameer V. Sawant, Chief Scientist at CSIR-NBRI, who highlighted Dr. Bhalerao's groundbreaking work in plant developmental biology. This was followed by a warm welcome address by Dr. P.A. Shirke, Chief Scientist at CSIR-NBRI, who presented a bouquet to Dr. Bhalerao, setting the tone for an enlightening session. Dr. Bhalerao's lecture captivated the audience as he explained how plants maintain developmental robustness despite environmental fluctuations. The session saw an engaging Q&A round, where young researchers actively participated, posing questions on plant resilience and seasonal adaptation. Honoring Dr. Bhalerao's contributions, the Director, CSIR-NBRI presented him with a token of appreciation. The event concluded with a high tea, offering an opportunity for informal discussions and networking.

#### **Beyond the Lecture: Nurturing Future Scientists**

A post-talk interactive session provided students an exclusive opportunity to seek career guidance and delve deeper into plant molecular biology. With a focus on research pathways and industry relevance, this discussion proved invaluable for aspiring scientists in the field. From decoding plant resilience to inspiring young minds, the session was a resounding success, reaffirming the importance of plant science in a changing world.





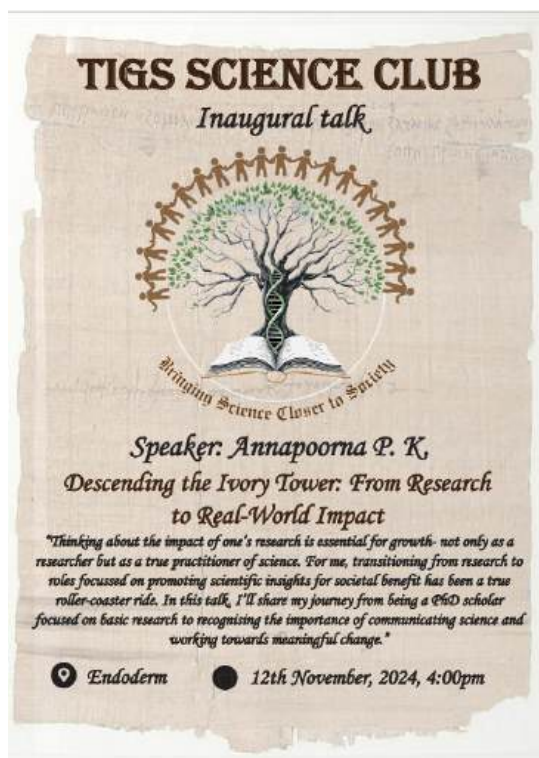
## **TIGS Science Club: A Platform for Scientific Engagement and Outreach**

In a world where science is the key to innovation and progress, the TIGS Science Club stands as a bridge between scientific research and society. Launched under the Directives of AcSIR, this initiative by TIGS PhD Students aims to make scientific knowledge more accessible, engaging, and impactful. With a strong foundation built on collaboration and curiosity, the club is dedicated to fostering a culture of knowledge-sharing through a series of interactive and educational activities.

Guiding this dynamic platform is Co-ordinator Shivranjani, supported by AcSIR employee Bhuvana. The leadership team comprises President Soujanya, Vice-President Deepika, Treasurer Nimisha, and Secretary Namrata, who work together to orchestrate various initiatives. The club's planned activities include inaugural talks by distinguished scientists, lab tours and documentary screenings for school students, work presentations, stimulating quiz and crossword competitions, interactive stalls and booths on Science Day, and an exciting Treasure Hunt event on Agriculture Day at GKVK.

Setting the tone for its mission, the club's first major event was an inspiring talk by **Dr. Annapoorna P. K.**, a trained scientist who has carved an unconventional yet impactful career in science communication and societal outreach. Held on 12th November, this session saw enthusiastic participation from the TIGS Director, faculty, staff, and students, creating an engaging forum for discussion. The event's poster, designed by club members, was also unveiled, symbolizing the initiative's creative and scientific spirit.

This inaugural event was met with resounding appreciation, with attendees offering constructive feedback that reinforced the importance of such student-led initiatives. With a vision to inspire, educate, and connect science with society, the TIGS Science Club is poised to become a hub of scientific exploration and outreach, encouraging future scientists to think beyond the lab and make a tangible impact on the world.





## **Extracurricular and Science Club Activities at ICMR-RMRC NE, Dibrugarh**

ICMR-RMRC NE, Dibrugarh, has been actively engaging its students through various events and activities, encouraging participation and fostering a collaborative spirit in both academic and extracurricular spheres.

The Anti-Ragging Poster Display event, held on 9th July 2024, was conducted in compliance with UGC regulations to promote a ragging-free campus. Scholars designed six creative posters, alongside four downloaded from the UGC website, which were strategically displayed across the campus to raise awareness. The event successfully initiated the Science Club's activities, with enthusiastic participation from students who shared their perspectives on the issue. Participants included Parishmita Boruah, Anisha Shah, Pratik Kumar Rath, Pratibha Singh, Thounaojam Asia Devi, Kashung Shangamla, Ngangbam Pushparani Devi, Samina Rehman, Rislyn Debbarma, Pratisthita Baruah, and Badal Maharana. Additionally, members of the AcSIR Science Club registered themselves on the UGC anti-ragging portal to further demonstrate their commitment to the cause.



On 15th July 2024, the AcSIR PhD Scholars Science Club actively participated in the AcSIR Photography Contest, competing with 60 submissions under the themes of Nature, Climate Change, Technology, and Energy. After careful selection, three outstanding photographs were chosen for final submission: "A serene summer morning in Dong Valley, Arunachal Pradesh" by Parishmita Boruah, "Breeze of serenity calming feathered friends" by Pratik Kumar Rath, and "The mighty Brahmaputra in spate as seen from the bank of Dibrugarh" by Pratisthita Baruah. This competition provided an excellent opportunity for students to explore creative expressions within science and photography.

August was filled with fervor as the Independence Day Cultural Program and Sports Week were celebrated. PhD scholars showcased their talents through a patriotic group song "Vande Mataram" performed by Ngangbam Pushparani Devi, Pratibha Singh, Thounaojam Asia Devi, Parishmita Boruah, Pratik Kumar Rath, Badal Maharana, and Pratisthita Baruah. Pratibha Singh performed a solo patriotic dance, while Pratisthita Baruah recited two self-composed poems. Badal Maharana contributed a solo song performance. The sports competitions—featuring badminton and chess—promoted teamwork and healthy competition. The badminton tournament saw Pratisthita Baruah securing third place. Chess participants included Anisha Shah and Thounaojam Asia Devi, showcasing their strategic skills in the game.



Anti-Ragging Posters Display at ICMR-RMRC NER Campus

A prestigious scientific workshop in Shillong, organized in collaboration with the Department of Health Research (DHR), focused on zoonotic diseases. PhD scholars presented innovative models on disease transmission and surveillance programs, which captivated the experts and sparked insightful discussions. The key takeaways from the workshop emphasized the need for enhanced research, a One Health approach, vaccine development, and interdisciplinary collaboration in managing zoonotic diseases effectively. Notable model presentations included:

1. ST transmission cycle by Parishmita Boruah
2. JE Transmission cycle by Pratibha Singh
3. Surveillance programs to control zoonotic diseases by Anisha Shah



On National Science Day, a Poster Presentation Competition and a Science Quiz were organized, providing scholars with a platform to exhibit their scientific acumen and innovative ideas. Exceptional presentations included:

- Anisha Shah's poster on "Spotted fever group rickettsia: A review of the studies done in India" won second prize.
- Kashung Shangamla's poster on "Esophageal Cancer in The Northeast India: An Overview" secured third place.
- Additional notable posters included Thounaojam Asia Devi's work on "Development of Animal Model of Neuropathogenesis of Enterovirus 71 (EV71)" and Pratik Kumar Rath's "Genomic Landscape of Gastric Cancer Patients from North East India".



The highly engaging Science Quiz tested participants' knowledge and critical thinking, fostering an atmosphere of excitement and intellectual exchange. The winners of the quiz competition were:

- First Prize: Pratibha Singh and her team
- Second Prize: Anisha Shah and her team
- Third Prize: Parishmita Boruah and her team

The celebrations culminated with the official release of the Science Magazine, featuring meticulously crafted abstracts from AcSIR PhD scholars. This publication stands as a testament to the groundbreaking research being undertaken at ICMR-RMRC NE, Dibrugarh, and highlights the commitment of scholars to advancing scientific knowledge. Through these diverse initiatives, the ICMR-RMRC NE AcSIR Science Club continues to inspire students, nurture curiosity, and create an engaging environment for learning and collaboration. These events not only enrich the academic experience but also promote holistic development, reinforcing the institution's dedication to scientific excellence and societal impact.



# Students

## Achievements



### VAIBHAV MITTAL

Enrollment No. 20EE19A01001, Supervisor: Dr. Manojit Samanta and Dr. D.P. Kanungo, CSIR-CBRI, Received **Best Paper Award** at the 8<sup>th</sup> International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics (8ICRAGEE) at IIT Guwahati in December 11 – 14, 2024.



### DIXITKUMAR NANUBHAI TANDEL

Enrollment No. 10BB20J03003, Supervisor: Dr. Krishnan H Harshan, CSIR-CCMB, Won the **DST-SERB GRANT** at Keystone symposium on Positive stranded RNA viruses in Ireland (Oct' 2024)



### ALAGU SANKARESWARAN

Enrollment No. 10BB21J03006, Supervisor: Dr. G R Chandak, CSIR-CCMB, Won the **DST-SERB GRANT** at American Society for Human Genetics (ASHG) Annual Meeting- 2024 in Colorado, USA (Nov' 2024)



### PRATHEUSA MACHHA

Enrollment No. 10BB18A03006, Supervisor: Dr. K Thangaraj, CSIR-CCMB, Won the **ASHG travel award** at American Society for Human Genetics (ASHG) Annual Meeting- 2024 in Colorado, USA (Nov' 2024)



### YOGITA KAPOOR

Enrollment No. 10BB21A03023, Supervisor: Dr. Vinay K Nandicoori, CSIR-CCMB, won the **EMBO registration waiver and CSIR travel grant** to attend EMBO BacNet conference 2024 in Spain and present her work on identifying and delineating the roles of novel DivIVA domain containing proteins of mycobacteria in cell division (Sept'2024).



### CHAYNITA DASHORA

Enrollment No. 10BB20A03013, Supervisor: Dr. Anant B Patel, CSIR-CCMB, ICBEM student **Travel award to attend ICBEM 2024** Meeting on Brain Energy Metabolism, Slovenia (Sept' 2024).



### SITANSHU SARANGI

Enrollment No. 10BB19J03032, Supervisor: Dr. Santosh Kumar, CSIR-CCMB, One of the finalists of the Inspiring Science Award by TNQ Technologies.



### TUHINA PRASAD

Enrollment No. 10BB20A03012, Supervisor: Dr. Megha Kumar, CSIR-CCMB, Won the **Best poster award** at the IZIM 2024, ILS Bhubaneswar (Nov'2024).



### AVNI BLOTRA

Enrollment No. 10BB20A03027, Supervisor: Dr. Karthikeyan Vasudevan, CSIR-CCMB, Won the **Best poster award** at the OMICS Technologies in Agriculture & Human Health conference at the CSIR-IICT, Hyderabad



### G SRINIVAS REDDY

Enrollment No. 10BB19J03029, Supervisor Name: Dr. Puran Singh Sijwali, CSIR-CCMB, Won the Best poster award at the 32nd National Congress on Parasitology (Oct'2024)



### RUTUJA ARUN PENDHARKAR

Enrollment No. 10BB24J03002, Supervisor Name: Dr. Ishwariya Venkatesh, CSIR-CCMB Won the John Miller Travel award (Nov'2024)

**ANIL KUMAR UNDRAJAVARAPU**

Enrollment No. 10cc20A05012, Supervisor: Dr. Vishal Mahesh DHAVALE, CSIR-CECRI, Chennai unit. Received the **Best Oral Presentation Award** in the International Conference on Materials and Membrane for Water and Energy (ICMMWE) 2024 organized by CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat in July 10<sup>th</sup> – 12<sup>th</sup>, 2024.

