

# INDIAN CERAMIC SOCIETY

Care: CSIR-Central Glass & Ceramic Research Institute  
196, Raja S. C. Mullick Road, Jadavpur  
Kolkata – 700 032, India  
Tel : +91 (33) 2413 8878  
E-mail : incers1928@gmail.com • Web : www.incers.org



**Sitendu Mandal**  
Honorary Secretary, Indian Ceramic Society

InCerS: DNA (87): 2023/

October 05, 2023

## Sub: D. N. Agrawal Memorial Award – 2023

Dear Sir,

Greetings from the Indian Ceramic Society. I believe you are in good health and spirit and doing well.

It is my proud privilege to inform you that the Council of the **Indian Ceramic Society** on recommendation of the Award Committee of the Society has decided to present **you** and Dr M. T. Sebastian (Retd. Professor & Chief Scientist, CSIR-NIIST, Kerala) jointly as the recipients of the “**D. N. Agrawal Memorial Award – 2023**”. The award is being given for your lifetime contribution in the field of “**Ceramics Science & Technology**”, which has been deeply ingrained in the minds of all of us.

The award, consisting of a Plaque of Honour, along with a Citation will be presented to you during the **Inaugural Function** of the Society’s 87th Annual Session, scheduled to be held on **December 19, 2023** at 9:30 a.m. at Meghnad Saha Auditorium of CSIR-Central Glass & Ceramic Research Institute, Kolkata – 700 032, West Bengal, India. We are happy to inform you that you will be exempted from paying registration fees for the 87th Annual Session.

You are aware that the 87th Annual Session of the Indian Ceramic Society is going to be held at CSIR–Central Glass and Ceramic Research Institute, Kolkata, India during December 19–21, 2023 and is being hosted by InCerS-Kolkata Chapter in association with CSIR–Central Glass and Ceramic Research Institute. InCerS-Kolkata Chapter will organize an International conference on “Exploring the Emerging World of Ceramics and Glass (ICEECG 2023)” during this occasion. Broadly the conference will cover science and technology of glass and ceramics with an emphasis on recent developments and future trends.

I, on behalf of the Council and on my own behalf, feel it my honour to heartily invite you to attend the Session and receive the Award in person.

In case you need any assistance regarding your accommodation, conveyance, etc, you may kindly contact the Secretariat of the Indian Ceramic Society by email ([incers1928@gmail.com](mailto:incers1928@gmail.com)) with a copy to Mr Sitendu Mandal, Honorary Secretary, InCerS and Chairman of the Kolkata Chapter of InCerS and also Co-chairman, Organizing Committee, ICEECG 2023.

Looking forward to meeting you during the Session and with personal regards,

Yours sincerely,

(Sitendu Mandal)

**To**

**Dr Avesh Kumar Tyagi**

Academician, World Academy of Ceramics (2021) and

Director, Chemistry Group

Bhabha Atomic Research Center, Mumbai

Distinguished Scientist, DAE

Senior Professor, Homi Bhabha National Institute,

Trombay, Mumbai – 400 085

Mobile: 09653260113, 09869443020, Email : aktyagi@barc.gov.in

**Copy to:** Mr J. K. Agrawal — for his kind information

Managing Director, Triveni Glass Ltd, 1, Kanpur Road, Allahabad – 211 001, U.P.

Subject **MRSI Award 2023**  
From Office MRSI <office@mrsi.org.in>  
To <aktyagi@barc.gov.in>  
Cc Anil Kumar P S <anil@iisc.ac.in>  
Date 13.10.2023 12:37

Dear Dr. Tyagi.

I have great pleasure in informing you that the Materials Research Society of India has selected you for the **Distinguished Materials Scientist of the Year Award** for 2023. Your acceptance of the award will enhance the strength of the MRSI.

Kindly note that the award will be presented to you at the Annual General Meeting of the MRSI along with the 5th Indian materials Conclave scheduled to be held at IIT (BHU) Varanasi, during December 12-15, 2023 (website: <https://conferences.iitbhu.ac.in/MRSI-2023>). Kindly send an abstract of your lecture to me.

I look forward to your reply.

With my best personal regards

Sincerely

**S B Krupanidhi**

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President  
Materials Research Society of India  
Indian Institute of Science  
Bangalore 560 012

Tel: 080-22932882 / 22933399  
Fax: 080-23602028  
Email: [office@mrsi.org.in](mailto:office@mrsi.org.in)  
Website: [www.mrsi.org.in](http://www.mrsi.org.in)



**Chirantan Rasayan Sanstha®**  
**Vidyasagar University Campus, Midnapore, West Bengal**

**Registration No. S/2L/61967 of 2016-17**

Webpage: <http://divyarasayan.org>; Email: [rasayan1423@gmail.com](mailto:rasayan1423@gmail.com)

Ref. CRS/Award/096

Date: November 14, 2023

Prof. Dr. A. K. Tyagi, *FRSC, FNASc, FASc, FNAE*  
Distinguished Scientist, DAE  
Director, Chemistry Group, Bhabha Atomic Research Centre (BARC)  
Mumbai - 400 085, India

Respected Sir,

Subject: CRS Gold Medal Award and Presentation of the Award Lecture in the Symposium: "Science Beyond Boundary: Invention, Discovery, Innovation and Society - Rasayan 18"

Greetings from Chirantan Rasayan Sanstha® (CRS).

CRS is a non-profit Scientific Society/Professional Body registered in 2016 to promote research and development activities to meet the needs of our proud nation India and the Globe. CRS Publishes free-of-charge science & technology articles in its journal named Prayogik Rasayan. It organizes seminars, workshops, training sessions, and similar activities to provide a forum for researchers from academic institutions and industries to exchange information and ideas related to all the branches of Science, Society, and Mankind. In such programs, the CRS focuses on addressing the Nation's burning concerns such as energy, health, potable water, food & agriculture, shelter, pollution, climate change & global warming, and nature & animal conservation. Most importantly, CRS is committed to students' welfare and education. It undertakes student-centric programs such as felicitation of school toppers, student-scientist interaction, Lab on Wheels, distribution of food for needy people, rejuvenation in nature, etc. During the Pandemic CRS has played an active role by distributing food materials to needy people and inspiring students who were at home by organizing programs for the students in the open air. CRS has instituted various awards and honors to recognize the exceptional scientific/technological contribution of eminent researchers/technologists working in various areas of Science and Technology. Hitherto, several eminent scientists, researchers, industrialists, and entrepreneurs have been honored with such awards.

CRS, being constituted and administered by the scientific community, is well aware of your brilliant scientific and eminent administrative accomplishments. Apart from serving as a Director of the Chemistry Group at BARC, you are a Senior Professor (Chemical Sciences) at the Homi Bhabha National Institute, Mumbai. CRS members are aware that your group is involved in the preparation of functional advanced materials by soft-chemical and other non-conventional routes. In particular, your research work on dielectric materials, multiferroics, ionic conductors, and magnetic materials, nuclear materials for front-end and back-end applications, Nanomaterials for environmental and societal applications, and Hybrid materials are worthy of appreciation. We are aware that you have been conferred with several prestigious awards such as the DAE-Homi Bhabha Science and Technology Award, MRSI Medal; CRSI Bronze Medal; Gold Medal of Indian Nuclear Society; Rajib Goyal Prize in Chemical Sciences; DAE-SRC Outstanding Researcher Award; CRSI-Prof. CNR Rao National Prize for Chemical Sciences; ISCB Excellence Award in Chemical Sciences; MRSI-ICSC Materials Science Senior Award; Metallurgist of the Year award; CRSI-Silver Medal and MRSI-CNR Rao Prize. CRS is aware that you are a Fellow of the Royal Society of Chemistry, UK (FRSC), the National Academy of Sciences, India (FNASc), the Indian Academy of Sciences (FASc), and Maharashtra Academy of Sciences (FMASc).

Given these exceptional contributions and accomplishments, CRS humbly proposes to honor you with its prestigious Gold Medal Award. We will be highly grateful to you, Sir, if you kindly accept the CRS honor and bless CRS.

Looking forward to hearing from you favorably.

Thank you very much, Sir.

Yours faithfully,

Secretary  
Chirantan Rasayan Sanstha

**Prof. C.V. Yelamaggad**  
[yelamaggad@cens.res.in](mailto:yelamaggad@cens.res.in)/9845068500

President  
Chirantan Rasayan Sanstha  
India

**Professor Braja Gopal Bag**  
[braja@mail.vidyasagar.ac.in](mailto:braja@mail.vidyasagar.ac.in) 9434185048

30 October 2023

Dear Prof. Tyagi,

I have the honour to inform you that TWAS members have elected you as a Fellow of *The World Academy of Sciences (TWAS) for the advancement of science in developing countries*, effective 1 January 2024.

Please allow me to offer my sincere congratulations. Your election is a clear recognition of your outstanding contribution to science and its promotion in the developing world. We are honoured to have you among our members.

Attached please find a letter from the UNESCO-TWAS Executive Director, Prof. Romain Murenzi, requesting some additional information.

With kindest regards,

Yours sincerely,



Prof. Quarraisha Abdool Karim  
President

Prof. Avesh Kumar **Tyagi**  
Bhabha Atomic Research Centre (BARC)  
Chemistry Group  
Mumbai - 400 085  
India



30 October 2023

Dear Prof. Tyagi,

I would like to join TWAS President Quarraisha Abdool Karim in extending our heartfelt congratulations on your election into TWAS membership as of 1 January 2024.

The induction ceremony during which newly elected members are introduced to the Academy will be held during the next TWAS General Conference. The venue, dates and more details on the event will be sent to you in due course.

To complete our records, we ask you to kindly complete the attached privacy authorization form, also indicating your date, place and country of birth, and submit it by email to <yearbook@twas.org> no later than **30 November 2023**.

As of 10 January 2024, you will have access to your FTWAS account in the TWAS Online Directory of Fellows and Young Affiliates. This will allow you to access a private area, where you will be able to complete your profile. Your credentials and clear instructions will be provided to you once the account is activated.

Once again, congratulations, and please feel free to contact the TWAS Executive Director's office should you require any further information (EDoffice@twas.org).

Yours sincerely,



Prof. Romain Murenzi  
Executive Director

Prof. Avesh Kumar **Tyagi**  
Bhabha Atomic Research Centre (BARC)  
Chemistry Group  
Mumbai - 400 085  
India



# विज्ञान और इंजीनियरी अनुसंधान बोर्ड

(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार का एक सांविधिक निकाय)

## SCIENCE & ENGINEERING RESEARCH BOARD

(A Statutory body of Department of Science and Technology, Govt. of India)

डॉ. अखिलेश गुप्ता

सचिव

Dr. AKHILESH GUPTA

SECRETARY

DO. No. SB/SECY/JCB/2023

Dated 28<sup>th</sup> December 2023

### Subject: J C BOSE FELLOWSHIP

Dear Dr. Avesh Kumar Tyagi,

I am delighted to inform that the Search-Cum-Selection Committee has recommended you for the award of J C. Bose Fellowship. Kindly accept my heartiest congratulations. This fellowship is given to you in recognition of your outstanding performance in your area of specialization. The JC Bose Fellow will receive a fellowship amount of Rs.25,000/- per month and research grant of Rs.15.00 lakh per annum for a period of 5 years or up to the age of 68 years, whichever is earlier. It is my pleasure to invite you to accept this prestigious fellowship.

You will receive further instructions and information in this regard soon from concerned SERB Programme Officer of this Scheme. You may contact him for all related matters in future.