**NEESHMA M**

Enrollment No. 10cc20A05008, Supervisor: Dr. Santoshkumar D Bhat, CSIR-CECRI, Chennai unit. Received the **Best Poster Presentation Award** in the International Conference on Materials and Membrane for Water and Energy (ICMMWE) 2024 organized by CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat in July 10<sup>th</sup> – 12<sup>th</sup>, 2024.

**MYMOONA P**

Enrollment No. 10cc18A05002, Supervisor: Dr. C. Jeyabharathi, CSIR-CECRI & Co-Supervisor: Dr. Shibu E.S., University of Calicut. Published a Paper entitled, "Adsorbed Carbon Monoxide-Enabled Self-Terminated Au-Grafting on Pt6 Nanoclusters for Enhanced Methanol Electrooxidation" in highly impacted Journal, Small (IF = 13.30) (<https://doi.org/10.1002/sml.202401998>).

**ARDRA S. DARSAN**

Enrollment No. 10PP21A05006, Supervisor: Dr. P. Murugan & Co-Supervisor: Dr. A. Pandikumar CSIR-CECRI, Received **Best Poster Award** in 2<sup>nd</sup> edition of the International Conference on Green Hydrogen (ICGH) - 2024 at Bharat Mandapam, New Delhi in September 11 – 13, 2024.

**C. MURUGAN**

Enrollment No. 10CC18J05007, Supervisor: Dr. A. Pandikumar, CSIR-CECRI, Received the **AcSIR Best Thesis Award under Chemical Sciences** category in AcSIR 8<sup>th</sup> convocation held at New Delhi.

**SHIVARAJU G C**

Enrollment No. 10CC17J05003, Supervisor: Dr. A. S. Prakash, CSIR-CECRI, Received the **Prof. Baldev Raj Memorial Award for Best performance in PhD under AcSIR – RMIT University Joint PhD program** in AcSIR 8<sup>th</sup> convocation held at New Delhi.

**ATHIRA PRAKASH**

Enrollment No. 10CC23J05013, Supervisor: Dr. R. Malini, CSIR-CECRI, Received **Best Poster Award** in International Conference on Water (ICW 2024) at Kottayam in December 13 – 15, 2024.

**PRAVEENRAJ E**

Enrollment No. 32EE23A05001, Supervisor: Dr. R. Malini, CSIR-CECRI, Received **Best Poster Award** in International Conference on Water for Life 2024 at IIT Madras in December 12 – 14, 2024.

**MOHD FARMAN**

Enrollment No. 32EE19A06010, Supervisor: Dr. T Eshwar, CSIR-CEERI, Received the Best Oral Presentation Award in the 6th conference on Emerging Technologies: Micro to Nano: An International Conference, ETMN-2024 organized by Jamia Millia Islamia (A Central University) New Delhi and Manipal University Jaipur, 22-23 November 2024.

**MOHINI SIDDHARTH SAWANE**

Enrollment No. 20EE20A06009, Supervisor: Dr. Mahanth Prasad, CSIR-CEERI, Filed the second Indian patent titled "**Fabrication Process of MEMS Piezoelectric Sensor for Biomedical Applications**" on October 9, 2024. During the PhD research, achieved notable accomplishments, including filing **two patents** and publishing **five journal papers** in reputed scientific journals

**AASHISH RANJAN**

Enrollment No. 20EE22J06001, Supervisor: Dr. Anand Abhishek, CSIR-CEERI, Pilani, Received the **Som Nath Mahendra Memorial Student Travel Award** at the IEEE-Power Electronics Drives and Energy Systems (PEDES) conference, held at National Institute of Technology Karnataka, Surathkal on Dec 18 – 21, 2024.

**MD TOUSEEF KHAN**

Enrollment No. 10BB18J08006, Supervisor: Dr. Muthukumar S P, CSIR-CFTRI, Received the **Best Oral Presentation Award** at International Microbiology Conference Microcosm 1.0 on “Innovating microbial solutions towards a sustainable future” held at JSS college of pharmacy, Mysore, Karnataka, India on November 15-16, 2024.

**RAJASHRI**

Enrollment No. 10BB22A08034, Supervisor: Dr. Muthukumar S P, CSIR-CFTRI, Mysuru, Received the **India's Science and Engineering Research Board (SERB) Overseas Visiting Doctoral Fellowship (OVDF)**, to carry out part of research work at Department of Food Science, Purdue University, USA. The tenure of this program is from Aug 19, 2024, to Aug 18, 2025

**SRIHARI.B**

Enrollment no. 20EE22J08001, Supervisor: Dr. Harish Prashanth K. V, Received the secured **bronze medal in Mr World Pro show Bodybuilding** and fitness championship held in Sriracha, Chanburi, Thailand on November 10th 2024 organised by united world sports and fitness federation (UWSFF)

**KUNAL SINGH PATEL**

Enrollment No. 32EE24A12005, Supervisor: Dr. RAVIKANT JAIN, CSIR-CMERI,  
 1. Received **Third Prize at the Seminar Hall on Debate Competition** organized under theme of VIGILANCE AWARENESS WEEK at CSIR-CMERI DURGAPUR on 04 NOVEMBER, 2024  
 2. Received WORKSHOP COMPLETION CERTIFICATE at CSIR-CMERI on WORKSHOP entitled "Introduction to Latex" organized BY AcSIR CSIR-CMERI DURGAPUR in 06 SEPTEMBER, 2024

**LALITA KUMARI**

Enrollment No. 20EE22J12009, Supervisor: Dr. Nripen Chanda, CSIR-CMERI, Durgapur, Received the **second best poster prize** at the international conference on Frontiers in Nanomaterials Sciences: Aspects in biotechnology and chemical engineering (FINS 2K24) at NIT Patna from 21-23 December, 2024

**PRATIM BHATTACHARYYA**

Enrollment No- 20EE19A12003, Supervisor- Dr. Santu Kr. Giri, CSIR-CMERI, Received the **“Best Paper Award”** for presenting the paper entitled “A Non-Isolated Multiport Converter with Wide Input Voltage Range to Enhance Ultracapacitor Utilization for Electrified Vehicles” in the prestigious 11th IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2024), held at National Institute of Technology Karnataka (NITK), Surathkal from 18<sup>th</sup> to 21<sup>st</sup> December, 2024.

**SANJUKTA ZAMINDAR**

Enrollment No. 10CC22J12005, Supervisor: Dr. Priyabrata Banerjee, CSIR-CMERI, Received the **Best Poster Award** in the First International Conference on Sustainable Technologies (ICST) 2024 organized by Microsystem Design-Integration Lab, Bidhan Chandra College in December 12-15, 2024.

**SUMAN CHOWDHURY**

Enrollment No. 32EE21A12003, Supervisor: Dr. Rajesh P. Barnwal, CSIR-CMERI, Selected for **ACM India Anveshan Setu Fellowship** by the ACM India Council on Feb 25, 2024. He will be visiting Prof. Prerana Mukherjee at Jawaharlal Nehru University under the fellowship in March 2025.  
 He was awarded with travel grant to present his paper "Real-Time Vision-based Scene Classification for Adaptive Behavior in Autonomous Mobile Robots," at the 8<sup>th</sup> Joint International Conference on Data Science and Management of Data (12th ACM IKDD CODS and 30<sup>th</sup> COMAD) (CODS-COMAD Dec '24) held in IIT Jodhpur, Rajasthan, India from December 18–21, 2024.

**V. MUKESH VASHAN**

Enrollment No. 20EE23A14006, Supervisor: Dr. Rejeev Goel, CSIR-CRRI, received appreciation certificate for technical presentation under Hindi Pakhwada Program held from 01.09. 2024 to 14.09. 2024 awarded by Prof. Manoranjan Parida Director CSIR-CRRI.  
 Received the **2<sup>nd</sup> prize in the Debate competition** at “Singularity – AcSIR Science Festival held in September 20, 2024.

**SRIKANTH RENIKUNTA**

Enrollment No. 10BB21J04003, Supervisor: Dr. Ch. Ravi Sekhar, CSIR-CRRI, completed AICTE Training and learning (ATAL) Academy faculty development program on Advancements in sustainable energy management and environmental protection at Maulana Azad National Urdu University, Polytechnic Hyderabad

**PARTHA PRATIM MONDAL**

Enrollment No. 10CC24J16010, Supervisor: Dr. Subhadip Neogi, CSIR-CSMCRI. Received **Wiley Best Poster Award** at the Fundamental and Advance Research in Chemistry at IIT-Mandi in June 6 – 8, 2024. Received **Best Poster Award** at the International Conference on Materials and Membranes for Water and Energy at CSIR-CSMCRI in July 11 – 12, 2024.

**NILANJAN SEAL**

Enrollment No. 10CC18A16005, Supervisor: Dr. Subhadip Neogi, CSIR-CSMCRI. Received **JSPS Post-doctoral Fellowship (FY 2024-2025 Program)**

**ASHISH MAURYA**

Enrollment No. 10CC22J16010, Supervisor: Dr. Shilpi Kushwaha, CSIR-CSMCRI, Participation in 16th HOPE Meeting to be organized by Japan Society for the Promotion of Science (JSPS) in Yokohama, Japan during March, 2025.

**RUPA BARGAKSHATRIYA**

Enrollment no.: 10CC24J16014, Supervisor: Sumit Kumar Pramanik, CSIR-CSMCRI. Received **RSC's best poster prize** in the Chemical Reaction Engineering Symposium organized by CSIR-National Chemical Laboratory, Pune on 5-7 December 2024.

**MEENA CHOUDHARY**

Enrollment No. 10BB22J16003, Supervisor: Dr. Sanak Ray, CSIR-CSMCRI, Received the **NESA Junior Scientist of The Year Award – 2024**, in the International Conference on Advancement in Basic Science, Environmental Studie, and Traditional Medicine for Translation Drug Discovery and Development (TMT3D-2024) organized by National Environmental Science Academy (NESA), New Delhi and Banaras Hindu University (BHU) in November 21-23, 2024.

**MAHESHWARI J. BEHERE**

Enrollment No. 10BB20A16007, Supervisor Dr. Soumya Halder, CSIR-CSMCRI, Bhavnagar received **Gandhian Young Technological Innovation Appreciation Award-2023** at India International Centre, New Delhi on 5<sup>th</sup> Nov 2024

**RAJVEER KAUR**

Enrollment No. 10PP21A15008, Supervisor: Dr. Raj Kumar, CSIR-CSIO, Received the **Best Paper Award** at OPTOIn 2024 International Conference on Advances in Optics and Photonics Instrumentation held from October 23–25, 2024. I presented a poster on “Holographic waveguide based head mounted display with color coded alerts”. Award is received by OSI members.

**RIZUL GAUTAM**

Enrollment No. 20EE19A15002, Supervisor: Dr. Sanjeev Soni, CSIR-CSIO, Received the **SERB Grant** for attending IEEE International Conference on Nanomaterials: Applications & Properties at Riga, Latvia for Oral Presentation between September 8-13, 2024. Selected for the **prestigious International Internship in Pilot Programme (IIPP) program** in Taiwan, conducted by the National Science and Technology Council (NSTC) from 1st December, 2024 – 28th February 2025. Won the **travel grant funding from Ras Al Khaimah Center** for Advanced Materials (RAK CAM) to present research work in IWAM-2025 from February 17-19th, 2025.

**SACHIN GOYAL**

Enrollment No. 10PC20A15019. Supervisor: Dr. Amit L Sharma & Dr. Kamlesh Kumar, CSIR-CSIO, Awarded the **best Poster Presentation award** at Young Scientists Conclave (India International Science Festival 2024 (IISF 2024) on 30 Nov-3 December 2024, held in IIT Guwahati, Assam.

**AKANKSHA ARUN**

Enrolment no. 10BB19J02005, Supervisor: Dr. Lipi Thukral, CSIR-IGIB. Received **Third Prize in Poster Presentation** at international conference titled "Intracellular Quality and Metabolic Control from E. coli to Homo sapiens" at MIRM-MAHE, Bangalore, from 27<sup>th</sup> to 29<sup>th</sup> August 2024".

**MANISH CHOWDHARY**

Enrollment No. 10BB19A02020, Supervisor: Dr. Archana Singh, CSIR-IGIB, presented poster at "EMBO-The DNA Damage response in cell physiology and diseases", held at Sounio, Greece from 14-18<sup>th</sup> October, 2024.

**JYOTI SONI**

Enrollment No. 10BB22A02011, Supervisor: Dr. Rajesh Pandey, CSIR-IGIB, attended NEA - ASIA PGI TRAINING WORKSHOP TITLED "MULTI-PATHOGEN GENOMICS IN WASTEWATER SURVEILLANCE at Duke-NUS Medical School, Singapore in October 7 –11, 2024.

**AMIT KUMAR**

Enrollment No. 10BB20A33002, Supervisor: Dr. Damanpreet Singh, CSIR-IHBT, has participated in the largest Neuroscience conference (Neuroscience 2024) in Chicago, USA organized by Society for Neuroscience (SfN) scheduled on 5<sup>th</sup>-9<sup>th</sup> October, 2024 and presented his PhD work on epilepsy. Funded by Anusandhan National Research Foundation (ANRF) Science and engineering research board (SERB), International Travel Support (ITS) Scheme New Delhi.

**RAJNEESH KUMAR**

Enrollment No. 10BB20J33042

Supervisor: Dr. Damanpreet Singh, CSIR-IHBT, INDIA, has participated in International Conference on "Advancing Pharmaceutical and Health Sciences: Merging Innovation, Research, and Academia" (APHS: MIRA) at School of Pharmaceutical and Health Sciences, Career Point University, Hamirpur, Himachal Pradesh in collaboration with APTI (Association of Pharmaceutical Teachers of India) from 20<sup>th</sup>- 21<sup>st</sup> November 2024. He secured 1st Prize in the poster presentation entitled as "A Native Weed Extract as an Intervention for the Management of Aluminium-induced Neurotoxicity"

**DIKSHA MANHAS**

Enrollment No. 10BB19A37018, Supervisor: Dr. Utpal Nandi, CSIR-IIIM, Received **Young Researcher Award 2024** at the 5th Science Conclave-cum-National Biomedical Research Competition (NBRCOM), 2024 at AIIMS New Delhi in December 1 – 3, 2024.

**URVASHI DHIMAN**

Enrollment No. 10BB22A37016, Supervisor: Dr. Prasoon Kumar Gupta, CSIR-IIIM, Received the **Best Young Scientist Award** for Outstanding research in the field of Biological Sciences during 8<sup>th</sup> Annual Meeting of IAZ & 5<sup>th</sup> International Conference on Recent Trends in Life Sciences and Biotechnology (12<sup>th</sup> - 14<sup>th</sup> December 2024) at Maharishi Markandeshwar University, Mullana-Ambala (Haryana), India.

**ANU RADHA**

Enrollment No. 10BB22J37022, Supervisor: Dr. Vinod Kumar, CSIR-IIIM, Received the **Poster Prize** (ROP 166/2940) from the American Chemical Society (ACS) at the "Innovations in Biotechnology for Sustainability" (IBS-2024) conference held at JNU, New Delhi, India, between November 23-25, 2024

**NARGIS AYOUB**

Enrolment No. 10BB23A37032, Supervisor: Dr. Vikash Babu, CSIR IIIM, **Received RSC Advances Poster Prize Award** at the International Conference on Innovation in Biotechnology for Sustainability at Jawaharlal Nehru University New Delhi in November 23-25, 2024.

**PRITAM DAS**

Enrolment No. 10BB21A18012, Supervisor: Dr. Rajkumar Banerjee, CSIR-IICT awarded with the **ACS Chemical Biology Best Poster award** in the International conference on 'Current Trends in Drug Discovery and advances in Diagnostics: Chemical Biology approaches' organized as 11th Annual Chemical Biology Society, India Meeting held at Adichunchanagiri University, B.G. Nagara, Mandya, Karnataka, held from 2-3 August 2024.

**SRIMUKHI MANDAVA**

Enrolment No. 20EE23A18001, Supervisor: Dr. Vineet Aniya, Senior Scientist, CEPT Division, CSIR-IICT has won the **best paper presentation award** entitled "Enhancing Menstrual Hygiene Products: Nanocellulose-Doped Superabsorbent Polymer for Improved Absorption and Structural Stability" at the 2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT-2024) held during 13-14 December 2024 at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India.

**POONAM KUMARI**

Enrolment No. 10BB21A18011, Supervisor: Dr. S. Venkata Mohan, CSIR-IICT from the Department of Energy and Environmental Engineering, has received the **1<sup>st</sup> Prize for Best Oral Presentation Award** for the work titled: "Pigment Profiling in Coelestrella sp. Under Light and Salinity Stress Conditions and Evaluation of their Antioxidant Potential" at the 2nd International Symposium on Advances in Algal Research, held on December 17th-18th, 2024, jointly hosted by IIT Guwahati and JNTUH.

**YAMINI JAVVADI**

Enrolment No. 10BB22J18004, Supervisor: Dr. S. Venkata Mohan, CSIR-IICT from the Department of Energy and Environmental Engineering, has received the **1<sup>st</sup> Prize for Best Paper Award** for "Urbanization Influence on Antibiotic Resistance Dynamics in Aquatic Environments" at the 2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT 2024), organized by CBIT, Hyderabad, on 13th–14th December 2024.

**ANKITA BORUAH**

Enrolment No. 10CC23A18006, Supervisor: Dr. John Mondal, CSIR-IICT had bagged **1st Runner up of the Best Paper Award** at the International Conference on Carbon Capture & Utilization (ICCCU)-2024, organized by JNCASR-Bengaluru on December 09-13, 2024.

**ATHMAKURI THARAKA RAMULU**

Enrolment No. 10BB21A18002, Supervisor: Dr. S. Venkata Mohan, CSIR-IICT has been honored with the prestigious **AU-CBT Excellence Award** for the year 2023, presented by The Biotech Research Society, India (BRSI), recognizes his outstanding contributions to biotech. R&D. The award ceremony took place at Dr. D. Y. Patil Vidyapeeth (DPU), Pune, on November 26, 2024.

**BANAVATH SURESH**

Enrolment No. 10BB24A18004, Supervisor: Dr. S. Venkata Mohan, CSIR-IICT from the Department of Energy and Environmental Engineering has received the **Best Oral Presentation Award** on the topics "Iron stress-induced modulation of photosystem complexes in Coelastrella sp. SVMIICT5 " at international conference on innovations in biotechnology for sustainability (IBS), held at JNU, New Delhi on 25th November 2024.

**RATUL PAUL**

Enrolment No. 10CC20J18036, Supervisor: Dr. John Mondal, CSIR-IICT has been awarded the "**AcSIR Best Thesis Award** for the year 2023" under Faculty of Chemical Sciences.

**N. BHADRACHALAM**

Enrolment No. 10BB20J18056, Supervisor: Dr. S. Sridhar, CSIR-IICT have received the **Best Oral Presentation Award** on the topics 'Ultra-purification of Tetraethylorthosilicate to Semiconductor Grade by Integrated Advanced Separation Processes' and 'Efficacy of Anti-microbial and Anti-viral Affordable Air – Purifiers to Prevent the Spread of Airborne Pathogens' respectively at the Membrane Processes for a Green Environment: Current Status, Challenges and Future Prospects international conference, held at JNTU-Anantapuramu during 16-18 October, 2024.

**TARUN NALLAMILLI**

Enrolment No. 10CC21J18023, Supervisor: Dr. Rambabu Chegondi, CSIR-IICT have received the **Best Oral Presentation Award** on the topic, "Base and Solvent Controlled Selective Cascade Cyclizations On Enone-Tethered Cyclohexadienones" at the 2024 XIX JUNIOR-NOST CONFERENCE FOR YOUNG RESEARCHERS, held at IIT, Gandhinagar during 7-9 October, 2024.

**VAIBHAV B. PATIL**

Enrolment No. 10CC18A18011, Supervisor: Dr. Rambabu Chegondi, CSIR-IICT for being selected to **NOST-Anthem Biosciences Best Thesis Award 2024**.

**OLIVIA DHARA**

Enrolment No. 20EE21J18003, Supervisor: Dr. Pradosh P. Chakrabarti, CSIR-IICT has been awarded the **"SHRI SOMALAL VYAS - SEA INNOVATION AWARDS 2024"** by The Solvent Extractors' Association of India in collaboration with FoodTech Pathshala.

**AJAY UPRETY**

Enrolment No. 10CC20J18004, Supervisor: Dr. Ch. Raji Reddy, CSIR-IICT has received **Best Poster Presentation Award** for the poster entitled "Organic Synthesis towards Healthcare (Pharmaceuticals)" in the Young Scientists Conclave (YSC) conducted from 30th November to 3rd of December as part of 10th India International Science Festival 2024, IIT-Guwahati

**ANIKET SINGH**

Enrollment No. 10CC23A19008, Supervisor: Dr. Asheesh Kumar, CSIR-IIP, Dehradun, Uttarakhand. Attended the National Conference on "Catalysis for Energy, Environment & Sustainability (CEES-2024)" on September 18-20, 2024, held at CSIR-IICT, Hyderabad, India. Participated in Science Club activity Lecture on "Career Guidance and Planning" by Dr. Asheesh Kumar on Nov 29, 2024, held at CSIR-IIP, Dehradun.

**MANZOOR ALI**

Enrolment No. 10BB21A02026, Supervisor: Dr. Aastha Mishra, CSIR-IGIB, Received **Best Poster Award** at the 7<sup>th</sup> international Leh Symposium, 4-7 August 2024.

**JEYASHRI RENGARAJU**

Enrollment No. 10BB20A02036, Supervisor: Dr. Vivek T Natarajan, CSIR-IGIB, presented my work as a short talk in the Non-coding RNA world 2024: Exploring mechanisms, Designing Medicines conference held at Basel, Switzerland in 7 – 9<sup>th</sup> October, 2024.

**MAHIMA**

Enrollment No. 10BB20A02039, Supervisor: Dr. Vivek Rao, CSIR-IGIB, Received **Poster prize from Royal Society of Chemistry (RSC Advances)** at International Conference on Innovations in Biotechnology for Sustainability at Jawaharlal Nehru University, New Delhi in November 23-25, 2024.

**RAJ RAJESHWAR CHOUDHURY**

Enrollment No. 10BB20A02041, Supervisor: Dr. Neeru Saini, CSIR-IGIB, Received the **Best Poster Award** in the Young Scientists Conclave which was a part of the India International Science Festival (IISF) 2024 organized by the Indian Institute of Technology Guwahati (30th November 2024 to 3rd December 2024).

**HARI SHARAN**

Enrollment No. 10BB24J33023, Supervisor: Dr. Satbeer Singh, CSIR-IHBT, won **3rd position for oral presentation of research paper** in Hindi during "राष्ट्रीय हिंदी विज्ञान सम्मेलन -2024" organized by CSIR-AMPRI, CSIR-NIScPR, Vigyan Bharti, Madhya Pradesh Bhoj (Open) University and Atal Bihari Vajpayee Hindi University in Bhopal, Madhya Pradesh from July 30 to 31, 2024.

**PRAVESH KUNDU**

Enrollment No. 10BB20A33018, Supervisor: Dr. Gaurav Zinta, CSIR-IHBT Palampur, received a **travel award from "SERB – International Travel Grant"** to deliver a Poster Presentation at "Botanik-Tagung - International Conference of the German Society for Plant Sciences" to be held from Sept 15 to Sept 19, 2024, at Martin-Luther-University Halle-Wittenberg, Halle, Germany.

**SWATI KATOCH**

Enrollment No. 10BB21J33018, Supervisor: Dr. Vikram Patial, CSIR-IHBT, Received **AcSIR-UWA Joint PhD Program (Cotutelle), 2024 scholarship**.

**ANJALI CHANDEL**

Enrollment No. 10BB22J33017, Supervisor: Dr Bhavya Bhargava, CSIR-IHBT, Received **Best Poster Award** in the National Conference on Smart Farming Solutions for Ornamental Horticulture Organized by Indian Society of Ornamental Horticulture held at Maharana Pratap Horticultural University, Karnal on 8-9 November, 2024.

**RAVI KUMAR**

Enrollment No. 10BB21J33030, Supervisor: Dr. Vishal Acharya, CSIR-IHBT, Received **Best Poster Prize** at the IPS North Zone Meet and National Symposium of Himalayan Phytopathological Society on New Vistas in Plant Pathological Research at CSKHPKV Palampur, Himachal Pradesh in November 07 – 08, 2024.