With warm regards,

Yours sincerely,

(Akhillesh Gupta)

Dr. Avesh Kumar Tyagi  
Chemistry Group,  
Bhabha Atomic Research Centre,  
Trombay,  
Mumbai-400085

# MAHARASHTRA ACADEMY OF SCIENCES



*This is to certify that Dr. Das Tapas has been elected as a Fellow of Maharashtra Academy of Sciences in the year 2023 for his significant contributions in the field of Chemical Sciences.*

**Prof. G. D. Yadav**  
President

**Date:** December 18, 2023  
**Fellowship No.:** BLF1177

**Dr. Bharat B. Kale**  
Secretary



# विज्ञान और इंजीनियरी अनुसंधान बोर्ड

(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार का एक सांविधिक निकाय)

## SCIENCE & ENGINEERING RESEARCH BOARD

(A Statutory body of Department of Science and Technology, Govt. of India)

डॉ. अखिलेश गुप्ता

सचिव

Dr. AKHILESH GUPTA

SECRETARY

DO. No. SB/SECY/JCB/2023

Dated 28<sup>th</sup> December 2023

### Subject: J C BOSE FELLOWSHIP

Dear Dr. Yusuf,

I am delighted to inform that the Search-Cum-Selection Committee has recommended you for the award of J C. Bose Fellowship. Kindly accept my heartiest congratulations. This fellowship is given to you in recognition of your outstanding performance in your area of specialization. The JC Bose Fellow will receive a fellowship amount of Rs.25,000/- per month and research grant of Rs.15.00 lakh per annum for a period of 5 years or up to the age of 68 years, whichever is earlier. It is my pleasure to invite you to accept this prestigious fellowship.

You will receive further instructions and information in this regard soon from concerned SERB Programme Officer of this Scheme. You may contact him for all related matters in future.

With warm regards,

Yours sincerely,

(Akhilash Gupta)

Dr. S. M. Yusuf

Solid State Physics Division,  
Bhabha Atomic Research Centre,  
Trombay,  
Mumbai-400085

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## ACM India Council Appointments

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ACM India <membernet@acm.org>  
To: Dr Aritra Banik <aritrabanik@gmail.com>

Tue, Jul 16, 2024 at 11:00 AM



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### ACM India Council Appoints Aritra Banik as Council Member



ACM India Council has accepted the resignation of Balaraman Ravindran who was elected as Council Member for the period July 1, 2022 to June 30, 2026. The Council appointed Aritra Banik for the period July 1, 2023 to June 30, 2026 to complete the term.



Aritra Banik holds a PhD and MTech from the Indian Statistical Institute (ISI) Kolkata and currently serves as an Associate Professor at the National Institute of Science Education and Research (NISER) Bhubaneswar. Prior to this, he held a position as an assistant professor at IIT Jodhpur.

Aritra's research focuses on algorithm design, aiming to develop efficient algorithms for various problems. More specifically, his research interests lie in graph algorithms and parameterized algorithms.

Aritra has been actively engaged in various ACM activities, including organizing multiple ACM summer schools and serving as chair of the ACM summer/winter school committee. Additionally, he participated in the ACM India Teaching Partnership Program, furthering educational initiatives. He also served as the organizing chair for the 2024 ACM Annual Event at NISER.

#### **ACM India Council Appoints Ranga Rajagopal as Chief Operating Officer, Designate**



Ranga Rajagopal holds a BE (Hons.) EEE degree from BITS Pilani, an MBA from ICFAI University and PhD in Management (Information Systems) from Anna University. Starting his career with HCL Ltd., he soon rose to a senior managerial position. He was then associated with a reputed ISO certified organization handling technology operations for several years. The company of which he has been the Director & CEO specializes in providing IT services and digital transformation solutions besides offering technology skilling programs.

As an active member of ACM, Ranga has been part of the Internal Engagements Committee for several years. He has supported the ACM India council as the Chief of Jury for the Student Chapter Awards for two years. He has also been a member of the jury for the student chapter awards of ACM HQ. On behalf of the ACM Coimbatore chapter, he was part of the organizing committee for ARCS and ACM India Annual event for 2021 and 2022.

Ranga has also been associated with non-profits such as the CSI, as part of the National Executive Committee. He contributed to streamlining the fiscal compliance as Hon. Treasurer and introduced several student centric activities as National Student Coordinator. With his vast experience in the IT industry, he is an invited speaker and industry



# Certificate of Completion

*The Fulbright Foreign Scholarship Board  
and The Bureau of Educational and Cultural Affairs  
of the  
United States Department of State*

*award this certificate to*

**Prabakar Krishna Murthy**

*in recognition of successful completion of the*

## Fulbright Scholarship Program

April 2024  
Washington, DC

Chair, Fulbright Foreign  
Scholarship Board

Assistant Secretary of State  
Bureau of Educational and  
Cultural Affairs







# THE INDIAN INSTITUTE OF WELDING

(A Member Society of the International Institute of Welding)

Registered & Head Office

IIW-INDIA HOUSE, Plot No. 38, Geetanjali Park,  
200 Kalikapur Main Road, PO: Mukundapur, Kolkata - 700099, INDIA  
Tel: 91 33 2416 0826 / +91 98301 23968 | Telefax: 91 33 2416 0826  
E-mail: [iiw@iiwindia.com](mailto:iiw@iiwindia.com) | Website: <https://iiwindia.com>  
CIN: U27310WB1966GAP026807 | GSTIN: 19AAATT5926E1ZC

**Ref: IIWI/AWD-07/2023**

**Dated: October 3, 2023**

To

**Shri Surender Kumar Sharma et al.**  
**Pulsed Power & Electromagnetics Division,**  
**Bhabha Atomic Research Centre,**  
**Visakhapatnam, Andhra Pradesh, INDIA**  
Email: [surender@barc.gov.in](mailto:surender@barc.gov.in)

**Sub: ESAB India Award-2023 for best paper across all categories**

Dear Sir,

**Greetings from The Indian Institute of Welding (IIW-INDIA)!**

I am pleased to inform you that the paper you presented at the National Welding Seminar 2022-23 held at the Chennai Trade Centre, Nandambakkam, Chennai from 19-21 January 2023 and hosted by IIW-India Chennai Branch titled "Simulation and Experimental Analysis of Magnetic Pulse Welding for Joining of Dissimilar Materials" has been adjudged as the winner of **ESAB India Award-2023** for the best paper across all categories. The Award money is worth Rs. 30,000/-.

The Award will be handed over to you during the inaugural session at the International Congress (IC-2024) to be held at the Jacaranda Hall of the Bangalore International Exhibition Centre (BIEC), Tumkur Main Road, Bangalore on Monday, the 22<sup>nd</sup> of January 2024. The brochure of IC-2024 is attached herewith for your reference.

We would, therefore, request you to please confirm your presence in the inaugural ceremony to receive the award. We also request you to forward your brief Profile, Photograph, ID Proof along with the Bank Account name and Account Details to transfer the prize money.

A line in confirmation per return mail would be highly appreciated.

Thanking you,

Sincerely yours,

**Rituraj Bose**  
**Hony. Secretary General**

**c.c:** Mr. Deepak V. Acharya, President, IIW-INDIA  
Mr. P. Ravikumar, Head-Marketing, ESAB India Ltd.  
Mr. D. V. Kulkarni, Chairman, Technical Committee, IIW-INDIA  
Dr. A. Murugaiyan, Past Chairman, Technical Committee, IIW-INDIA  
Chairman & Convenor, IC-2024 Preparatory Committee



WELDING - FOR NATION BUILDING

# के.के. बिरला फाउंडेशन

कैक्सटन हाउस, मध्य तल,  
2-इ, झण्डेवालान एक्सटेंशन, नई दिल्ली-110055  
फोन : 011 23516483/84 फैक्स : 011 23516480  
ईमेल : kkb2006@gmail.com

निदेशक  
डॉ. सुरेश ऋतुपर्णा



सरस्वती नः सुभगामयस्करतु

# K.K. Birla Foundation

Caxton House, Mezzanine Floor,  
2-E, Jhandewalan Extn., New Delhi 110055  
Ph. : 011 23516483/84 Fax : 23516480  
Website : www.kkbirlafoundation.org

Director  
*Dr. Suresh Rituparna*

2/PUR/2023

19. 2. 2024

## URGENT PRESS MATTER

Dear Sir,

We are enclosing a press note in respect of the Thirty third **G. D. Birla Award for Scientific Research for the year 2023 carrying award money of Rs. 5 lakhs.** As will be seen from the enclosed note the award was instituted in 1991 to accord recognition to high caliber scientific research undertaken by Indian scientists, living and working in India. There are several awards for the top scientists in the country which are generally awarded to senior scientists. However, the unique feature about this award which has received wide appreciation in the scientific community that, this is given to eminent Indian scientists below the age of 50 for their outstanding contributions to any branch of Science.

**The G.D.Birla award for Scientific Research for the year 2023 has been given to Prof. Aditi Sen De, Physics Section, Harish – Chandra Research Institute, Prayagraj, for her outstanding contribution in the field of Physics.** She has made significant contributions to the development of quantum technologies.


**In the history of G. D. Birla Award for Scientific Research, she is the first woman Scientist who has received this award.**

We shall be grateful if you would kindly give due publicity to this news in which is keenly awaited in the scientific and academic circles. This news has an all India importance since the nominations are made from all over the country and the Selection board includes top most scientists from different centers.

**A note on G. D. Birla Award for Scientific Research and Prof. Aditi Sen De** with her photograph are also enclosed for your information.

With kind regards,

Yours sincerely,

  
(Suresh Rituparna)

**G. D. Birla Award for Scientific Research**

**The thirty third G. D. Birla Award for Scientific Research for the year 2023 has been given to Prof. Aditi Sen De, Physics Section, Harish-Chandra Research Institute, Prayagraj** for her outstanding contributions in the field of Physics.

The G.D.Birla Award for Scientific Research was instituted in 1991 by the K.K.Birla Foundation with the objective of accord recognition to high calibre scientific research undertaken by Indian scientists living and working in India. There are several awards for the top scientists in the country. However the unique feature about this award is that this is given to eminent Indian scientists below the age of 50 for their original and outstanding contributions to any branch of Science or Technology.

The award carries a cash prize of **Rs. 5.00 lakhs**. The awards given so far are indicated in the attached list. The rigorous and in depth process of selection made by the Board year after year would be clear from the fact that three of the awardees viz. Dr. R.A.Mashelkar, Prof. Ashoke Sen and Dr. Goverdhan Mehta were much later elected as Fellows of the Royal Society, London. Others also have earned further laurels in their respective fields. This would, indicate the quality of selection made for this award.

The Selection for this Award is made by Board headed by the President of the Indian National Science Academy, New Delhi. Presently the President of INSA is **Prof. Ashutosh Sharma**. The Board includes some of the most eminent scientists of the country like **Dr. Madhu Dikshit**, JC Bose National Fellow and Distinguished Scientist Chair, CDRI Lucknow, **Dr. Subrata Sinha**, Prof. and Head, Dept. of Biochemistry, All India Institute of Medical Sciences, New Delhi, **Prof. D. D. Sarma**, Solid State and Structural Chemistry Unit (SSCU), Indian Institute of Science, Bangalore, Prof. Sanjay Mittal , Dept. of Aerospace engineering, Indian Institute of Technology, Kanpur and **Dr. Suresh Rituparna**, Director of the Foundation, New Delhi.