**YOG RAJ**

Enrollment No. 10BB20J33023, Supervisor: Dr. Rakesh Kumar, CSIR-IHBT, Received **Best Oral Presentation Award** in SERB-DST Sponsored National Conference on Mountain Ecosystem: A Biodiversity Focus, held at Govt. Degree College Kullu, in October 21-22, 2024.

**SURYA KANTA GHADEI**

Enrollment No. 10PP21A36005, Supervisor: Dr. Ramasamy Sakthivel, CSIR-IMMT, Received the

1. **APJ Abdul Kalam Young Research Fellowship 2023-2024** from Terre Policy Centre.
2. **Best Poster Award** in International Conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies (IEMDST-2024) organized by National Institute of Technology Warangal and National Institute of Technology Goa During July 04-05, 2024.

**YOGESH CHAUDHARY**

Enrollment No. 10PP23A36008, Supervisor: Dr. K. J. Sankaran, CSIR-IMMT, Received the

1. **“Best Paper Award”** for Hybrid diamond/graphite film as electrochemical sensor for voltammetric detection of toxic paraquat at International Conference on Composite Materials for Environment Protection Remediation (ICCMER-2024) 02–03 July, 2024, organized by Gram Bharti College, Ramgarh, Kaimur, Bihar, Under the flagship of Chemical Research Society of India, in association with Research Plateau Publishers.
2. **“Best Oral Presentation Award”** for “Hybrid diamond/graphite film as electrochemical sensor for voltammetric detection of toxic paraquat” International Conference on Next Generation Materials and Devices (ICNMD) – 2024, 01-03, August, 2024, organized by Department of Physics, Kalasalingam Academy of Research and Education, Krishnan Koil- 626126, Srivilliputtur.

**NILOTPAL KAPRI**

Enrollment No. 32EE23J36001, Supervisor: Dr. Debi Prasad Das, Dr. Santosh Kumar Behera, CSIR-IMMT. Presented a paper titled “Estimation of Cathode Position in Transferred Arc Plasma Using Electrical and Optical Signal with Kalman Filter Driven Artificial Neural Network” in Conference & Exhibition on Non-Destructive Testing & Sensors (CENDTS 2024). Conference on 29<sup>th</sup>-30<sup>th</sup> August 2024 at Jamshedpur, Jharkhand.

**MONALIN MISHRA**

Enrollment No. 10CC22A36009, Supervisor: Dr. Trupti Das, CSIR-IMMT, Received the

1. **2<sup>nd</sup> Prize in Group Discussion competition** held on 30-10-2024 on the occasion of Vigilance Awareness Week at CSIR-IMMT, Bhubaneswar.
2. **1<sup>st</sup> Prize in Oral Presentation** of 25th Odisha Bigyan ‘O’ Paribesh Congress (OBPC-2024) National Seminar on “Fostering Science for Holistic Development” held at CSIR-IMMT on 29-30th Nov 27, 2024.
3. Research visitor at Discovery Partners Institute (DPI), Chicago sponsored by the University of Illinois at Urbana Champaign, Chicago, Illinois, USA for 2 months (September-October 2024)

**NIKITA PRATIHARY**

Enrollment No. 10CC19A36030, Supervisor: Dr. R. Boopathy, CSIR-IMMT, Received the **3rd Prize in Oral Presentation** of 25th Odisha Bigyan ‘O’ Paribesh Congress (OBPC-2024) National Seminar on “Fostering Science for Holistic Development” held at CSIR-IMMT on 29-30th November 27, 2024.

**DINESH KUMAR PANDA**

Enrollment No. 10BB21A36005, Supervisor: Dr. N. K. Dhal, CSIR-IMMT, Received the **NESA JUNIOR SCIENTIST OF THE YEAR AWARD-2024** in the Annual Seminar of NESA, at BHU, Varanasi. (TMT3D-2024, 21-23 Nov).

**SUKANTA KUMAR MAHANTA**

Enrollment No. 10CC22A36007, Supervisor: Dr. U. Balaji, CSIR-IMMT, Received the **Best Poster Presentation Awards** in the International Bauxite Alumina and Aluminum Conference and Exhibition- IIM at BITS Pilani, Goa Campus, on the title "Evaluation of recovered SP2 Graphite as a Potential Anode Material in Li-ion Batteries."

**SATYASISH ROUT**

Enrollment No. 20EE19A36005, Supervisor: Dr. C. Eswaraiah, CSIR-IMMT, Received the **Best Oral Presentation** during the Technical Session of Metallurgical Engineering Session on the occasion of 39th National Convention of Chemical Engineers & National Seminar on "R&D activities in Minerals, Chemical and Metallurgical Industries for Today's Society organized by The Institution of Engineers (India), Odisha State Centre Bhubaneswar on 9-10th November, 2024.

**N USHA KIRAN**

Enrollment No. 10CC19A36032, Supervisor: Dr. Laxmidhar Besra, CSIR-IMMT, **Reseapro Labs Pvt. Ltd.**, the deep-tech startup Co-founded by me which is now incubated at InTEC, CSIR-IMMT Bhubaneswar, has been honored with the prestigious 2024 IIM Materials Technology Start-Up Award by Shri Sajjan Jindal, President of the Indian Institute of Metals (IIM) and Chairman of JSW Group, during the 78<sup>th</sup> Annual Technical Meeting (ATM) 2024 of IIM, held from November 20<sup>th</sup> to 22<sup>nd</sup>, 2024, at Gandhi Krishi Vigyan Kendra (GKVK), University of Agricultural Sciences, Bengaluru.

**KSHITIZ WALIA**

Enrollment No. 10BB20J20009, Supervisor: Dr. Amit Tuli, CSIR-IMTECH, Chandigarh, received a **travel award** from the Anusandhan National Research Foundation (ANRF) for presenting my research work at "CellBio24, an ASCB-EMBO meeting" held from 14th December – 18th December, 2024 in San Diego, California (USA). I also received a DMM Company of Biologists grant for attending the conference.

**SHWETA PANDEY**

Enrollment No. 10BB21A20004, Supervisor: Dr. Anshu Bhardwaj, CSIR-IMTECH, received the **JXTX + GCC 2024 scholarship** to attend Galaxy Community Conference 2024 (GCC2024) from June 24-29, 2024 in Brno, Czech Republic. **3<sup>rd</sup> position in the BioQuiz** at the Genomics India Conference 2024, held from February 1–3, 2024, at the Shiv Nadar Institution of Eminence in Delhi NCR.

**NISHA MAHEY**

Enrollment No. 10BB18A20006, PhD Supervisor Dr Hemraj Nandanwar, CSIR-IMTECH, won the **AcSIR's Best Ph.D. Thesis award 2023** in Biological Sciences "Exploration and evaluation of novel multidrug resistance inhibitors to target ESKAPE pathogens"

**ABHISHEK T. BHAT**

Enrollment No. 10BB21J25052, Supervisor: Dr. Tikam Singh Rana, Co-Supervisor: Dr. K.M. Prabhukumar, CSIR-NBRI, Received **S.M. and M.R. Almeida Award in Plant Nomenclature** at the 34th Annual Conference of the Indian Association for Angiosperm Taxonomy (IAAT) and International Seminar on "Botanical Symphony–Perspectives and Current Challenges in Angiosperm Systematics" (BSPCCAS 2024) at Assam University, Silchar, in November 23 –25, 2024.

**NIRANJANA PREM M.P**

Enrollment No. 10BB22J25019, Supervisor: Dr. S Vijay Anand Raj, CSIR- NBRI, Received the **Best Oral Presentation Award** in the conference: "Advances in Innovative Technologies and Plant Health Management Strategies in Climate Resilient Agriculture (AITPRA)" September 26-27, 2024 held at College of Agriculture, Tripura (CAT), Agartala.

**SWATI BHURIA**

Enrollment No.10BB20A25002, Supervisor: Dr. Yogita Maheshwari; Co Supervisor: Dr. S Vijay Anand Raj, CSIR- NBRI, Received **Best Oral Presentation Award** in the conference: "Advances in Innovative Technologies and Plant Health Management Strategies in Climate Resilient Agriculture (AITPRA)" September 26-27, 2024 held at College of Agriculture, Tripura (CAT), Agartala.

**ANUPMA DEVI**

Enrollment no 10BB23A25037 Supervisor: Gaurav K. Mishra CSIR-NBRI and Co-Supervisor Dr. Manjoosha Srivastava CSIR-NBRI, Received the **Ajay Singh Best poster award** at the “Advances and Prospectives in Cryptogam Research”, 9-11 December 2024 Organized by Indian Lichenological Society and CSIR-NBRI Lucknow.

**PRIYA VERMA**

Enrollment No. 10BB21J25003, Supervisor: Dr. Aradhana Mishra, CSIR-NBRI, Received the **Best Poster Presentation Award** at India International Science Festival (IISF)-2024, held at IIT-Guwahati, Assam, 30 Nov-03 Dec 2024.

**POOJA MAURYA**

Enrollment no. 10BB21A25012, supervisor: Dr. Gaurav K. Mishra, CSIR-NBRI received **3<sup>rd</sup> prize in “Hindi Gyan Pratiyogita”** organized on the occasion of ‘Hindi Pakhwada’ on September 15-30, 2024 at CSIR-NBRI Lucknow.

**PRASANNA DUTTA**

Enrolment No.10BB18A25013, Supervisor: Dr. Debasis Chakrabarty, CSIR-NBRI, awarded the **Best Presentation in Poster session** at CRSI-ACS Early Career Researchers’ Symposium 2024 held on 22nd & 23rd October 2024, Campus 11, KIIT DU, Bhubaneswar, Odissa.

**SRI VIDYA CHERUKUTHOTA**

Enrollment No: 10CC20A26083, Supervisor: Dr. Kaliaperumal Selvaraj, CSIR – NCL, Won **Best Poster Award** for a poster entitled "Sustainable and selective electrochemical synthesis of 1-tetralone on the two-dimensional non-metal surface using water" at the INTERNATIONAL CONFERENCE ON MATERIALS AND MEMBRANES FOR WATER AND ENERGY (ICMMWE-2024) organised by CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat, held during 10th-13th July 2024.

**SARIKA BIRAJDAR**

Enrollment No: 10CC22J26028, Supervisor: Dr. K Krishnamoorthy, CSIR – NCL, has been awarded **Best Paper Award** in the ‘3rd International Conference on Sustainable Materials and Technologies for Bio and Energy Applications (SMTBEA- 2024) held during July 1-3, 2024 at SSN Research Center, SSN Institutions, Chennai. The paper's title was “Polysulfide Chemisorption On Pyridine Nitrogens of Conjugated Small Molecules and its impact on Li-delta Battery Performance”

Many congratulations to Sarika Birajdar and Co-authors, on behalf of whole CSIR-NCL family.

**RADHAKISAN KARGUDE**

Enrollment No: 10CC19J26011, Supervisor: Dr. K Krishnamoorthy, CSIR – NCL, has been awarded **Best Paper Award** in the ‘3rd International Conference on Sustainable Materials and Technologies for Bio and Energy Applications (SMTBEA- 2024) held during July 1-3, 2024 at SSN Research Center, SSN Institutions, Chennai.

**NITIN M THORAT**

Enrollment No: 20EE17A26041, Supervisor: Dr. Ulhas Kharul and Dr. Ashish Lele CSIR – NCL, **Best Oral Presentation Award** in the ‘International Conference on Materials and Membranes for Water and Energy (ICMMWE- 2024) held during July 10-12, 2024 at CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar

**ATHIRA S BABU**

Enrollment No: 10CC21A26027, Supervisor: Dr. Sreekumar Kurungot, CSIR – NCL, received a **Best Poster Award** under the theme "Energy Conversion and Storage" by Energy Advances, RSC in the ‘International Conference on Energy and Environmental Materials (E2M-2024)’ organized by IIT, Indore during 11-13 July 2024.

**YOGESH KUMAR**

Enrollment No. 10CC21A26018, Supervisor: Kurungot Sreekumar, CSIR-NCL, Received a **Best Poster Award** under the theme "Environmental Monitoring & Remediation" by Energy Advances, RSC in the ‘International Conference on Energy and Environmental Materials (ICE2M-2024)’ organized by IIT, Indore during 11-13 July 2024.