**Prof. Aditi Sen De and her Research Work**

Prof. Aditi Sen De was born on October 1, 1974 in Kolkata. She completed her PhD in Physics (Title of the thesis: Manipulations of quantum states and their nonclassical applications) under the supervision of Prof. Marek Zukowski at the Institute of Theoretical Physics and Astrophysics, University of Gdansk, Poland, after earning a BSc. In Mathematics (Hons.), Physics and Chemistry from Bethune College (the first women's college in Asia), and MSc. in Applied Mathematics University of Calcutta. Prof. De is currently Professor in quantum information and computation group at the Harish-Chandra Research Institute.

Prof. Aditi Sen De has made significant contributions to the development of quantum technologies, which can revolutionize the way we think about modern technologies. She has created various innovative concepts for quantum communication networks involving several nodes using quantum measurements or quantum gates. She has also developed ideas for quantum thermal machines such as quantum batteries and quantum refrigerators based on quantum many-body systems, thereby contributing to the development of thermodynamic principles in a quantum domain. Her research also includes the characterization of quantum resources in multipartite states required to build quantum devices, and the discovery of no-go theorems such as the no-masking theorem, which has applications in quantum cryptographic networks. This type of characterization is also necessary for understanding some fundamental quantum problems. She has published 197 research articles on quantum information science to date in this field.

She was the recipient of the Shanti Swarup Bhatnagar Prize for Science and Technology to physical sciences from the Council of Scientific and Industrial Research in 2018 and the Buti Foundation Award-2012 for excellence in Theoretical Physics, She is currently a fellow of the Indian National Science Academy and the Indian Academy of Science.

**The awards given so far are as follows:**

<b>Year</b>	<b>Awardees</b>	<b>Subject</b>
1991	Prof. Asis Datta New Delhi	Molecular Biology and Bio-technology
1992	Prof. Goverdhan Mehta Bangalore	Organic Chemistry
1993	Dr. R.A.Mashelkar New Delhi	Polymer Science and Engineering
1994	Prof.Padmanabhan Balaram Bangalore	Molecular Biophysics
1995	Prof. Girish S.Agarwal Ahmedabad	Quantum Optics, Non-Liner Optics
1996	Prof. Ashoke Sen Allahabad	Mathematics & Physics
1997	Prof. Biman Bagchi Bangalore	Physical Chemistry and Condensed (Biophysics)
1998	The Selection Board did not find anyone suitable for the award	
1999	Prof. Sankar K. Pal Calcutta	Pattern recognition
2000	Prof. A. K. Sood Bangalore	Experimental Physics
2001	Dr. Seyed E.Hasnain Hyderabad	Molecular Epidemiology and And Pathogenesis
2002	Dr. P.P.Majumdar Kolkata	Human Genetics
2003	Prof. T.Padmanabhan Pune	Gravitation, Quantum Theory & Cusmology
2004	Prof. Arun M.Jayannavar Bhubaneswar	Condensed Matter Physics
2005	Prof. Dipankar Das Sarma Bangalore	Solid State Physics



2006	Prof. Sriram Ramaswamy Bangalore	Statistical Mechanics
2007	Prof. Santanu Bhattacharya Bangalore	Chemical Biology & Molecular Design
2008	Prof. Raghavan Varadrajan Bangalore	Molecular Biophysics
2009	Prof. Manindra Agrawal Kanpur	Computer Science
2010	Prof. Subhasis Chaudhuri Mumbai	Electrical Engineering
2011	Prof. Tapas Kumar Kundu Bangaluru	Biochemistry
2012	Prof. Nibir Mandal Kolkata	Structural Geology
2013	Prof. Rajesh Gopakumar Allahabad	Theoretical Physicist
2014	Prof. Sanjeev Galande Pune	Epigenetics and Cell Biology
2015	Prof. Sanjay Mittal Kanpur	Mechanics
2016	Prof. Umesh Vasudeo Waghmare, Bangalore	Physics
2017	Dr. Rajan Sankaranarayanan Hyderabad	Structural Biology
2018	Prof. Rajeev K. Varshney Hyderabad	Genomics Science
2019	Prof. Roop Mallik Mumbai	Biophysics
2020	Prof. Suman Chakraborty Kharagpur	Engineering Science
2021	Prof. Narayan Pradhan Jadavpur	Material Science
2022	Prof. Neelesh B. Mehta Bangalore	Wireless Communications



**Prof. Aditi Sen De**

(Recipient of the G.D. Birla Award for Scientific Research, 2023)

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**National Symposium on  
High Voltage – Energy Storage Capacitors and Applications**

**HV-ESCA 2023**

22<sup>nd</sup> – 24<sup>th</sup> June 2023



**Participation certificate**

This is to certify that Harshita Raj  
affiliated to IPR, Gandhinagar

has participated in National Symposium on 'High Voltage – Energy Storage capacitors and Applications' held at DAE Convention centre, Anushakti Nagar, Mumbai, India during 22<sup>nd</sup> -24<sup>th</sup> June 2023. He/She also presented Oral/Poster paper/invited talk entitled 'Capacitor bank-based power supply used for

shaped plasma operation in ADITYA-U TOKAMAK, A milestone in Indian Fusion Program' and awarded 'Best Poster Award'



*Anuradha Mayya*  
Smt. Anuradha Mayya

Chairperson, HV-ESCA 2023



BP-1197

FILE NO. MTR/2023/000002  
**Anusandhan National Research Foundation (ANRF)**  
 (A statutory body created by an Act of Parliament - ANRF Act, 2023)  
 Science & Engineering Research Board (SERB) **MATRICS** Scheme

ANRF  
 3rd & 4th Floor, Block II  
 Technology Bhavan, New Mehrauli Road  
 New Delhi - 110016

Dated: 10-May-2024

**ORDER**

Subject: Financial Sanction of the research project titled "**Collective excitations in interacting topological systems**" under the guidance of **Dr. Ajit Coimbatore Balram, Physics, Institute of Mathematical Sciences, Iv cross road, cit campus taramani, chennai, Chennai, Tamil nadu-600113** - Release of 1st grant.

Sanction of **Anusandhan National Research Foundation (ANRF)** is hereby accorded to the above mentioned fellowship under the **Science and Engineering Research Board (SERB)** scheme - **MATRICS** at a total cost of **Rs. 6,60,000/-** (Rupees Six Lakh Sixty Thousand only) for a duration of 36 months.

The items of expenditure for which the total allocation of **Rs. 6,60,000/-** has been approved are given below:

S. No	Budget Head	Amount	Total (in Rs.)
1	Research Grant	Rs. 2,00,000/- per annum (for a period of three years)	6,00,000
2.	Overheads	Rs. 20,000/- per annum	60,000
3.	Total Cost		<b>6,60,000</b>

2. Sanction of the **ANRF** is also accorded to the payment of **Rs. 2,20,000/-** (Rupees Two Lakh Twenty Thousand only) under 'Grants-in-aid General' to **Institute Of Mathematical Sciences, IV Cross Road, CIT Campus Taramani** being the first installment of the grant for the year 2024-2025 for implementation of the said research project.

3. The expenditure involved is debitable to **Science & Engineering Research Fund**. This release is being made under **MATRICS - MATRICS Expert Committee**

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. **ANRF/F/1092/2024-2025** dated **10 May, 2024**.

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Purpose for which grants can be used are detailed at website ([www.http://serb.gov.in/matrix.php](http://www.http://serb.gov.in/matrix.php)).

7. Total expenditure for International travel cannot exceed Rs.2,00,000 of the overall budget.

8. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The release amount of **Rs. 2,20,000/-** (Rupees Two Lakh Twenty Thousand only) (Recurring Rs. 220000 and Non-Recurring Rs. 0) will be drawn by the DDO of the ANRF and will be disbursed by means of RTGS transaction as per their Bank details given below:

Agency Name	THE INSTITUTE OF MATHEMATICAL SCIENCES
PFMS Unique Code	IMSc
Account Name	SERB-MATRICS - Dr AJIT C BALRAM -IMSc
Account Number	801010210000034
Bank Name & Branch	Bank of India Adyar, 68, 69 Teachers colony, 3rd Cross St, Kasturba Nagar, Adyar, Chennai, Tamil Nadu 600020
IFSC/RTGS Code	BKID0008010
Email address of PI	cb.ajit@gmail.com
Email id of A/C Holder	registrar@imsc.res.in
Email address of concerned officer	ms_ms@serbonline.in



11. The institute will furnish Utilization certificate (UCs) financial year wise to the ANRF and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to ANRF. The budget head-wise interest thus earned will have to be returned to the ANRF by way of a Demand Draft/account-payee cheque drawn in favour of the "Science & Engineering Research Fund", payable at New Delhi and sent to the DDO, ANRF along with a copy of UC/SE.

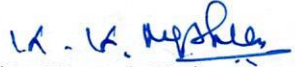
13. The File no. MTR/2023/000002 may also be mentioned in all research communications arising from the above project with due acknowledgement of ANRF.

14. As this is the first grant for the fellowship, no previous U/C is required.

15. The institute must refund any unspent balance to ANRF by means of a Demand Draft favouring "**SCIENCE AND ENGINEERING RESEARCH FUND**" payable at New Delhi.

16. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the ANRF, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

17. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the ANRF, a statutory body of Department of Science & Technology (DST), Government of India.



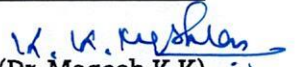
(Dr. Magesh K K)  
Scientist E

ms\_ms@serbonline.in

To,  
DDO  
ANRF, New Delhi

Copy forwarded for information and necessary action to: -

1.	Office of Director General of Audit (Environment & Scientific Department), AGCR Building, I. P. Estate, New Delhi 110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy
4.	<b>Dr. Ajit Coimbatore Balram</b> Physics Institute of Mathematical Sciences , Iv cross road, cit campus taramani, chennai, Chennai, Tamil nadu-600113 Email: cb.ajit@gmail.com Mobile: 919962810891 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	<b>Registrar,</b> <b>Institute Of Mathematical Sciences, IV Cross Road, CIT Campus Taramani</b> (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Magesh K K)  
Scientist E

ms\_ms@serbonline.in



# विज्ञान और इंजीनियरी अनुसंधान बोर्ड

(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार का एक सांविधिक निकाय)

## SCIENCE & ENGINEERING RESEARCH BOARD

(A Statutory body of Department of Science and Technology, Govt. of India)

डॉ. अखिलेश गुप्ता

सचिव

Dr. AKHILESH GUPTA

SECRETARY

DO. No. SB/SECY/JCB/2023

Dated 28<sup>th</sup> December 2023

### Subject: J C BOSE FELLOWSHIP

Dear **Prof. Meena Bhaskar Mahajan**,

I am delighted to inform that the Search-Cum-Selection Committee has recommended you for the award of J C. Bose Fellowship. Kindly accept my heartiest congratulations. This fellowship is given to you in recognition of your outstanding performance in your area of specialization. The JC Bose Fellow will receive a fellowship amount of Rs.25,000/- per month and research grant of Rs.15.00 lakh per annum for a period of 5 years or up to the age of 68 years, whichever is earlier. It is my pleasure to invite you to accept this prestigious fellowship.

You will receive further instructions and information in this regard soon from concerned SERB Programme Officer of this Scheme. You may contact him for all related matters in future.