**NIKHIL SAMUDRE**

Enrollment No. 10PP21A26002, Supervisor: Dr. Sailaja Krishnamurty, CSIR-NCL has received a **Best Poster Award** under the theme of "Sustainable Catalysis" at the International Conference on 'Sustainable catalysis: Synthesis, Theory and Application' (SusCat-STA2024) organized by Ashoka University during 22-26 July 2024.

**SEERAT AMIN LONE**

Enrollment No. 10CC23A26030, Supervisor: Dr. Sailaja Krishnamurty, CSIR-NCL has received a **Best Poster Award** on 'Sustainable catalysis: Synthesis, Theory and Application' (SusCat-STA2024) organized by Ashoka University at the International Conference during 22-26 July 2024.

**SHAHAJI PALASKAR**

Supervisor Name: Dr. V. Koteswara Rao, CSIR-NCL has been awarded with the **2nd Best Poster Award** at the International Conference on "Role of Fungi in Sustainable Development - From Exploration to Application" held during 23-25 October, 2024 at Savitribai Phule Pune University, Pune.

**AKHIL PATHANIA**

Enrollment No: 10CC23J26001, Supervisor: Dr. Sayan Bagchihas CSIR-NCL been awarded the **Best Poster Prize** at the Fluorescence Correlation Spectroscopy XV (FCS XV) & International Conference on Optics Within Life Sciences (OWLS 17), held from 16th to 21st November 2024 at IIT Bombay, organized by the Fluorescence Society of India.

**SREEJITH S**

Enrollment No. 10CC22J26023, Supervisor: Dr. M. Banu, CSIR-NCL has been awarded the "ACS Sustainable Resource Management: **BEST ORAL PRESENTATION AWARD**" at the 23rd Prof. K V Thomas Endowment Seminar on "Frontiers in Materials Science," held during 27-28 November 2024 at Sacred Heart College (Autonomous), Thevara, Kochi, Kerala

**AMEYA PAWAR**

Enrollment No. 10CC22J26023, Supervisor: Dr. Mahesh Dharne, CSIR-NCL won the **Best Poster Award** at the 47<sup>th</sup> Annual Congress of the Indian Association of Medical Microbiologists, organized by the Department of Microbiology, BJ Government Medical College, Pune, from 21st to 24th November 2024. The award includes a certificate. The poster was titled: "A Novel Bacteriophage from the Ganges River for Escherichia coli Biofilm Control in One Health."

**JAYRAM GORE**

Enrollment No: 20EE19J26001, Supervisor: Dr. Nilesh A Mali CSIR-NCL  
A poster from Reaction Chemistry and Engineering presented at the Chemical Reaction Engineering Symposium held during 5- 7 December, 2024 at CSIR-NCL, Pune, has been awarded a **Best Poster Prize**. The poster was titled "Simulated Moving Bed Reactor for the Synthesis of 2-Ethoxyethyl Acetate: Experiments and Simulations."

**PARTH SHALIGRAM**

Enrollment No. 10CC23A26019, Supervisor: Dr. Rajesh Gonnade, CSIR-NCL at the 51st National Seminar on Crystallography (NSC 51) held during 27-29 November 2024 at Visvesvaraya National Institute of Technology (VNIT), Nagpur, has been awarded the Prof. Venkatesan **Best Poster Prize**. The poster was titled "A Novel Solid Formulation of Rivaroxaban Eutectic using a Hot Melt Extruder with Improved Thermal Stability and Dissolution Profile."

**GANESH DEV PADHI**

Enrollment No: 10CC25J26004, Supervisor: Dr. Nagaraju Barsu, CSIR-NCL, won the **Best Poster Prize** at the 7<sup>th</sup> International Symposium on C–H Activation held during 6-9 Dec 2024 at IIT Bombay, Mumbai.

**ANOUSHKA DAS**

Enrollment No: 10PP20A26009, Supervisor: Dr. Manjusha V. Shelke, CSIR-NCL, The Poster presented at the International Conference on Advanced Energy Materials and Interfaces-2024 (AEMI-2024) held during December 9-11, 2024, at IISER Pune, has been awarded the **Best Poster Prize**. The poster was titled "Synergistic Effect of Zinc Metal Phosphide Bifunctional Catalyst to Enhance Redox Reactions in Lithium Sulfur Batteries."

**BAGWAN FARAHANAZ M**

Enrollment No: 20EE20A26017, Supervisor: Dr. Satyam Naidu Vasireddy, CSIR-NCL, poster presented at the International Conference on Carbon Capture and Utilization-24 (ICCCU24) held during December 9-13, 2024, at JNCASR Bangalore, has been awarded the **Best Poster Prize**. The poster was titled "Experimental studies for direct conversion of carbon dioxide to methanol."

**POOJA**

Enrollment No: 10CC21A26008, Supervisor: Dr. C. P. Vinod, CSIR-NCL, A poster presented at the International Conference on Carbon Capture and Utilization-24 (ICCCU-24) held during December 9-13, 2024, at JNCASR Bangalore, has been awarded the **Best Poster Prize**.

The poster was titled "Pd-Loaded Layered Double Hydroxides as Efficient Catalysts for CO<sub>2</sub> Hydrogenation to Formic Acid: A Focus on Surface Hydroxyls."

**TWINKLE GORAI**

Enrollment No: 10CC22J26003, Supervisor: Dr. C. P. Vinod, CSIR-NCL, A poster presented at the Conference on Advances in Chemistry for Energy and Environment (CACEE 2024) held during December 16-20, 2024, at TIFR, Mumbai, has been awarded the **Best Poster Prize**.

The poster was titled: "Utilization of CO<sub>2</sub> towards styrene carbonate and its application as a protective coating of a durable aqueous Zn-ion battery."

**ANJALI P**

Enrollment No.: 10BB23J27001, Supervisor: Dr. Asifa Qureshi, CSIR-NEERI, Nagpur.

Received **Dr. A.P.J. Abdul Kalam Young Research Fellowship Award 2023-2024** organized by TERRE Policy Centre on 26th July 2024.

**PRADIP SAHEBRAO JADHAO**

Enrollment No. 10CC18J27014, Supervisor: Dr. A. Ramesh Kumar, CSIR-NEERI, Received the **2<sup>nd</sup> Price in Oral Presentation Award** in the conference on 1st International Conference on Recent Trends & Advances in Water Science, Remote Sensing and Climate Change (WSRSCC-2024) held at Indian Institute of Technology Jammu (IIT Jammu) during 11th to 13th December 2024.

**RADHIKA SOOD**

Enrollment No. 10BB22J27002 Supervisor: Dr. Shalini Dhyani, CSIR-NEERI, Date: 2<sup>nd</sup> September, 2024 to 30<sup>th</sup> November, 2024 received **travel and accommodation** funding from Karlsruhe Institute of Technology, Germany for Ph.D. Collaboration visit under Award No. FE.5160.0152.0012.

**DEBASHREE BORA**

Enrollment No. 10CC18A38003, CSIR-NEIST, Conference Attended along with date: Received **Best Poster Award** at International conference on "Emerging Trends in Organometallics and Catalysis (ETOMC-2024)" at IISER Kolkata from 12th-13th July'2024

**SOHELKHAN PATHAN**

Enrollment No. 10PP24J28008, Supervisor: Dr. Tanvi Arora, CSIR-NGRI, Received **ETH4D Doctoral Mentorship Scholarship** from ETH Zurich, Switzerland. This scholarship includes mentorship from an ETH faculty member for one year, a three-month stay at a mentor research group in ETH, presently in ETH Zurich from Sep 2024 to Dec 2024 for pursuing research work related to his doctoral thesis.

**PELLURI LATHA SRI**

Enrollment No. 10PP21J28024, Supervisor: Dr. N Satyavani (Senior Principal Scientist) CSIR-NGRI, Received **SEG/SLS (Student Leadership Symposium) Award** to attend the International Meeting for Applied Geoscience and Energy (IMAGE) convention 2024 August held at Houston, Texas, USA.

**PASAGADGU SION KUMARI**

Enrollment No. 10PP19A28024, Supervisor: Dr. Sandeep Kumar Gupta, CSIR – NGRI, Received **IGC Geo Host grant** as my research abstract has been selected for the oral presentation at 37th International Geological Congress conference (IGC), Busan, Republic of Korea held during 25 – 31 August, 2024.

**SUSHREE SANGITA PAL**

Enrollment No. 10PP19A28033 (AcSIR), Supervisor: Dr. Bulusu Sreenivas, CSIR – NGRI, Received **IGC Geo Host grant** as my research abstract has been selected for the poster presentation at 37<sup>th</sup> International Geological Congress conference (IGC), Busan, Republic of Korea held during 25 – 31 August, 2024

**ATHUL P**

Enrollment No. 10PP21J28012, Supervisor: Dr. Himangshu Paul, CSIR-NGRI  
Selected for attending a **fully-funded International Training Course** on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation, organized by the German Research Centre for Geosciences (GFZ), Potsdam, Germany, from 6<sup>th</sup> to 26<sup>th</sup> November 2024.

**SATEESH CHANDRAPURI**

Enrollment No. 10PP20J28006, Supervisor: Dr. N.C. Mondal, CSIR-NGRI, Hyderabad, Received the **Best Presentation Award** at the International Conference on “Water & Agricultural Sustainability under Changing Climate” on October 7-9, 2024 at Tamil Nadu Agricultural University, Coimbatore.

**YEZARLA MAHESH**

Enrollment No. 10PP21J28008, Supervisor: Dr. Sandeep Kumar Gupta & Co-supervisor: Dr. Rajesh Rekapalli, CSIR-NGRI, Hyderabad, Received the **Best Oral Presentation Award** in the Young Researchers Program at the Convention of the Indian Geophysical Union, held at BHU, Varanasi, from December 3–5, 2024.

**ASHITHA GEORGE**

Enrollment No. 10PP19A39030, Supervisor: Dr. E. Bhoje Gowd/ Dr. K. P. Surendran (Co-guide), CSIR-NIIST, Received **Best Oral Presentation Award** at the National Thematic Conclave on "Specialty Chemicals and Sustainable Packaging", CSIR-NIIST, July 19, 2024

**SANGEETHA U K**

Enrollment No. 10CC22J39001, Supervisor: Dr. Sushanta Kumar Sahoo, CSIR-NIIST, Received **Best Oral Presentation Award** in the Research Scholars Symposium as a part of the National Thematic Conclave on “Specialty Chemicals and Sustainable packaging” organized by CSIR NIIST on 19<sup>th</sup> July 2024.

**ANJANA E I**

Enrollment No.: 10CC22A39007, Supervisor: Dr. Jayashankar K./ Dr. Prathish K P (Co-guide), CSIR-NIIST, Received **First prize in Poster presentation** on the topic entitled "Recycling of Lithium-Ion batteries: Methods for extracting Lithium and Cobalt from black mass" at the International Conference on Science, Technology, and Applications of RARE EARTHS (ICSTAR-2024) August 21-23 at Trivandrum.

**ANOOJA J.**

Enrollment No.: 10PP17A39032, Supervisor: Dr. Suraj Soman / Dr. Narayanan Unni K. N. (Co-guide), CSIR-NIIST, Thiruvananthapuram, Received the **2nd prize in Oral Presentation** at International Conference on Emerging Advanced Materials (ICEAM-2024), organized by Centre for Nanoscience and Technology, Anna University, Chennai.

**SIMI ACHANKUNJU**

Enrollment No. 10CC23A39002, Supervisor: Dr. Ishita Neogi, CSIR-NIIST, **Visited University of Augsburg, Germany** as a part of DST-DAAD project during August 19- to September – 03, 2024.

**SHIBNA BALAKRISHNAN**

Enrollment No.10CC17A39003, Supervisor: Dr. Joshy Joseph, CSIR-NIIST, Thiruvananthapuram, Selected as Post-Doctoral Fellow at Georgia Institute of Technology, Atlanta, USA.

**SANGEETHA MOHAN**

Enrollment No. 10CC19J39004, Supervisor: Dr. Sasidhar B. S., CSIR-NIIST, Received the **Prof. Dr. A. Hisham Endowment Award in Phytochemistry-2024 for significant contributions to the natural products chemistry**. The award ceremony was held at the International Conference on Advancements and Innovations in Phytochemistry, Nutraceuticals and Functional Foods 2024 organized by the Kerala Academy of Sciences on November 11 – 12, 2024.