With warm regards,

Yours sincerely,

(Akhilesh Gupta)

**Prof. Meena Bhaskar Mahajan**

Theoretical Computer Science,  
Institute of Mathematical Sciences,  
IV Cross Road, CIT Campus,  
Taramani-600113, Chennai





CHEMICAL RESEARCH SOCIETY OF INDIA  
INDIAN INSTITUTE OF SCIENCE  
BANGALORE – 560 012

---

*N. Sathyamurthy*  
*President*

5 August, 2019

To

**Dr. C. Gunanathan**

Catalysis laboratory

School of Chemical Sciences

National Institute of Science Education and Research Bhubaneswar

P.O. Jatni, Khurda 752050, Odisha,

[gunanathan@niser.ac.in](mailto:gunanathan@niser.ac.in)

Sub: Chemical Research Society of India (CRSI) Bronze Medal

Dear Dr. Gunanathan,

I am delighted to inform you that you have been chosen to receive the CRSI Bronze Medal in recognition of your contributions to research in chemistry. The medal will be presented to you either in the 26<sup>th</sup> CRSI National Symposium in Chemistry (NSC-26) to be held at VIT University, Vellore, during February 6-9, 2020 or in the 27<sup>th</sup> CRSI National Symposium in Chemistry (NSC-27), which will be held at the IISER, Kolkata, during July 16-19, 2020. We will send more information about these meetings soon.

Kindly accept my congratulations.

I appreciate receiving your response at the earliest. Look forward to hearing from you.

With best wishes,  
Sincerely,

N. Sathyamurthy





# विज्ञान और इंजीनियरी अनुसंधान बोर्ड

(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार का एक सांविधिक निकाय)

## SCIENCE & ENGINEERING RESEARCH BOARD

(A Statutory body of Department of Science and Technology, Govt. of India)

प्रो० संदीप वर्मा

सचिव

Prof. SANDEEP VERMA

SECRETARY

Dated: 06<sup>th</sup> July 2021

Dear **Dr. Chidambaram Gunanathan**,

Science & Engineering Research Board (SERB) has been established as a Statutory Body under the Department of Science & Technology (DST) to function as a premier agency to support research in frontier areas of Science and Engineering.

SERB has strong record of funding internationally competitive research, largely due to its robust peer-review structures, which are independent and merit-based. The Expert Committees (ECs) are at the core of our assessment mechanism, that engage leading researchers to steer the process for establishing the support worthiness of grant applications, from young scientists and early career researchers.

It is my privilege to invite you as the **Co-opted Member of the Expert Committee – Chemical Sciences** (*Start-up Research Grant & National Post-Doctoral Fellowship and Early Career Research Award schemes*). The full composition of the Committee and terms of reference may be seen vide notification attached herewith. I request you to accept this responsibility and serve the cause of Indian Science through your contributions, while working on this Committee.

My colleague, Dr. S.V. Prasanna, will shortly get in touch with you regarding working level details and related information.

With warm personal regards and best wishes,

Yours sincerely,

  
(Sandeep Verma)

To,

**Dr. Chidambaram Gunanathan**

Department of Chemical Sciences

National Institute of Science Education and Research

Bhubaneswar



## Journal of Chemical Sciences

Publishing model: Subscription

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# Certificate

The Thieme Chemistry Journals Award, established in 1999 with the aim to encourage young scientists, is granted to prospective chemists, who have been recognized as high-potential researchers in the field of synthetic organic chemistry by the editorial board members of SYNTHESIS, SYNLETT and SYNFACTS .

## Thieme Chemistry Journals Award

Sponsored by the Thieme Group in collaboration with the editors of SYNTHESIS, SYNLETT and SYNFACTS

This is to certify that

**Chidambaram Gunanathan**

is an official recipient of the Thieme Chemistry Journals Award 2020.

Stuttgart, January 14, 2020

Susanne Haak

Senior Director  
Thieme Chemistry Journals





प्रोफेसर आशुतोष शर्मा  
अध्यक्ष

**Prof. Ashutosh Sharma**  
**President**

**भारतीय राष्ट्रीय विज्ञान अकादमी**  
बहादुर शाह ज़फर मार्ग, नई दिल्ली-110002  
**INDIAN NATIONAL SCIENCE ACADEMY**  
Bahadur Shah Zafar Marg, New Delhi-110002

No. CC/  
9 May, 2024

### INSA Associate Fellows (2024)

Dear Professor Gunanathan,

I am greatly delighted that you have been selected for the prestigious INSA Associate Fellows (2024). You have shown exceptional potential to be a leader in research. I sincerely hope that you will continue to strive hard to reach your potential and to prove your leadership in the coming years. Please accept my heartiest congratulations. I am certain that you will continue to aim for excellence and win many more laurels in coming years.

INSA Associate Fellowship carries a certificate, a fellowship of Rs. 10,000/- per month for one year (w.e.f. 1st January of the ensuing year). The amount will be released to the Institute (in two spells of 6 months), and Institute will pay the fellowship amount to INSA Associate Fellows subject to TDS.

In addition, a one-time travel grant (cost of air passage) for attending international conferences (within two years, w.e.f. 1st January of the ensuing year) will be provided to INSA Associate Fellows.

It is expected that the INSA Associate Fellows will support the cause of Indian science by submitting at least one good paper to PINSA within one year of receiving the Fellowship. You will be invited to present your work during the Anniversary General Meeting (AGM). The dates and venue of AGM will be communicated to you in due course.

Once again, I congratulate you for winning this prestigious INSA Associate Fellows (2024).

Yours sincerely,

(Ashutosh Sharma)

Professor Chidambaram Gunanathan  
#318, School of Chemical Sciences  
NISER Bhubaneswar, Khurda  
Jatani-752050, Odisha



# Gunanathan, Chidambaram

Homi Bhabha National Institute, *IND*

**Year 2024 Rank: 103850**

**Main Field:** Chemistry

**Sub Field:** Organic Chemistry

**H-index:** 10, **Hm-index:** 6.48

**Rank in the SubField:** 1361 out of 170049 authors

**Top 2% Listed Year(s):** 2024 2023 2022 2021 2020



**ELSEVIER**



<https://TopResearchersList.com/>





CHEMICAL RESEARCH SOCIETY OF INDIA  
INDIAN INSTITUTE OF SCIENCE  
BANGALORE – 560 012, INDIA

---

*Professor Vinod Kumar Singh, FNA, FTWAS*  
*President*

July 12, 2022

Professor KRS Chandrakumar  
Theoretical Chemistry  
BARC Mumbai  
Email: [krsc@barc.gov.in](mailto:krsc@barc.gov.in) , [krschandrakumar@gmail.com](mailto:krschandrakumar@gmail.com)

Sub: Chemical Research Society of India (CRSI) Bronze Medal

Dear Professor Chandrakumar,

I am delighted to inform you that you have been selected to receive the **CRSI Bronze Medal** for the year 2023 in the recognition of your significant contribution to research in chemistry. The medal will be presented to you at the National Symposium in Chemistry of 2023, where you will be delivering your lecture. We will send you more information about these meetings soon.

Kindly accept my congratulations. I appreciate receiving your response at the earliest.

I look forward to hearing from you,

With best wishes,

Sincerely yours,

Vinod Singh





# THE NATIONAL ACADEMY OF SCIENCES, INDIA



## APPRECIATION CERTIFICATE (2023)

To

*Asawan D Rath*

of ..... *Bhabha Atomic Research Centre,* .....  
*Mumbai*

.....  
for his/her Best Paper Presentation during  
93<sup>rd</sup> Annual Session of the Academy in the field of

**BIOLOGICAL / PHYSICAL SCIENCES.**

**MUMBAI**

**December 5, 2023**

**Sectional President/GS, NASI**

## Jyoti Kode

---

**From:** j.r.fan@wjgnet.com  
**Sent:** 11/08/2023 16:48  
**To:** jkode  
**Subject:** ID: 00532996 Invitation letter for outstanding editorial board member to be on the cover of World Journal of Stem Cells  
**Attachments:** Agreement for Use of Personal Photos by Baishideng Publishing Group Inc.docx

Dear Dr. Kode,

We extend our congratulations to you on being chosen as the cover person for the latest issue of *World Journal of Stem Cells (WJSC)*. Based upon your important academic contributions to the field of stem cell biology and regenerative medicine as well as your high-quality record of peer-reviewed manuscripts, our Science Editors and Director of Science Editor Development Department recommended you to the company CEO, who approved you as the Outstanding Editorial Board to be featured on the cover of the latest issue of *WJSC*.

At this time, we respectfully request that you submit your recent professional photo, a textual biography, and a signed copy of the 'Agreement for Use of Personal Photos by Baishideng Publishing Group Inc' before **August 21, 2023**. The specific features of each are as follows:

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*Please check if the following information is correct*

Editorial Board Member of *World Journal of Stem Cells*, Jyoti Anand Kode, BSc, MSc, PhD, Associate Professor, Senior Scientist, Kode Lab, Tumor Immunology and Immunotherapy Group, Anti-Cancer Drug Screening Facility, Advanced Centre for Treatment, Research and Education in Cancer, Tata Memorial Centre, Navi Mumbai 410210, Maharashtra, India. [jkode@actrec.gov.in](mailto:jkode@actrec.gov.in)

(For example: Editorial Board Member of *World Journal of Hepatology*, Editorial Board Member, Ladislav Hosak, MD, PhD, Professor, Department of Psychiatry, University Hospital, Sokolska 581, Hradec Kralove 50005, Czech Republic. [hosak@lfhk.cuni.cz](mailto:hosak@lfhk.cuni.cz))

### 3 Certificate of authority

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We are looking forward to receiving your reply soon.

Best regards,

Jia-Ru Fan, Science Editor

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readers. The functions of *RCA* include Find an Article, Find a Category, Find a Journal, Find a Scholar, and Find an Academic Assistant.





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**Requesting partial finance for attending international Immunology Congress at South Africa**

---

Women Graduates Union Wgu <wgu1915@gmail.com>  
To: jkode92@gmail.com

Mon, Sep 4, 2023 at 4:57 PM

----- Forwarded message -----

From: **Asha Mahajan** <sunitamm@gmail.com>  
Date: Fri, Sep 1, 2023 at 4:50 PM  
Subject: Re: Requesting partial finance for attending international Immunology Congress at South Africa  
To: Women Graduates Union Wgu <wgu1915@gmail.com>

Dear Dr Jyoti Kode

Congratulations for your paper being accepted in the prestigious International Conference IUIS . I am Dr Sunita Mahajan, member of the Managing Committee , at WGU.

We all are aware of the greatness of your research in oral cancer and leukaemia.  
Your research is really very important to the Nation. It should get an International platform like the Immunology Conference.

We are glad to accept your request for the contribution of Rs 25000. We wish to put it up to our Trustees and Managing Committee members.

We request you to give us your abstract in layman's terms so that we can all understand it and record it in the minutes.

My contact mobile is 9820785072. My email is [sunitamm@gmail.com](mailto:sunitamm@gmail.com). You may call me or send me a mail.

Wish you all the best in your endeavors to attend the Conference .

Sunita Mahajan  
Member, Managing Committee , WGU

On Thu, 31 Aug 2023, 11:05 Women Graduates Union Wgu, <[wgu1915@gmail.com](mailto:wgu1915@gmail.com)> wrote:  
[Quoted text hidden]



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY

Date: 24-11-2023

To

Dr. Sandip Dhara, FRSC, FInstP, SMOptica

Professor, Physical Sciences, HBNI

Head, Surface and Sensors Studies Division

Materials Science Group, IGCAR, Kalpakkam -63102

Ph: 91-9499914148, 044-2748 0347, 2748 0500-22513 (Off)

91-9445603001 (Res) 044-2954 4535 (Res)

Dear Prof. Sandip Dhara,


Greetings from the Department of Physics and Nanotechnology, SRM IST!

It is our privilege to have you as an expert member in the Board of Studies (BOS) of Physics, because your immense experience and expertise would help us in building a world class academic unit. In this regard, we request you to kindly be part of our BOS expert panel.

Looking forward to your kind response.

Thank you.

Yours Sincerely,

 24/11/2023

(Dr. A. Karthigeyan)

Head, Department of Physics and Nanotechnology



Founded 1841  
Incorporated by Royal Charter 1848  
Patron Her Majesty the Queen



THIS IS TO CERTIFY THAT

***SANDIP DHARA***

HAS BEEN ADMITTED AS A

FELLOW

OF

**THE ROYAL SOCIETY OF CHEMISTRY**

and is entitled to use the designatory letters **FRSC**

President

Chief Executive

Date of admission

**10 March 2017**

Membership Number

**576736**

The certificate is issued subject to the provisions of the Charter and By-Laws  
Registered charity number 207890





# **IOP** Institute of Physics

*This is to certify that  
in October 2021, Council approved*

***Sandip Dhara***

*to be elected as a Fellow of  
The Institute of Physics*

President

Vice-President, Membership




**OPTICA**

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Optica is the leading society in optics and photonics.  
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*Prof. Sandip Dhara*



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अध्यक्ष

**Prof. Ashutosh Sharma**  
President

**भारतीय राष्ट्रीय विज्ञान अकादमी**  
बहादुर शाह ज़फ़र मार्ग, नई दिल्ली-110002  
**INDIAN NATIONAL SCIENCE ACADEMY**  
Bahadur Shah Zafar Marg, New Delhi-110002

No. CC/  
May 9, 2024

**INSA DISTINGUISHED LECTURE - 1 (2024)**

Dear Dr Sharma,

I am delighted to inform you that you have been selected to receive the **INSA Distinguished Lecture Fellowship (2024)** under Physics. Please accept my hearty congratulations.

The Lecture Fellowship comprises a memento, citation and an honorarium of Rs. 10,000/-. The Lecture Fellowship will be presented after the recipient delivers the lecture at the Anniversary General Meeting of the Academy. The programme of the Anniversary General Meeting to be held in December, 2024 will be sent to you in due course.

All INSA Distinguished Lecture Fellows are urged to provide an article for publication in *INSA Proceedings*. I look forward to receive your consent for this lecture Fellowship and the article for the *Proceedings*.

With warm regards,

Yours sincerely,

**(Ashutosh Sharma)**

Dr Veerendra Kumar Sharma  
Scientific Officer (G)  
Solid State Physics Division  
Bhabha Atomic Research Centre  
Mumbai-400085



**SOCIETY FOR MATERIALS CHEMISTRY**



**SMC Bronze Medal - 2023**

*conferred on*

**Dr. V. K. Sharma**

*BARC, Mumbai*

for his outstanding contribution to  
Materials Chemistry

**October 2023**

*A. K. Yadav*  
**President**



# भारतीय राष्ट्रीय अभियांत्रिकी अकादमी Indian National Academy of Engineering

Ground Floor, Block-II, Technology Bhavan, New Mehrauli Road, New Delhi- 110016

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दूरभाष/Phone: (91) 011-26582475, ई-मेल/Email: inaehq@inae.in, वैबसाइट/Website: www.inae.in

प्रोफेसर इंद्रनील मान्ना/ **Professor Indranil Manna**

FNAE, FTWAS, FNA, FNASc, FASc, MAPAM, FIE(I), FIIM, FEMSI, FAScT, PRS, DSc(he) PhD

अध्यक्ष/ **President**

*Vice-Chancellor,*

**Birla Institute of Technology (BIT) Mesra**

**Ranchi, Jharkhand, 835215, India**

Tel.: 0651-2275402, Fax 0651- 2275401

Email: imanna@metal.iitkgp.ac.in

im\_kgp@yahoo.co.in

**Ref : INAE/402**

**August 25, 2023**

**Subject: Election to Fellowship of INAE effective from November 1, 2023**

Dear Dr Gopalakrishnan,

I have great pleasure to inform that you have been elected a Fellow of the Indian National Academy of Engineering (INAE) by the Governing Council at its 148<sup>th</sup> meeting held on August 18, 2023, in recognition of your distinguished contributions to the profession of "Engineering and Technology". Your Fellowship will be **effective from November 1, 2023**. Please accept our **heartiest CONGRATULATIONS!** In this connection, I also thank the esteemed Fellows who nominated you.

The Academy carries out its objectives through active involvement and contribution of its Fellows. I sincerely believe that your enthusiastic participation, useful contribution and intellectual input will greatly enhance the reputation and growth of the Academy and help creating a more meaningful impact on the engineering community at national and international levels. For a glimpse on the role, functions and activities of INAE, I invite you to visit INAE website <https://www.inae.in/>

I may add that INAE confers the Fellowship in its Annual Convention being held every year in the month of December. The INAE Annual Convention 2023 will be held on December 9-11, 2023 at Siksha 'O' Anusandhan University, Bhubaneswar. Mr. TV Narendran, FNAE, CEO and Managing Director, Tata Steel Limited, Jamshedpur and Mumbai has kindly consented to be the Chief Guest of the event.

You are cordially invited to attend the INAE Annual Convention 2023 wherein you would be formally inducted into the Academy and presented the Fellowship Certificate in the Induction Ceremony as a part of the Annual General Meeting of Fellows during the Convention.

The INAE office will soon contact you to seek relevant inputs from you and provide relevant information about the Annual Convention.

With warm and personal regards,

Yours sincerely,

(Indranil Manna)

Dr Sugilal Gopalakrishnan,  
Outstanding Scientist and Head,  
Fuel Reprocessing Division, BARC,  
Mumbai & Senior Professor,  
HBNI, Mumbai





# INDIAN PHYSICS ASSOCIATION

## ASWINI KUMAR RATH MEMORIAL AWARD IN NUCLEAR PHYSICS

for the year

**2024**


is conferred on

**Dr. Debasish Mondal**  
Variable Energy Cyclotron Centre

in recognition of

*notable contribution in the field of low energy  
experimental nuclear physics related to study of statistical  
and thermodynamic properties of atomic nuclei.*

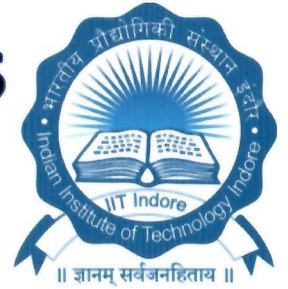
Mumbai  
November 14, 2024

  
S.M. Yusuf  
(President)



# DAE SYMPOSIUM ON NUCLEAR PHYSICS (SNP-2023)

Indian Institute of Technology Indore, Madhya Pradesh, India  
December 9-13, 2023



The *Young Achiever Award 2023 (YAA-2023)*

is presented to

*Dr. Debasish Mondal*

of Variable Energy Cyclotron Centre, Kolkata  
for his excellent contribution in the field of

*"Exploring the properties of hot and fast-rotating nuclei using  
the decay from the Isovector giant dipole resonance"*

*Sarat*  
**Secretary**  
S. K. Pandit

*Anurag Shrivastava*  
**Convener**  
A. Shrivastava

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### RC-29: Social Transformation & Development

**Convenor:** Sampat Kale (2024-2025)

**Co-Convenor:** Vinita Lal

-----  
Tata Institute of Social Sciences,  
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Tuljapur District Osmanabad,  
Maharashtra, India

Email: [iss29socialtransformation@gmail.com](mailto:iss29socialtransformation@gmail.com)

Mobile : [8999744448](tel:8999744448)

### RC-28: Sociology of Everyday Life

**Convenor:** Sanjay Roy (2022-2023, 2024-2025)

**Co-Convenor:** Pranaya Kumar Swain

-----  
Professor,  
Department of Sociology  
North Bengal University,  
Dist.Darjeeling.

Email: [iss28everydaylife20@gmail.com](mailto:iss28everydaylife20@gmail.com)

Mobile : [9434875610](tel:9434875610) / [9609486579](tel:9609486579)

### RC-27: Sociology of Care

**Convenor:** Soumyajit Patra (2022-2023, 'Mother and Motherhood'changed name, 'Sociology of Care' (2024-2025))

**Co-Convenor:**

-----  
Professor,  
Department of Sociology  
SKB University,  
West Bengal.



ISSN: 2581-5741

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Dr Muhammed Sihas KM	IOE Post-Doctoral Fellow, Department of Sociology, University of Hyderabad, Hyderabad, Telangana. <i>mshihaskm@gmail.com</i>

*Address all editorial correspondence to:*

**Prof. Nagaraju Gundemeda,**

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Hyderabad-500046, Telangana, India,  
Email address: [explorationsiss@gmail.com](mailto:explorationsiss@gmail.com). Phone-040-23133263



## **E-journal of the Indian Sociological Society (ISS)**

### **About the e-journal**

*Explorations* is a double-blind peer reviewed open access journal. It is published twice a year: (April, August and December). Copyright is retained by the Indian Sociological Society, New Delhi, and the author on submission. All rights reserved. Except for citations in scholarly works, no part of the journal may be reproduced in any form without permission.

### **Vision**

Sociology as a discipline, like other social sciences, is passing through a transition. The developments in the contemporary world have opened up new areas of enquiry expanding the traditional frontiers of the discipline. Many sociologists are engaged in these new and emerging areas of study which is often informed by a multidisciplinary approach. Sociologists in India are also in increasing numbers engaged in such research (in areas which includes environment, minority rights, gender studies, sexuality studies, etc. to name a few). However, they have an additional challenge posed by the need to integrate the enormous regional, social and cultural multiplicities of India into the Indian sociological canvas. These diversities, especially those of the socially marginal and geographically peripheral societies, have remained somewhat out of the radar of Indian sociology. However, emerging discourses on caste, tribe, ethnicity, religion, region, nation and nation building in contemporary India have created new consciousness and imperatives to integrate the marginal regions and societies into the broad canvas of India Sociology. The journal is sensitive to such discourses and aims to encourage scholarly publications on such identities and regions. While the central focus of the journal is the societies, histories and cultures of India, it also welcomes publications of comparative studies with other countries as well as on societies and cultures of South Asia.

## **Guidelines for Authors**

The journal encourages data based (both primary and secondary) quality research publications using sociological concepts and theories. It is open to both quantitative and qualitative works. Besides regular research papers, the journal includes interviews, commentaries, debates, and discussions. While the journal encourages research publication of young scholars, it also welcomes contributions from senior scholars. The journal carries interviews/dialogues with eminent sociologists and social scientists who share their own experiences of teaching and research. The idea is to make the journal a platform for the overall professional development of the practitioners – research scholars, teachers and researchers – of sociology, especially those without adequate access to the resources required for the purpose.

The journal follows a rigorous peer review policy for all research and review articles submitted to the journal. Other contributions (commentaries, debates and interviews) will also undergo editorial vetting. Submissions to the journal must have sociological value and interest for social scientists across India and beyond, both from pure, scholarly research and applied dimensions.

### **Categories of contributions:**

The journal welcomes submissions in the following categories:

- **Articles** (6000-8000 words)

We invite contributions in the form of feature articles from sociologists. The article can be both empirical and theoretical and deal with issues that will be of interest to sociologists practicing in a variety of locales – universities, research institutes, NGOS, etc.