**AKHILA N S**

Enrollment No. 10CC21A39006, Supervisor: Dr. E BHOJE GOWD, CSIR-NIIST, Received the **RSC Material Advances Best Poster Award** at the **15<sup>th</sup> International IUPAC Conference on Polymer-Solvent Complexes and Intercalates (Polysolvat-15)**, at Indian Association for the Cultivation of Science (IACS), Kolkata, from December 2-4, 2024.

**MUMTHAZ SALIM**

Enrollment No. 10CC22A39002, Supervisor: Dr. E BHOJE GOWD, CSIR-NIIST, Received the **Best Poster Award** at the **15<sup>th</sup> International IUPAC Conference on Polymer-Solvent Complexes and Intercalates (Polysolvat-15)**, at Indian Association for the Cultivation of Science (IACS), Kolkata, from Dec 2-4, 2024.

**RIYA MARTIN**

Enrollment No.: 10CC22A39008. Supervisor: Dr. Vijayakumar C., CSIR-NIIST, Received the **Best Paper Presentation Award** at the **Neoteric Advances in Chemical Sciences (NACS 2024)**, held at the Department of Chemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram on November 7–8, 2024.

**RAVEENA NATAKKAKATH KALIYATHAN**

Enrollment No. 10BB18A39036, Supervisor: Dr. Reshma M V, CSIR-NIIST, Received **Best Paper presentation award** in SCIENTIA-2, Multidisciplinary international conference and research expo 2024 organized by Scholars connect, research forum of Christ College, Irinjalakuda, Kerala from 5-7, November 2024. Received the **Best paper presentation award** in international conference on advancements and innovations in phytochemistry, nutraceuticals, and functional foods organized by Kerala Academy of Sciences (KAS), Thiruvananthapuram, and Mar Athanasios College for Advanced Studies Tiruvalla (MACFAST) held at MACFAST, Tiruvalla, Kerala from 11-12, November 2024.

**DEVIKRISHNA K. S.**

Enrollment No. 10CC21J39008, Supervisor: Dr. K I Suresh, CSIR-NIIST, Received the **Best Oral Presentation Award** in the conference on 'Frontiers in Material Science', 23rd Prof. K V. Thomas Endowment National Seminar organized by Sacred Heart College (Autonomous), Thevara, Kochi, Kerala, India on November 27-28, 2024.

**ARUNKUMAR S.**

Enrollment No. 20EE20J39023, Supervisor: Dr. Srinivasan A., CSIR-NIIST. He selected for the **post of Scientist** at Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Nagpur under the Ministry of Mines. Division: Materials Science & Technology Division (MSTD), Year :2024

**SREEDEVI T. E.**

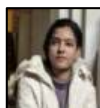
Enrollment No. 10CC22A39012, Supervisor: Dr. Jayasankar K. CSIR-NIIST. She **selected for the post of Junior Scientist** at Jawaharlal Nehru Aluminum Research Development and Design Centre (JNARDDC), Nagpur under the Ministry of Mines. Division: Materials Science & Technology Division , Year: 2024

**ANDREW SIMON GEORGE**

Enrollment No. 10PP22A39002, Supervisor: Dr. Suraj Soman, CSIR-NIIST, Received the **"Young Scientist Award at the 31st Swadeshi Science Congress 2024"**, held at ICAR-CIFT, Kochi. Division: Centre for Sustainable Energy Technologies (C-Set), Year: 2024

**ASHITHA GEORGE**

Enrollment No. 10PP19A39030, Supervisor: Dr. E. BHOJE GOWD, CSIR-NIIST, Received **NIMS Internship Program** for two months at **National Institute for Materials Science (NIMS), Tsukuba, Japan**, from September 2 – November 1, 2024.

**AVIJA A. V.**

Enrollment No. 10CC20A39012, Supervisor Name: Dr. Vijayakumar C., CSIR-NIIST. Received the **SERB-Overseas Visiting Doctoral Fellowship (OVDF) for doing one year (September 2024-September 2025)** research at Purdue University, Indiana, USA. Publication: Dimethylamine Bismuth Iodide: A Lead-Free Perovskite Enabling Ultra-Sensitive UVC Photodetection with Low Operating Voltage and High Detectivity.

**GARIMA SHUKLA**

Enrollment No. 10PP19A29022, Supervisor: Dr. Ashwini Kumar, CSIR-NIO, Selected as a **Solas early career scientists member** from India.

**NISHAMOL M.**

Enrollment No. 10BB24J29018, Supervisor: Dr. Cathrine Sumathi Manohar, CSIR-NIO, Received the **Best Oral Presentation Award** in the conference on Mangroves for Climate Change mitigation and sustainability of the coastal populace held at PES College, Ponda, Goa in July 26– 27, 2024.

**ADITI SHARMA**

Enrollment No. 10BB24A29024, Supervisor: Dr. VVSS Sarma, CSIR-NIO, participated in the NF-POGO-OOI-WHOI Shipboard training Onboard the research vessel Sikuliaq during the station Papa expedition and was conducted by the U.S. National Science Foundation's Ocean Observatory Initiative (OOI) held at Gulf of Alaska.

**SWATI SONKER**

Enrollment No. 10PP22A29027, Supervisor: Dr. Abhay B Fulke, CSIR-NIO, Received the **3<sup>rd</sup> position in the Paper Presentation event** in the 4<sup>th</sup> International Conference on Environment and Sustainable Development held at SEDS, New Delhi.

**TAPAS KUMAR MISHRA**

Enrollment No. 10PP20A29022, Supervisor: Prof. Sunil Kumar Singh, CSIR-NIO, attended the "Marine Radioactivity Training Workshop" held at Xiamen University, Malaysia from August 19-23, 2024.

**VIJAY PRATAP SINGH**

Enrollment No. 10PP20A29016, Supervisor: Dr. Rudraswami Gowda, CSIR-NIO, attended the "Goldschmidt- 2024 Conference" held at Chicago, USA from August 18-23, 2024. Also gave an oral talk on research work titled "First Recovery of Micrometeorites from K-Pg Boundary: Unveiling the Role of Cosmic Dust in Mass Extinction".

**GARIMA SHUKLA**

Enrollment No. 10PP19A29022, Supervisor: Dr. Ashwini Kumar, CSIR-NIO, Received the **Best Poster Presentation Award** in the SOLAS Open Sciences Conference (OSC) 2024, organized by CSIR- NIO, Goa November 10-14, 2024. She also served as the Early Career Scientist Day Chair, where she played a pivotal role in organizing the SOLAS Early Career Scientist Day. This event brought together 40 young researchers from around the world for an enriching day of networking, multimedia sessions, and career advancement workshops. Garima was also elected to the [SOLAS Early Career Scientist Committee](#). This committee, a vital initiative by SOLAS, ensures that the voices of early-career researchers are represented at international levels while fostering collaboration and professional growth among the next generation of scientists.

**HARSHAL SATISH JADHAV**

Enrollment No. 10PP20A29052, Supervisor: Dr. Abhay Fulke, CSIR-NIO, has been awarded with International travel grant to attend the "One Ocean Science Congress to be held at Nice, France during 3<sup>rd</sup> to 6<sup>th</sup> June 2025. He will give Oral Presentation at this conference on the topic "Separation of plastic degrading bacteria from biofilm using electromagnetic radiation by switch off quorum sensing".

**PS MANORANJAN JENA**

Enrollment No.- 32EE18A31004, CSIR-NML Supervisor: Dr. -Ing Jitendra Kumar Sahu, Received **Acta student award for publication** in Materelia Journal having title "Discrepancy in low cycle fatigue and creep-fatigue life of 720Li alloy tested at 720 °C: Role of crystallographic texture evolution" in year 2024.

**ANKITA MALL**

Enrollment No. 10PP20J32009, Supervisor: Dr. Sachchidanand Singh, CSIR-NPL, Delhi, Received the **Best Paper Presentation Award** in IASTA National Aerosol Conference 2024 organized by Doon University in collaboration with ARIES and IASTA in December 17 – 20, 2024.

**SACHIN**

Enrollment No. 10CC18A32059, Supervisor: Dr. Nahar Singh, CSIR-NPL, Received the **Best Thesis Award** at the 9th Annual HDR Water Research Symposium at RMIT University, Australia on November 6, 2024.

**AJAY SHARMA**

Enrollment No. 10MM19A42001, Supervisor: Dr. Puspanjali Tripathy, CSIR-NIScPR, on the occasion of National Space Day, delivered a lecture on "Science Technology and Innovation" at the School of Engineering & Technology (SOET), BGSB University Rajouri (J&K) on August 23, 2024.

**ISHITA GOYAL**

Enrollment No. 10MM18A30002, Supervisor: Dr. Y. Madhavi, CSIR-NIScPR, delivered poster presentation entitled "Safe disposal of insulin waste in India: A policy perspective" in the conference in Ireland for International Geographical Congress (IIGC), held at Dublin during August 24–30, 2024.

**VIJAY LAXMI**

Enrollment No. 10MM19J42004, Supervisor: Dr. Manish Mohan Gore, CSIR-NIScPR, won the **First prize in the paper presentation** in the 4th National Hindi Science Conference held at CSIR-AMPRI Bhopal, her paper entitled "Role of Hindi language in HIV/AIDS through science communication" was presented on July 30-31, 2024.

**RITA THEODORE**

Enrollment No-10MM19A42005, Supervisor: Dr. NK Prasanna, CSIR-NIScPR, Received the **Second Prize at the National Hindi Science Conference**, AMPRI, Bhopal, for the research paper presentation titled: Paramedics Research and Hindi Science Journalism; A Joint Effort on 30-31 July 2024.

**HIMANI MEENA**

Enrollment No-10MM24J46004, Supervisor: Dr. NK Sahoo, CSIR-NIScPR, secured **Third Prize in the quiz competition** held during the Organ Donation Awareness Camp organized by CSIR-NIScPR, Pusa Campus on August 14, 2024.

**MOUMITA MAZUMDAR**

Enrollment No-10MM21J42001, Supervisor: Dr. Paramananda Barman, CSIR-NIScPR, was awarded **Second Prize in the quiz competition** held during the Organ Donation Awareness Camp organized by CSIR-NIScPR, Pusa Campus on August 14, 2024.

**PRANJAL JAIN**

Enrollment No. 10MM23J46001, Supervisor: Dr. Charu Lata, CSIR-NIScPR, Received the **Best Poem Award in the Hindi Pakhwada** at CSIR-NIScPR, New Delhi, organized by CSIR from September 14 – 28, 2024 and Runner Up for Science Fiction Writing at Singularity: AcSIR Science Festival on 20th September 2024 at CSIR-IGIB, New Delhi.

**DEVINA KANOUIJA**

Enrollment No. 10MM23J46003, Supervisor: Dr. Charu Lata, CSIR-NIScPR, presented a poster at the international conference on "Communication and Dissemination of Traditional Knowledge (CDTK-2024)" held at the University of Gurugram from 13-14 November 2024.

# Faculty

## Achievements

A delegation of AcSIR from CSIR-Central Building Research Institute (CBRI) actively participated in the prestigious 18th World Conference on Earthquake Engineering (18WCEE), held in Milan, Italy, from June 30 to July 5, 2024. This globally recognized event gathered experts, researchers, and industry professionals to discuss and share advancements in earthquake engineering.

Our delegation included CSIR-CBRI Director, Prof. Pradeep Kumar Ramancharla, three distinguished scientists – Dr. Ajay Chourasia, Dr. Manojit Samanta, Dr. Chanchal Sonkar, and three enthusiastic students – Vaibhav Mittal, Moka Eswar, Gopal Das. Their participation and contributions have brought significant recognition to our institute on an international platform.