*All articles must be accompanied by an abstract of a maximum of 150 words with 4-5 keywords.*

- **Research in progress** (3500-4000 words)

Under this section, we publish research work, field-notes and ethnographic accounts which are in progress. Themes are open-ended and therefore, we welcome all kinds of research in progress.



- **Reflexive essays** (2500-3000 words)

Under this category, we publish autobiographical and biographical notes of sociologists, experiments on teaching and pedagogy, etc.

- **Conversations** (8000-10000 words)

We publish interviews/conversations with eminent sociologists/social scientists focusing on their contributions to scholarship and teaching. The contributors have to submit the audio/video recording of the interviews along with the transcriptions.

- **Commentaries** (2000-2500 words)

Contributions in the form of commentaries on any topic of relevance to national as well as international community of sociologists are published under this section.

- **Book Review** (1000-1500 words)

Under this category, we welcome reviews of recently published books which are of sociological relevance.

- **Discussion Forum** (1200-2000 words)

This section publishes responses to the publications in the journal as well as other relevant issues of sociological interest.

- **Letters to the Editor** (maximum 200 words)

The journal provides space to its readers to express their opinions in the form of brief comments and insights as letters to the editor.

## **Guidelines for submission:**

### **1. Structure**

The manuscript should be structured as follows:

- Cover page, showing title of the paper, name of author, author's affiliation and institutional address with pin code, email id and a 100–150 word abstract. Authors' names and references should not be used in the text in order to keep authors' anonymity (e.g., 'as the author has written elsewhere' should be

avoided). In case there are two or more authors, then corresponding author's name and address details must be clearly specified on the first page itself.

- The contributors should also provide 4–5 keywords for online searchability.
- Text should start on a new page, and must not contain the names of authors.
- References should come at the end of the manuscript.
- Tables and figures should be provided in editable format and should be referred to in the text by number separately (e.g., Table 1) not by placement (e.g., see Table below). They should each be submitted on a separate page following the article, numbered and arranged as per their references in the text. They will be inserted in the final text as indicated by the author. Source citations with tables and figures are required irrespective of whether or not they require permissions.
- Figures, including maps, graphs and drawings, should not be larger than page size. They should be numbered and arranged as per their references in the text. All photographs and scanned images should have a resolution of a minimum 300 dpi and 1500 pixels and their format should be TIFF or JPEG. Permission to reprint should be obtained for copyright protected photographs/images. Even for photographs/images available in the public domain, it should be clearly ascertained whether or not their reproduction requires permission for purposes of publishing (The Publisher is a profit-making endeavour). All photographs/scanned images should be provided separately in a folder along with the main article.
- Mathematical formulae, methodological details, etc. should be given separately as an appendix, unless their mention in the main body of the text becomes essential.

## **2. Language**

- The language and spellings used should be British (U.K.), with 's' variant, e.g., globalisation instead of globalization, labour instead of labor. For non-English and uncommon words and phrases, use italics only for the first time. Meaning of non-English words should be given in parenthesis just after the word when it is used for the first time.
- Articles should use non-sexist and non-racist language.

- Spell out numbers from one to ninety nine, 100 and above to remain in figures. However, for exact measurement (e.g., *China's GDP growth rate 9.8 per cent*) use numbers. Very large round numbers, especially sums of money, may be expressed by a mixture of numerals and spelled-out numbers (*India's population 1.2 billion*). Follow thousand, million, billion number metric system instead of lakhs and crores.
- Single quotes should be used throughout. Double quote marks are to be used within single quotes. Spellings of words in quotations should not be changed. Quotations of words or more should be separated from the text.
- Notes should be numbered serially and presented at the end of the article. Notes must contain more than a mere reference.
- Use 'per cent' instead of % in the text. In tables, graphs etc, % can be used. Use '20th century', '1990s'.
- We do not encourage frequent use of capital letters. They should be used selectively and consistently. Only the first word of title and subtitle should start with capitals. Although proper names are capitalised, many words derived from or associated with proper names, as well as the names of significant offices are lowercased. While the names of ethnic, religious and national groups are capitalised (*the Muslims, the Gorkhas, the Germans*), designations based loosely on colour (*black people*) and terms denoting socio-economic classes or groups (*the middle class, the dalits, the adivasis, the african-american*) are lowercased. All caste, tribe and community names (*the Santhals, the Jatavs*) are to be capitalised but generic terms (*the kayasthas*) are to be lower cased. Civil, military, religious, and professional titles (*the president*) and institutions (*the parliament, the united nations*) are to be put in lower case, but names of organisations (*the Labour Party, the Students Federation of India*) are to be capitalised. The names of political tendencies (*the marxists, the socialists*) should remain in lower case.
- Abbreviations are spelled out at first occurrence. Very common ones (*US, GDP, BBC*) need not be spelled out. Other commonly used abbreviations (*am, pm, cm, kg, ha*) can be used in lower case, without spaces.

### **3. Citations and References**

Guidelines specified in the *Publication Manual of the American Psychological Association* (6th edition, 2009) must be followed.

- References: A consolidated listing of all books, articles, essays, theses and documents referred to (including any referred to in the tables, graphs and maps) should be provided at the end of the article.
- Arrangement of references: Reference list entries should be alphabetized by the last name of the first author of each work. In each reference, authors' names are inverted (last name first) for all authors (first, second or subsequent ones); give the last name and initials for all authors of a particular work unless the work has more than six authors. If the work has more than six authors, list the first six authors and then use et al. after the sixth author's name.
- Chronological listing: If more than one work by the same author(s) is cited, they should be listed in order by the year of publication, starting with the earliest.
- Sentence case: In references, sentence case (only the first word and any proper noun are capitalized – e.g., 'The software industry in India') is to be followed for the titles of papers, books, articles, etc.
- Title case: In references, Journal titles are put in title case (first letter of all words except articles and conjunctions are capitalized – e.g., Journal of Business Ethics).
- Italicize: Book and Journal titles are to be italicized.
- Citations and References should adhere to the guidelines below (based on the *Publication Manual of the American Psychological Association*, 6th edition). Some examples are given below:

**In-text citations:**

- One work by one author: (Kessler, 2003, p. 50) or 'Kessler (2003) found that among the epidemiological samples.'
- One work by two authors: (Joreskog & Sorborn, 2007, pp. 50–66) or Joreskog and Sorborn (2007) found that..
- One work by three or more authors: (Basu, Banerji & Chatterjee, 2007) [first instance]; Basu et al. (2007) [Second instance onwards].
- Groups or organizations or universities: (University of Pittsburgh, 2007) or University of Pittsburgh (2007).
- Authors with same surname: Include the initials in all the in-text citations even if the year of publication differs, e.g., (I. Light, 2006; M.A. Light, 2008).



- Works with no identified author or anonymous author: Cite the first few words of the reference entry (title) and then the year, e.g., ('Study finds', 2007); (Anonymous, 1998).
- If abbreviations are provided, then the style to be followed is: (National Institute of Mental Health [NIMH], 2003) in the first citation and (NIMH, 2003) in subsequent citations.
- Two or more works by same author: (Gogel, 1990, 2006, in press)
- Two or more works with different authors: (Gogel, 1996; Miller, 1999)
- Secondary sources: Allport's diary (as cited in Nicholson, 2003).
- Films: (Name of the Director, Year of release)

### **References:**

- Books:  
Patnaik, U. (2007). *The republic of hunger*. New Delhi: Three Essays Collective.
- Edited Books:  
Amanor, K. S., & Moyo, S. (Eds.) (2008). *Land and sustainable development in Africa*. London/New York: Zed Books.
- Translated books:  
Amin, S. (1976). *Unequal development* (trans. B. Pearce). London and New York: Monthly Review Press.
- Book chapters:  
Chachra, S. (2011). The national question in India. In S. Moyo and P. Yeros (Eds), *Reclaiming the nation* (pp. 67–78). London and New York: Pluto Press.
- Journal articles: Foster, J. B. (2010). The financialization of accumulation. *Monthly Review*, 62(5), 1-17.
- Newsletter article, no author:  
Six sites meet for comprehensive anti-gang initiative conference. (2006, November/December). *OOJDP News @ a Glance*.  
Retrieved from <http://www.ncrjs.gov/html>  
[Please do not place a period at the end of an online reference.]
- Newspaper article:  
Schwartz, J. (1993, September 30). Obesity affects economic, social status. *The Washington Post*, pp. A1, A4.
- In-press article:  
Briscoe, R. (in press). Egocentric spatial representation in action and perception. *Philosophy and Phenomenological Research*.  
Retrieved from <http://cogprints.org/5780/1/ECSRAP.F07.pdf>

Non-English reference book, title translated into English:

Real Academia Espanola. (2001). *Diccionario de la lenguaespanola* [Dictionary of the Spanish Language] (22<sup>nd</sup> ed.). Madrid, Spain: Author.

- Special issue or section in a journal:  
Haney, C., & Wiener, R. L. (Eds.) (2004). Capital punishment in the United States [Special Issue]. *Psychology, Public Policy, and Law*, 10(4), 1-17.

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Explorations (ISS e-journal), Department of Sociology,

University of Hyderabad, Hyderabad-500046, Telangana, India

Email address: [explorationsiss@gmail.com](mailto:explorationsiss@gmail.com)



# ODISHA BIGYAN ACADEMY



SCIENCE & TECHNOLOGY DEPARTMENT  
GOVERNMENT OF ODISHA  
BHUBANESWAR

## ODISHA YOUNG SCIENTISTS AWARD

*The Odisha Bigyan Academy  
has the honour of conferring the  
"Odisha Young Scientists Award"*

*on*

**DR. BISHNU PRASAD BISWAL**

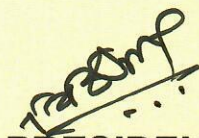
*for the year 2021*

*in recognition of*

*his*

*original and creative research*

*outside the State*

  
PRESIDENT

  
CHIEF GUEST





# ODISHA BIGYAN ACADEMY

(ODISHA SCIENCE ACADEMY)

Science & Technology Department, Government of Odisha, India

**Prof. B. B. Mishra**  
**PRESIDENT**

D.O. No.564/OBA., dated the 5<sup>th</sup> December, 2023

Dear Dr. Biswal

It gives me immense pleasure to inform you that you have been selected for the “**Odisha Young Scientist Award**” for the **year 2021** in the category of “**Odia Scientist working outside the State of Odisha**” in recognition of your outstanding contribution in the field of science and technology.

Heartiest congratulations on behalf of the Odisha Bigyan Academy for being honoured with this prestigious award.

The award will be conferred on you in a special state level ceremony on 9<sup>th</sup> January 2024 . The detail of program will be intimated to you shortly.

Kindly send a passport size colour photograph and updated brief C.V. (both English and Odia) before 12<sup>th</sup> December, 2023 in the prescribed format .

With regards,

Yours sincerely,

(Bibhuti Bhusan Mishra)

**Dr. Bishnu Prasad Biswal,**  
Asst. Professor,  
School of Chemical Sciences,  
NISER, Bhubaneswar,  
Jatni, Khurda - 752050



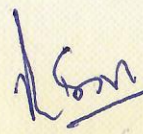
# ORISSA CHEMICAL SOCIETY



Estd. 1985

## CERTIFICATE OF EXCELLENCE

*This is to certify that **Dr. Bisnu Prasad Biswal** of NISER, BBSR is awarded "Prof. R. C. Tripathy Memorial Award (Outside the State, Odisha)" for the year 2023 in the **37<sup>th</sup> Annual Conference** held at Ravenshaw University, College Square, Cuttack, Odisha during 5-6 January 2024.*



PRESIDENT



SECRETARY

5<sup>th</sup> January 2024





THE PRESIDENT

**Letter of Appointment**


It is with great pleasure that I herewith appoint

**Dr. Bishnu Prasad BISWAL**

Head of the Partner Group of the Max Planck Institute of Microstructure Physics at the National Institute of Science Education and Research Bhubaneswar, India. The scientific work of Dr. Biswal has already gained international recognition and Dr. Biswal shall continue on this successful path as Head of the Max Planck Partner Group.

The Max Planck Society and especially the Max Planck Institute of Microstructure Physics will continually support Dr. Biswal in developing the Max Planck Partner Group into an active research group of the Indian and international scientific communities.

Munich, February 2024



Professor Dr. Patrick Cramer  
President

# MAHARASHTRA ACADEMY OF SCIENCES



*This is to certify that Dr. Santra Satyaranjan has been elected as a Fellow of Maharashtra Academy of Sciences in the year 2023 for his significant contributions in the field of Physical Sciences.*

**Prof. G. D. Yadav**  
President

**Date:** December 18, 2023  
**Fellowship No.:** ALF1181

**Dr. Bharat B. Kale**  
Secretary

Chem  
Phys  
Chem

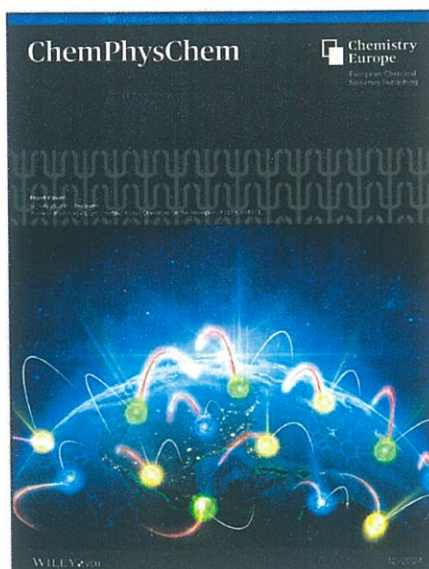
Best Oral Presentation  
Award

International Conference on  
Energy and Environmental Materials 2024  
11-13 July 2024, Indore, India

Awarded to

Dr. Amneen Ana Hussain, IPR Gandhinagar

This Tango Reward Link worth 3000 INR  
is sponsored by



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Your prize will be sent in the coming weeks from  
noreply@tangocard.com to the e-mail address you have provided to  
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spam folder or contact the Editorial Office.



*Parvez Guzdar*



*Young Scientist*

*Award*

*2023*

The Parvez Guzdar Young Scientist Award for the year 2023 is awarded to **Dr. Amreen**, from the **Institute for Plasma Research, Gandhinagar (Gujarat)**, in recognition of her outstanding work in the areas of “**Development of Hybrid Material Based Optoelectronic Devices using Plasma Technologies**”.



President, Plasma Science Society of India

08-Dec-2023  
UPES, Dehradun

General Secretary, Plasma Science Society of India

*Award Instituted by the Parvez Guzdar Memorial Fund*



# INDIAN CHEMICAL SOCIETY

## CERTIFICATE OF FELLOWSHIP

This is to certify that

**Dr. Santosh Kumar Gupta, Scientific Officer(F), Bhabha Atomic Research Centre, Radiochemistry Division, RC&I Group, Trombay, Mumbai, Maharashtra**

**ORCID ID: 0000-0002-1178-0159**

**was elected as Life Fellow by the Council in its meeting held  
on September 26, 2023**

No. **2023-LF/8666**

**Professor Sudip Kumar Das**  
Honorary Secretary

**Professor G.D. Yadav**  
President



# MAHARASHTRA ACADEMY OF SCIENCES



*This is to certify that Dr. Gupta Santosh Kumar has been elected as a Fellow of Maharashtra Academy of Sciences in the year 2023 for his significant contributions in the field of Chemical Sciences.*

**Prof. G. D. Yadav**  
President

**Date:** December 18, 2023  
**Fellowship No.:** BLF1172

**Dr. Bharat B. Kale**  
Secretary

Founded 1841  
Incorporated by Royal Charter 1848  
Patron Her Majesty the Queen



THIS IS TO CERTIFY THAT

***Santosh Kumar Gupta***

HAS BEEN ADMITTED AS A

FELLOW

OF

THE ROYAL SOCIETY OF CHEMISTRY

and is entitled to use the designatory letters FRSC

President

Handwritten signature of Gill Reid in black ink.

Chief Executive

Handwritten signature of Helen Fair in black ink.

Date of admission

**14 November 2023**

Membership Number

**757072**





**GLOBAL  
YOUNG  
ACADEMY**

This is to certify that

**Dr Santosh Kumar Gupta**

has been appointed as a member of the  
Global Young Academy  
as of

**2024**

for a period of 5 years.

Dr Priscilla Kolibea Mante

Ghana  
Co - Chair

Dr Felix Moronta Barrios

Italy  
Co - Chair

Indian Aerosol Science and Technology Association

IASTA

National Conference 2023



## AWARD CERTIFICATE

This is to certify that

*Amit Kumar*

has been awarded

First / Second / Third prize for  
Platform / Lightning / Poster presentation  
in IASTA National Conference

held at Vivanta, Navi Mumbai, during 12-14, December 2023 .

A handwritten signature in black ink, appearing to read "S N Tripathi", is positioned above the official title of the Secretary.

Secretary,

(Dr S N Tripathi) Indian Aerosol Science &  
Convener, IASTA 2023 Technology Association

14 December 2023





# Certificate of Completion

*The Fulbright Foreign Scholarship Board  
and The Bureau of Educational and Cultural Affairs  
of the*

*United States Department of State  
award this certificate to*

**Ashish Kumar Srivastava**

*in recognition of successful completion of the*

# Fulbright Scholarship Program

July 2024  
Washington, DC

Chair, Fulbright Foreign  
Scholarship Board

Assistant Secretary of State  
Bureau of Educational and  
Cultural Affairs



**Annual Report**  
and  
Audited Statement  
of Accounts  
**2023– 24**



**Institute of Physics**

**Bhubaneswar**





## 1.7 Awards & Recognitions (Faculty Members)

### Prof. K. K. Nanda

1. Featured in 2% of Scientist in Nanoscience & Nanotechnology (Applied Physics) category published by ***Stanford University in 2020-2023.***
2. Featured in 0.05% of Science in All Fields published by ScholarGPS™, ***Meta Analytics LLC in 2024 (an American company based in California)***
3. Ranked 145 in the field of Materials Science in India and 9344 worldwide published **Research.com team in 2024.**
4. Professor N N Dasgupta Memorial Award 2023  
**Indian Photobiology Society.**

### Prof. Shikha Verma, Ex – Professor

1. Part of National/ international Committees/Boards:  
**DST, ANRF, SERB**
2. Core Member SERB- Program Advisory Committee (PAC) on Physics-I  
**(Condensed Matter Physics & Material Science) (Since 2021)**
3. Core Member - SERB Expert Committee on Start-up Research Grant (SRG) and National Postdoctoral (NPDF)  
**Fellowship Schemes (since 2021)**
4. Member of Review Committee  
**SERB POWER- grant (since 2021)**
5. Member of Search cum Selection Committee  
**SERB POWER Fellow (since 2022)**
6. Member of Expert Committee  
**SERB Women Excellence Award WEA (since 2022)**
7. Member Expert Committee  
**DST Inspire Fellowship Physical Sci. level-II (since 2022)**
8. Inter University Accelerator Center (IUAC)
  - i. Chairperson Accelerator User Committee (AUC), IUAC, N. Delhi (since 2021)
  - ii. Member Governing Council, IUAC, N. Delhi (since 2021)



- iii. Member Governing Board, IUAC, N. Delhi (since 2021)
- iv. Member Finance Committee, IUAC, N. Delhi (since 2021)
9. Editorial Boards
  - i. Editorial board member of Journal PRAMANA (since 2022)
  - ii. Review Editorial Board member of International Journal 'Frontier' (since 2015)
10. Other committees
  - i. Chairperson: Gender in Physics-Working Group (GIPWG-CMP) of IPA (since 2022)
  - ii. Member Selection-committee for Indian Physics Association (IPA) awards (Murali M. Chugani Memorial Award & N.S. Satya Murthy Memorial Award)(since 2022)
  - iii. Executive Committee Member (Joint Secretary-East) Ion Beam Society of India (2015- 2023)

### **Tapobrata Som**

1. Member, Review Committee of DST, Govt. of India for Solar Energy Hub established at Indian Institute of Engineering Science and Technology (IEST), Shibpur (Continuing)
2. Vice-President (Eastern India), Ion Beam Society of India (Nov. 2023 – till date)

### **Aruna Kumar Nayak**

1. Appointed as Trigger Officer (L2 convener position)  
Physics coordination of CMS collaboration for Sep. 2024 – Aug. 2026.
2. *Received CERN Corresponding Associateship for 1st May. – 31st August, 2023.*
3. Sanu Varghese (student of Dr. A. K. Nayak), Received CMS Award 2022, during CMS week June-2023, for his outstanding contributions to High level trigger rate studies in CMS experiment.

### **Debashis Choudhury**

1. Receive a Visiting Professorship from CY Cergy Paris University, Paris, France, and visited them from 14 May to 27 May 2023.
2. Awarded an Associateship of the International Centre for Theoretical Sciences (ICTS-TIFR) for three years from January 2023 to December 2025.
3. Honor of being an invited speaker at the esteemed international workshop “New Perspectives in Active Systems” (Active23) held at the Max-Planck Institute for the Physics of Complex Systems (MPIPKS), Dresden, Germany (24-28 April 2023).



4. The Max-Planck Institute for the Physics of Complex Systems (MPIPKS) in Dresden, Germany, graciously hosted as a Visiting Scientist from 1 April to 13 May 2023.

### **Prof. Sanjib K Agarwalla**

- Rajib Goyal Prize for the year 2021-22 in Physical Sciences
- Felicitated by the Goyal Prizes Committee, Kurukshetra University One Medal, Citation, Rs.1.00 Lakh

### **1.8 AWARDS / HONOURS AND RECOGNITIONS SCHOLARS**

- Sameer Kumar Mallik, Scholar of Prof. Satyaprakash Sahoo was awarded the best oral presentation at the International Conference on Low-Energy Digital Devices and Computing (ICLED-2023), which was held on June 29-July 01, 2023, at NUS in Singapore.
- Ms. Sandhyarani Sahoo, a scholar of Prof. Satyaprakash Sahoo won the best poster award at the International Conference on Thin Film and Nanotechnology (ITCN-KCL 2023), which was held from July 06-08, 2023 at IIT Madras, Chennai.

### **1.9 Popular Talks Delivered**

### **1.10 Invited Talks / Lectures Delivered :**

### **Prof. J. Maharana, Ex- Professor of the Institute**

1. **Analyticity of Scattering Amplitudes for Compactified Field Theories.**  
Institute of Theoretical Physics, University of Amsterdam, Netherlands, October, 2023.
2. **Compactification of 5-dimensional field theory and analyticity of scattering amplitude**  
INFN Milan, Italy, October 2023.
3. **Proof of nonforward dispersion relation for Compactified field theory on a Circle**  
University of Michigan, Ann Arbor, Michigan USA, October 2023.
4. **Proof of Dispersion relation for scattering amplitude of a scalar field theory with Compact dimension.**  
Princeton University, November, 2023.