### Presented Papers:

S. No	Authors	Title of the Paper
1.	P.K. Ramancharla*, C.V.R. Murty	Earthquake Engineering Education: A Key to Earthquake Disaster Mitigation
2.	T. Niharika, P.K. Ramancharla*	Path-Dependent Variation of Earthquake Energy in the Himalayan and The Hindu Kush Region
3.	A. Chourasia*, S. Singhal	Damage Assessment and Structural Behavior Factor for Precast Reinforced Concrete Structural Systems
4.	C. Sonkar*, A. Chourasia, D. McCrum	Behaviour of Cold-Formed Steel Stud-Sheathing Connections Subjected to In-Plane Lateral Loads
5.	V. Mittal*, M. Samanta, D.P. Kanungo	Effect of Spacing of Piles in Pile-Raft Foundation on Seismic Response of Building Considering SSI
6.	M. Eswar*, A. Chourasia, S. Singhal, P.K. Ramancharla	Seismic Behaviour of Beam-Column Joints Reinforced with Fe-Based Shape Memory Alloy Bars
7.	G. Das*, M. Samanta	Investigation on Seismic Internal Stability of Geosynthetic Reinforced Soil Wall

*\*Presenting Author*



#### Dr. RAJAN SANKARANARAYANAN

Outstanding Scientist, CSIR-CCMB & Professor, AcSIR  
Annual Endowment Award-III from University of Hyderabad



#### Dr. G R CHANDAK

J C BOSE FELLOW, CSIR-CCMB  
Fellow of The World Academy of Sciences (TWAS) effective Jan' 2024  
Adjunct faculty in Public Health foundation of India for 3 years



#### Dr. AMITABHA CHATTOPADHYAY

CSIR Bhatnagar Fellow, CSIR-CCMB  
Editor-in-Chief position of The Journal of Membrane Biology, a well-known and reputed journal in the area of membrane biophysics and membrane biology  
Selected for INSA Distinguished Lecture Series

**Dr. K THANGARAJ**

CSIR Bhatnagar Fellow, CSIR-CCMB

Chairperson, Research Advisory Committee, ICAR-National Bureau of Animal Genetic Resources (NBAGR), Karnal, Chairperson, Expert Committee, DBT-TWAS Fellowship programme, DBT, Gol. Chairperson, Expert Committee for Unique Method for Management of Inherited Disorders (UMMID) initiative, DBT, Gol, New Delhi and Member, Board of Governors, NIPER, Hyderabad

**Dr. SANTOSH CHAUHAN**

Senior Principal Scientist, CSIR-CCMB & Professor AcSIR

Elected as the INSA fellow for his work on autophagy and inflammatory pathways

**Dr. RAGHUNAND TIRUMALAI**

Senior Principal Scientist, CSIR-CCMB & Associate Professor, AcSIR

Elected Fellow of the Telangana Academy of Sciences

**Dr. MEGHA KUMAR**

Senior Scientist, CSIR-CCMB & Assistant Professor, AcSIR

Board Member of the Indian Society of Developmental Biologists

**Dr. Ajit Kumar Shasany**

Director, CSIR-NBRI & Outstanding Professor, AcSIR

Has been elected as Fellow of the prestigious Indian National Science Academy (FNA).

Earlier, Dr. Shasany has been elected as a member of the National Academy of Sciences (India), Allahabad in the year 2018 and National Academy of Agricultural Sciences, New Delhi in the year 2017 and has published more than 150 research papers and has been granted more than 100 patents.

**Dr. TEJENDER S. THAKUR**

Principal Scientist & Associate Professor AcSIR

Biochemistry & Structural Biology Division, CSIR-CDRI

Selected as **Associate Editor** of Inorganic Chemistry Communication Journal.

**Dr. NAMRATA RASTOGI**

Principal Scientist & Associate Professor AcSIR

Medicinal & Process Chemistry Division, CSIR-CDRI

Received **Bronze Medal Award 2024** by the Society Chirantan Rasayan Sanstha®

**Dr. SUBRATA KUNDU**

Principal Scientist & Associate Professor AcSIR

Electrochemical Process Engineering Division (EPED), CSIR-CECRI

Research.com published the list of Best Materials Science Scientists in India.

The 3rd edition of Research.com ranking of the best researchers in the field of Materials Science was created. Position in the ranking is based on a scholar's D-index (Discipline H-index), which only includes publications and citation metrics for an examined discipline.

Link: <https://research.com/scientists-rankings/materials-science/in>

Materials Science: World Ranking: 3842; India Ranking: 29 ; Chemistry: World Ranking: 5445;

India Ranking: 52; <https://research.com/scientists-rankings/chemistry/in>

'Guest Editor' for a theme collection from RSC Journal 'Materials Advances' entitled: '1D Fibrous Materials for Advanced Energy Storage and Conversion' deadline is 11th December 2024.

Guest Edited by: Dr Subrata Kundu (Academy of Scientific and Innovative Research (AcSIR), India); Professor Shaikh M. Mobin (Indian Institute of Technology Indore (IIT), India); Dr Shaila Afroj (University of Exeter, United Kingdom); A high impact journal publication just came online in 'Advanced Functional Materials' having IF: 18.5; Designing Salen-based Porous Organic Polymers for Enhanced Electrolytic Water Splitting into Oxygen, H. Pal, A. Karmakar, A. Sadhukhan, K.

Koner, S. Karak, R. K. Sharma, M. Ghosh, K. K. Dey, B. Pathak, S. Kundu, R. Banerjee, *Advanced Functional Materials*, 2024 (Accepted) (IF: 18.5); Link: <https://onlinelibrary.wiley.com/doi/10.1002/adfm.202408255>  
 Hetero-bimetallic synergism in triple-redox 2D framework for largely boosted water oxidation and flanked carboxylic-acid-triggered unconventional tandem catalysis, R. Chanda, A. Karmakara, S. Kundu, S. Neogi, *Small*, 2024, 2404085 (IF: 13.3) <https://doi.org/10.1002/sml.202404085>;  
 Tailoring Mott–Schottky RuO<sub>2</sub>/MgFe-LDH Heterojunctions in Electrospun microfibers: A bifunctional electrocatalyst for water Electrolysis, S. Nagappan, R. Jayan, N. Rajagopal, A. V Krishnan, M. M. Islam and S. Kundu, *Small*, 2024, 2403908 (IF: 13.3); <https://doi.org/10.1002/sml.202403908>



#### **Dr. V. SARASWATHY**

Chief Scientist & Professor AcSIR  
 Corrosion & Materials Protection Division, CSIR-CECRI  
 Technical Committee Member of Corrosion Protection and Finishes Sectional Committee nominated by the BIS, New Delhi. Key Note Speaker for the International Conference on Future Technologies 2024 (ICOFT 2024) held at NIT, Puducherry



#### **Dr. KAMALESH PRASAD**

Chief Scientist & Professor AcSIR  
 Natural Products & Green Chemistry Division (NPGC), CSIR-CSMCRI  
 (1) International Expert Reviewer for project submitted to the Austrian Science Fund (FWF)  
 (2) Chairperson-Selection committee for ASEAN-India CRD proposals under the theme “Marine Science & Technology” – Anusandhan National Research Foundation  
 (3) Invited member-Technical committee for procurement of equipment for upgradation of laboratories infrastructure at CFQCTI and RFCLs- Ministry of Agriculture & Farmer Welfare  
 (4) Invited member-Bio stimulant Sub Committee, Ministry of Agriculture & Farmer Welfare



#### **Dr. GOVIND SETHIA**

Senior Scientist & Asst. Professor AcSIR  
 Inorganic Materials & Catalysis Division (IMCD), CSIR-CSMCRI Young Scientist Award, by International Association of Advanced Materials, During the Advanced Material Congress held on 24-26 September at Jodhpur, India.



#### **Dr. HEMANT KUMAR GAUTAM**

Chief Scientist & Professor AcSIR  
 Deliver a keynote lecture at the 2nd International Conference on Microbiology and One Health (MOH-VN 2024) to be organized by International Centre for Interdisciplinary Science and Education at Quy Nhon, Vietnam 11.08.2024 to 14.08.2024.



#### **Prof. SHANTANU SENGUPTA**

Chief Scientist & Professor, AcSIR  
 CSIR-IGIB, New Delhi  
 To attend the annual review meeting of Cardiometabolic Risk Reduction (CARRS) in South Asia Project at Emory University, Atlanta.  
 Countries visited: USA  
 Period of visit: 01.10.2024 to 03.10.2024



#### **Dr. RAJESH KUMAR PANDEY**

Pr. Scientist, Associate Professor AcSIR  
 CSIR-IGIB, New Delhi  
 To attend the CARRS project review meeting at Emory University, USA from October 1-3, 2024.  
 To attend the Oxford Nanopore Gulf Summit at Dubai from November 12-13, 2024.

**Dr. DEBOJYOTI CHAKRABORTY**

Pr. Scientist, Assistant Professor AcSIR  
CSIR-IGIB, New Delhi

To attend the EMBO Global Investigator network and EMBO 60th Anniversary Celebration Meeting at Heidelberg, Germany from 29.10.2024 to 01.11.2024. To attend the IAS Frontiers Conference on Genome Engineering from November 13-15, 2024 at Singapore.

**Dr. VIJAY PAL SINGH**

Pr. Tech. Officer, Assistant Professor AcSIR to participate as lead facilitator in the course on Laboratory Animal Science in Kenya from 18-29 Nov, 2024.

**Dr. NEERU SAINI**

Chief Scientist, Professor AcSIR, CSIR-IGIB, New Delhi  
Nominated for NARI SHAKTI INDIA INTERNATIONAL SCIENCE FESTIVAL 2024 in Guhwati.  
Recognised by INDIA INTERNATIONAL SCIENCE FESTIVAL 2024 in Guhwati  
30-Nov-2024 to 03-Dec-2024

**Dr. SHRUTHY SURESH AGGARWAL**

Scientist, Assistant Professor AcSIR, CSIR-IGIB, New Delhi  
Invited talk at Indian Zebrafish Investigators Meeting 2024  
Recognised by Institute of Life Sciences, Bhubaneswar, 06-Nov-2024 to 08-Nov-2024

**Dr. BHAVANA PRASHER**

Professor AcSIR, CSIR-IGIB, New Delhi  
Invited as expert panelist by (a) WHO for consultative technical workshop on scope of AI for traditional medicine recognised by WHO, Sep -2024. Invited talk in (a) Regional young Investigator's meet recognised by MAHE, Bangalore (online) 29 Nov 2024.

**Dr. BHAVYA BHARGAVA**

Senior Scientist & Assistant Professor AcSIR  
Agrotechnology Division, Floriculture and Landscaping, CSIR-IHBT, Palampur  
Received the Fellowship of Society Award, 2024  
Indian Society of Ornamental Horticulture (ISOH), India.

**Dr. A.V. SESA SAINATH**

Senior Principal Scientist & Associate Professor, AcSIR, CSIR-IICT, Hyderabad  
Honored with National Technology Award "Tech Shri" 2024 from Association for Quality Education and Research (AQER), Received the OUTSTANDING RESEARCHER in POLYMERS 2024 award from 10th Annual Research Meet ARM-2024, Venus International Foundation in Chennai recently.

**Dr. ABHIJIT HAZARIKA**

Scientist & Assistant Professor, AcSIR  
CSIR-IICT, Hyderabad  
Recognised as Early Career Advisory Board in ChemNanoMat Journal.

**Dr. S. SRIDHAR**

Chief Scientist & Professor, AcSIR  
CSIR-IICT, Hyderabad  
Recognised as Fellow of Royal Society of Chemistry (FRSC), London, UK.

**Dr. SURYA PRAKASH SINGH**

Principal Scientist & Assistant Professor, AcSIR CSIR-IICT, Hyderabad  
Recognised as "INSA Associate Fellow (2024)" under Chemical Sciences.

**Dr. CHITTARANJAN PATRA**

Sr. Principal Scientist & Associate Professor, AcSIR, CSIR-IICT, Hyderabad

Received the "ABAP Gold Medal 2024 for Advanced Research in Nanoscience and Technology" from Association of Biotechnology and Pharmacy. The medal was presented to him during International Conference on Emerging Trends in Biopharmaceuticals and Translational Research for Human Health (ETBTRH-2024), held at Mangalayatan University, held during 19-21 December, 2024. received the prestigious MRSI Medal-2024, which was presented to him during the 'Annual General Meeting, held at UGC-DAE-CSR, Indore, during December 3-6, 2024.

**Dr. VINEET ANIYA**

Senior Scientist & Assistant Professor, AcSIR, CSIR-IICT, Hyderabad

Selected as an Indian National Academy of Engineering #INAE Young Associate for the year 2024 in the Chemical Engineering field. Awarded the Paired Early Career Fellowship in Applied Research (PECFAR-2024) Award by Indo-German Science and Technology Centre (IGSTC), a joint initiative by the Department of Science & Technology (DST)

**Dr.(Ms.) SHARMISTHA ANWAR**

Senior Principal Scientist & Associate Professor, AcSIR

Pyrometallurgy & Materials Engineering, CSIR-IMMT

Received the Indo-German Science & Technology Center-WISER 2024 Award.

**Dr. BAMAPRASAD BAG**

Senior Principal Scientist and Professor, AcSIR

Materials Chemistry & Interfacial Engineering, CSIR-IMMT

Received a visiting fellowship for a short research trip to France (SRTF) from the Institute of France in India (IFI), the educational, scientific and cultural wing of the Embassy of France in India under scientific high level visiting fellowships (SSHN- 2024) Scheme for a duration of two weeks (December 08-22, 2024).

**Dr. Anu Raghunathan**

CSIR-NCL, Has been invited to join the editorial board of the journal PLOS Computational Biology, established in 2005 by the Public Library of Science in association with the International Society for Computational Biology (ISCB).

**Dr. Rajesh Kanawade**

CSIR-NCL, has won the 2024 IESA Technology Innovation of the Year Award for Green Hydrogen category. This award was given in recognition of the electrolyser test station we developed at the CSIR-NCL. This award was given on 1st July at the IESA Annual Industrial Excellence Awards ceremony in New Delhi, received this award on behalf of CSIR-NCL and Hydrogen Team.

**Dr. T. Raja**

CSIR-NCL, for its DME program along with its partner Equinox Software and Services Pvt. Ltd. has been declared as the Winner of the 8th CII National Energy Efficiency Circle Competition under the "Innovative Clean & Green Technology & Solution Provider" category.

Team led by Dr. T. Raja

**Dr. V. Koteswara Rao**

CSIR-NCL, has been elected as a Fellow of the Telangana Academy of Sciences (FTAS) for the year 2023.

**Dr. Mahesh D. Patil**

Scientist & Assistant Professor, AcSIR

Chemical Engineering and Process Development Division, CSIR NCL Pune.

Dr. Mahesh Patil was among the 25 selected participants from across India to attend the workshop 'Practical Aspects of Drug Discovery' organized by The Wellcome Centre for Anti-Infectives Research (WCAIR), University of Dundee in collaboration with the CSIR-Central Drug Research Institute, Lucknow held at CSIR-CDRI, Lucknow, 3-8 November 2024.

**Dr. B. PRASANTA K PATRO**

Chief Scientist and Coordinator & Professor AcSIR  
Magnetotellurics Division, CSIR-NGRI, Hyderabad, Bestowed the National Geoscience Award 2023 in the field of geophysics/applied geophysics by the Honorable President Smt. Droupadi Murmu on 20th August, 2024 at Rashtrapati Bhavan, New Delhi.  
37th International Geological Congress conference (IGC), Busan, Republic of Korea held during 25th – 31st August, 2024

**Dr. LAXMIDHAR BEHERA**

Chief Scientist & Professor AcSIR,  
Controlled Source Seismics and Gas Hydrates Division, CSIR-NGRI, Hyderabad  
37<sup>th</sup> International Geological Congress conference (IGC), Busan, Republic of Korea held during 25<sup>th</sup> – 31<sup>st</sup> August, 2024

**Dr. AJAY KUMAR SINGH**

Scientist & Assistant Professor AcSIR,  
Geochemistry Division, CSIR-NGRI, Hyderabad, 37<sup>th</sup> International Geological Congress conference (IGC), Busan, Republic of Korea held during 25<sup>th</sup> – 31<sup>st</sup> August, 2024

**DR. SANDEEP K. GUPTA**

Senior Principal Scientist & Professor AcSIR  
Seismological Imaging Group, CSIR-NGRI, Elected Fellow, Telangana Academy of Sciences

**DR. N.C. MONDAL**

Principal Scientist & Associate Professor AcSIR  
CSIR-National Geophysical Research Institute, Hyderabad, India  
Best Researcher Award in “Soil Pollution” under Sustainable Agriculture & Food Systems conferred by Sciencefather (Approved by Ministry of Corporate Affairs (MCA), Govt. of India) on November 4, 2024.

**DR. HIMANGSHU PAUL**

Scientist & Assistant Professor AcSIR  
Environmental Seismology Group, Seismology Division, CSIR-NGRI  
Participated and presented papers in the 15<sup>th</sup> General Assembly of the Asian Seismological Commission, held in Antalya, Türkiye, 3-7 November 2024. Awarded a grant of 500 EUR toward living/travel expenses and Partial Travel Support by the Asian Seismological Commission

**DR. SHIB SANKAR GANGULI**

Senior Scientist & Asst. Professor AcSIR  
Controlled Source Seismic & gas-Hydrates Research Division, CSIR-NGRI  
Raman Research Fellowship 2024-25 (Will be Visiting Imperial College London from Jan 28-May 28, 2025), CSIR, Min. of Sc. & Tech, Govt. of India.

**Dr. C. Anandharamakrishnan**

Director, CSIR-NIIST & Outstanding Professor, AcSIR has been selected for the prestigious Rashtriya Vigyan Shri Puraskar 2024 in the field of Agricultural Science. Has been bestowed with the prestigious **Tata Transformation Prize 2024 instituted by New York Academy of Sciences and Tata Sons in Food Security**. Division : Agroprocessing & Technology Division (APTD), Year :2024

**Dr. E. Bhoje Gowd**

Senior Principal Scientist & Professor AcSIR  
Materials Science & Technology Division (MSTD), CSIR-NIIST  
Received the prestigious **CRSI Bronze Medal** for the year 2024, by the Chemical Research Society of India at 33<sup>rd</sup> CRSI National Symposium in Chemistry, Dr. Reddy's Laboratories Ltd., July 4-6, 2024

**Dr. T. P. D. Rajan**

Sr. Principal Scientist CSIR-NIIST & Associate Professor, AcSIR  
Has been selected for **National Metallurgist Award 2023 by Ministry of Steel**.  
Division : Materials Science & Technology Division (MSTD), Year :2024

**Dr. Parijat Pallab Jana**

Scientist, CSIR-NIIST & Assistant Professor, AcSIR received the first prize for the oral presentation on the topic entitled "Development of Al-Mg-(Ce/La) alloys by direct metallo-thermic reduction of rare earth oxides" in the International Conference on Science, Technology and Applications of Rare Earths (ICSTAR-2024) at Trivandrum.

**Dr. E. BHOJE GOWD**

Senior Principal Scientist CSIR-NIIST & Professor AcSIR,  
CRSI Bronze Medal 2024, The Chemical Research Society of India  
Division : Materials Science & Technology Division (MSTD), Year :2024  
Polymer Foundation Award 2024, Prof. Sukumar Maiti Polymer Award Foundation.

**Dr. R.B. RAKHI**

Principal Scientist CSIR-NIIST & Associate Professor AcSIR,  
MRSI Medal 2024, Materials Research Society of India  
Division : Centre for Sustainable Energy Technologies (C-SET), Year :2024

**Dr. PARTHA KUNDU**

Principal Scientist & Assistant Professor AcSIR, CSIR-NIIST  
ICSWM Excellence Award-2024 (Best Paper Presentation) International Society of Waste Management, Air and Water. Division : Environmental Technology Division (ETD), CSIR-NIIST

**Dr. HAIMANTI BISWAS**

Senior Principal Scientist & Assistant Professor AcSIR  
Biological Oceanography Division (BOD), CSIR-NIO, Friedrich Wilhelm Bessel Award, Humboldt Foundation Berlin, June 2024. Visited Hamburg University, Institute of Geology to conduct the research work under Humboldt Award, June to September 2024).

**Dr. SUPRIYA SHET TILVI**

Principal Scientist & Associate Professor AcSIR  
Chemical Oceanography Division (COD), CSIR-NIO  
Conducted Hands-on training course in chromatographic techniques to Graduate students of PES College of Arts and Science, Farmagudi, Ponda Goa on 23<sup>rd</sup> August 2024. Conducted talk on "Career opportunities: Research, Academic & Industry" to Graduate students of PES College of Arts and Science, Farmagudi, Ponda, Goa on 20<sup>th</sup> July 2024. Conducted "National Workshop on Water Quality Monitoring or Sustainable Aquaculture" at CSIR- NIO, Goa from 26<sup>th</sup>-28<sup>th</sup> June 2024.

**Dr. LIDITA D S KHANDEPARKER**

Senior Principal Scientist & Associate Professor AcSIR  
Biological Oceanography Division (BOD), CSIR-NIO  
Inducted as a member of Scientific Steering Committee (SSC) of sustainability Initiative in the Marginal Seas of South and East Asia (SIMSEA). It is an International program introduced originally by International Council for Science (ICSU) Regional Committee for Asia and the Pacific to support Future Earth led by ICSU and ISSC, particularly from the viewpoint of sustainability of the marginal seas in South and East Asia. It also integrates with INTEGRATED MARINE BIOSPHERE RESEARCH (IMBeR) for Ocean sustainability under global change for the benefit of society.



#### **DR. PAWAN DEWANGAN**

Senior Principal Scientist & Assistant Professor AcSIR  
Geological Oceanography Division (GOD), CSIR-NIO, National Geoscience Award 2023. The award is presented by the Union Ministry of Mines and recognises contributions to field of Mineral Discovery & Exploration.



#### **DR. SAMIR DAMARE**

Senior Principal Scientist & Assistant Professor AcSIR  
Biological Oceanography Division (BOD), CSIR-NIO, Emerging Country Researcher Travel Award (Senior Researcher) Organising Committee of the 25<sup>th</sup> International Mass Spectrometry conference 2024 (IMSC 2024). Gave talk on "Mass spectrometry as a tool for understanding biological processes in Ocean held at Melbourne Convention and exhibition Centre, Melbourne, Australia from August 17-23, 2024.



#### **Dr. BIRAJ KUMAR SAHU**

Senior Scientist & Assistant Professor, AcSIR  
Materials Engineering Division (MTE), CSIR-NML, Young Metallurgist (Metal Science) Award -2023" by Ministry of Steel, Govt of India



#### **Dr. ABHILASH**

Senior Principal Scientist & Associate Professor, AcSIR, Metal Extraction and Recycling (MER) Division, CSIR-NML, Vigyan Yuva Shanti Swarup Bhatnagar award in Engineering Sciences



#### **Dr. MANISH MOHAN GORE**

Scientist & Assistant Professor, AcSIR  
Science Media Communication Cell (SMCC), CSIR-NIScPR  
Delivered a talk on "**Innovative Approaches to Science Communication**," organized by the School of Liberal Studies and Media, UPES University, Dehradun, on 11<sup>th</sup> July 2024.



#### **Dr. CHARU LATA**

Principle Scientist & Associate Professor AcSIR  
Traditional Knowledge (TK), CSIR-NIScPR, Selected as a Fellow of the International Society for Environmental Botanists and received the award on 5<sup>th</sup> June 2024 from Prof. Ramesh V. Sonti, Director, IGCEB, New Delhi, Dr. Ajit Shashney, Director, CSIR-NBRI, and Prof. P.V. Sane, Former Director, CSIR-NBRI, at CSIR-NBRI, Lucknow.



#### **Prof. (Dr.) VIPAN KUMAR**

Senior Principle Scientist, CSIR-NIScPR, Coordinator & Professor - Academy of Scientific and Innovative Research (AcSIR) and Head - Energy, Environment and Sustainability Division (CSIR-NIScPR), Delivered a talk on "TRL Assessment and Readiness Technologies" at National Chemical Laboratory (NCL), Pune, on 25<sup>th</sup> June 2024.



#### **Dr. SUJIT BHATTACHARYA**

Chief Scientist & Professor AcSIR  
Innovation, Entrepreneurship and Diffusion Division (IED), CSIR-NIScPR  
Delivered a lecture talk on "Overview : TRL Technologies Rediness Level" at National Physical Laboratory, NCL, Pune on June 25, 2024



#### **Dr. SANDHIYA LAKSHMANAN**

Scientist & Assistant Professor AcSIR  
Energy, Enviroment and Sustanblity Division (EESD), CSIR-NIScPR  
Conducted a Two-Week Online Faculty Development Programme on Mastering Research Paper and Proposal Writing and presented a paper on "Information on Indian Journals and Techniques for Crafting High-Quality Papers" at SRM Institute of Science and Technology, Faculty of Engineering and Technology, Vadapalani Campus, Chennai, on 23<sup>rd</sup> August 2024.

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