### **Prof. S. K. Patra**



## Awards & Honours

**Dr. John Philip** has been selected as an Editorial Board Member of Journal of Magnetism and Magnetic Materials of Elsevier Publishers.

**Dr. Arup Dasgupta** received Fellow of Indian Institute of Metals (IIM) for the year 2022.

**Dr. R. Mythili** received Fellow of Electron Microscopy of Society of India (EMSI) Award for the year 2022 under Materials

Science category

**Dr. Harish Chandra Dey**, received "Welding Science & Technology Award" from IIW-India, Chennai Branch.

**Dr. Sandip Kumar Dhara**, BoS Member Physics, SRM University, Chennai, Senior Member OPTICA (old OSA) (2022)

**Dr. R. Ramaseshan**, received "Fellow Chennai Academy of Sciences (FASC)" (2022)

**Mr. Choudhury Abinash Bhuyan**, received K. V. Rao Scientific Society Award, 'Best Research Award' (2023)

**Central Water Chilling Plant** received 1<sup>st</sup> Prize in Swatchh Bharat Pakhwada for Central Water Chilling Plant in Plant Category

## Best Paper Awards

**Dr. Amit Kumar, Ms. Usha Pujala, Shri E. Hemanth Rao, Dr. V. Subramanian, Shri. Sanjay Kumar Das, Dr. D. Ponraju, and Dr. B. Venkatraman** "Assessment of Fission Product and Sodium Aerosol Behavior in a closed chamber" **Vivanta, Navi Mumbai, during 12 -14 December 2023**

**Dr. T. Saravanan, M. Krishnamoorthy, S. Murugan, S. Satheesh Kumar, S. Surendar Kumar, B. S. Ramesh Babu, V. Praveen Kumar, Utpal Borah, Alka Kumari, G. Ramesh** "Experience in Manufacture and Leak Testing of Inlet Water Sub-Header for The Steam Generator of Fast Breeder Test Reactor" **National Welding Seminar (NWS) 2023**

**Shri Vivek K. Mishra, Saroj K. Panda, Biswanath Sen, Dipti Samantray** "Effect of non-condensable gas on thermal characteristics of thermosyphon relevant to nuclear fuel storage vault" **CHEMCON 2023 oral presentation during December 27-30 in Kolkata**

## Best Poster Awards

- **Ms. B.R. Vaishnavi Krupa** received EMSI-2023 conference – Best poster consolation price
- **Dr. Arup Dasgupta** received "The above and beyond appreciation for Editorial Leadership" in 2022 from Springer.
- **Shri Shailesh Joshi, Ms. Madhusmita Panda, Dr. O. Annalaskhmi, C. Dr. Venkata Srinivas and B. Venkatraman** received the second prize in the best poster award at the 6<sup>th</sup> Asian and Oceanic Congress on Radiation Protection (AOCRP6) international conference held at Mumbai during February 7-11, 2023 for the paper titled "Uranium based Metal Organic Framework as OSL Dosimeter".
- **Shri. Mantosh Mandal** secured the 'Best Poster Presentation' award at the 4<sup>th</sup> Heat Treatment and Surface Engineering (HTSE-2023) conference, held at Chennai on 28 -30 September 2023.



सत्यमेव जयते

Government of India  
Department of Atomic Energy

# VECC Annual Progress Report 2023-24



Variable Energy Cyclotron Centre  
Kolkata

## 7.6 Awards & Homours

1. Shri S. Dasgupta received Best Poster award from Royal Society of Chemistry for the “*Quantification of Boron in Borated Materials for Varied Applications using Charged Particle Activation Analysis*” paper in CTAC-2023.
2. Ms. Sneha Das, HBNI PhD student at VECC, has received “one of the best poster presentation award” at DAE Symposium on Nuclear Physics 2023, held at IIT Indore, during December 9-13, 2023, for the poster presentation of her contributory paper entitled “*In-beam spectroscopic study of  $^{209}\text{At}$* ”.
3. Dr. Vikas Singhal has been selected as one of the winners of the CBM Best Thesis Award for the year 2022 and 2023 for his PhD Thesis “*Development and implementation of first level event selection process on heterogeneous systems for high energy heavy ion collision experiments*”, under aegis of the HBNI, India. His contribution for the development of a realistic time-based simulation framework for the Muon Chamber System (MuCh) of the CBM experiment is significant for the development of a trigger algorithm for MuCh and the evaluation of its performance in various heterogeneous computing platforms including CPU, GPU and hybrid platform.
4. Dr. Subhasis Chattopadhyay has been nominated as a member of the prestigious International Joint Scientific Council (JSC) of GSI and FAIR at Darmstadt, Germany. The JSC advises the Management of FAIR (the Facility for Antiproton and Ion Research under construction at the GSI Helmholtz Centre for Heavy Ion Research at Darmstadt, Germany) and of GSI on all scientific matters. FAIR is the largest upcoming International facility and India is the 3rd largest contribution in construction of this facility. VECC has been taking a lead role in several aspects of this project i.e. accelerator components, participation in the CBM and NUSTAR experiments.





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## Academic Report (2023-24)

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Harish - Chandra Research Institute  
Chhatnag Road, Jhunsi  
Prayagraj - 211019, India

6. *Quantum Many-body systems through the lens of quantum information theory*, IIT Kharagpur, June 2023.
7. *Quantum Computation and Information: Reshaping the future of science and technology*, GITAM University Bengaluru campus, India, July, 2023.
8. *Quantum Networks*, Workshop on 24th May 2023 IUAC, India, May 2023.

### **Academic recognition/Awards:**

1. G D Birla Award, KK Birla Foundation, February 2024.

### **Other Activities:**

1. Taught quantum mechanics course during Aug-Dec semester. Taught quantum information and computation -I course.
2. Serving as the convenors of the medical committee, Internal complaint committee (ICC) and women's grievances at HRI.
3. Serving as referees in national and international journals.
4. Serving as members of the physics graduate committee, and Guest House / Pantry / Student Mess/housing committee.
5. Serving as editorial board members of J. Phys A and Pramana.
6. Mentors of master thesis of Shivansh Singh (IISER Mohali) and Aashay Pandharpatte (IISER Pune), several MSc, visiting and PhD students at HRI.
7. Served as a member of the Organizing committee, QIPA-2023.



11. Dr. S. K. Dhara, Dr. K. K. Madapu (MSG, IGCAR), Dr. S. N. Potty, Mr. I Packia Selvam, Mr. V. G. Sajeesh and Mr. K. Sumesh (C-MET), “Cost-Effective Metal Nitride Planar Films for Plasmonic Applications in Visible Region,” Indian Patent No. 202421026443 dated March 30, 2024.

- **Recognitions, Awards and Honours Received by HBNI Faculty Members**

1. Prof. U. Kamachi Mudali, VC, HBNI has been honoured with Lifetime Achievement Award by Ministry of Steel, Government of India at the National Metallurgists Awards 2023. He has also been awarded Gold Medal of the Society of Materials Chemistry (SMC), India.
2. Prof. A. K. Tyagi, BARC, has been elected as a Fellow of Indian National Science Academy and The World Academy of Sciences (TWAS). He has been awarded with J C Bose Fellowship by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), India and received MRSI distinguished Scientist of the year award for the year 2023, D N Agarwal Memorial Lecture Award from Indian Ceramics Society and Gold Medal from Chirantan Rasayan Society.
3. Prof. S. M. Yusuf, BARC has been awarded with J C Bose Fellowship by Science and Engineering Research Board, DST, India. He has also been elected as President of Indian Physics Association (IPA), member of the Council of NASI, President of the The Asia-Oceania Neutron Scattering Association (AONSA) for the period Jan 2024 – Dec 2025, President of the Materials Research Society of India (MRSI) Mumbai chapter. He has also become a member of the Government of India Quantum Mission Project Monitoring Committee (2023 onward).
4. Prof. H. N. Ghosh Director, NISER has been elected as a Fellow of the Indian National Academy of Engineering.
5. Prof. Bedangadas Mohanty has been awarded with the "Honorary D.Sc. degree" as a testament to his dedication to the nation and pioneering research, by the Governor of Odisha, who serves as the Chancellor of Sambalpur University.
6. Prof. Raghvendra Tewari, has been awarded G. D. Birla Gold Medal by Indian Institute of Metals.
7. Prof. Aditi Sen, HRI is the recipient of G. D. Birla Award for the year 2023.
8. Prof. Meena Mahajan, IMSc has been awarded J C Bose Fellowship by SERB, DST, India for the period 2024-2028.
9. Dr. Subhasis Chattopadhyay, VECC has been appointed as a member of the prestigious International Joint Scientific Council (JSC) of GSI and Facility for Antiproton and Ion Research (FAIR) at Darmstadt, Germany. FAIR is the largest upcoming International basic science facility and India is the 3rd largest contributor in the construction of this facility.





10. Prof Sandip Basu, RMC-BARC, HBNI, has been elected as a Fellow of the National Academy of Medical Sciences by the National Academy of Medical Sciences (NAMS), in recognition of his contributions in the field of Nuclear Medicine and towards the advancement of Medical Sciences.
11. Prof. Archana Sharma, BARC has been elected as a Fellow of National Academy of Sciences in the year 2023.
12. Prof. Sugilal Gopalakrishnan, BARC has been elected as a Fellow of Indian National Academy of Engineering.
13. Prof. Umasankari Kannan, BARC has been elected as a Fellow of Indian National Academy of Engineering.
14. Prof. Satyaranjan Santra, BARC has been elected as a Fellow, Maharashtra Academy of Sciences in December, 2023.
15. Dr. Dimple Dutta, BARC has been awarded with MRSI medal of Material Research Society of India. She also has been awarded with Silver Medal of the Society of Materials Chemistry (SMC) India. She has been elected as a member of Royal Society of Chemistry, UK. Her name features in the list of “75 women in Chemistry-She is” brought out by the Office of Principal Scientific Adviser to Government of India in association with Royal Society of Chemistry in 2023.
16. Dr. Nandita Maiti, BARC has been elected as a Fellow of Royal Society of Chemistry, Indian Chemical Society and Maharashtra Academy of Sciences.
17. Professor Tapas Das, BARC has been elected as a Fellow, Maharashtra Academy of Sciences.
18. Prof. Sangita D. Kumar features in the list of “75 Women in Chemistry-She is” brought out by the Office of the Principal Scientific Adviser, Government of India, in association with Royal Society of Chemistry in 2023.
19. Dr. Santosh Kumar Gupta, BARC has been elected as a Fellow of Royal Society of Chemistry, Maharashtra Academy of Sciences, and Indian Chemical Society.
20. Dr. Ashish Kumar Srivastava, BARC has been awarded with Fulbright-Nehru Academic and Professional Excellence Fellowship for 2023-24.
21. Dr. Mahesh Sundararajan, BARC has been awarded with Bronze medal of SMC, India. He has also received Tarun Datta Memorial Award for 2023 from IANCAS.
22. Dr. Dhruv Kumar Singh, BARC has received Vaswik Award.
23. Dr. Mayanak K. Gupta, BARC has been honored as INSA Associate Fellow 2023.
24. Dr. Prabhat K. Singh, BARC has been elected as a Fellow of Indian Chemical Society, Fellow of Maharashtra Academy of Sciences, Associate Fellow of Indian National Science Academy in the year 2023. He has also been honored as a Fellow of Royal



Society of Chemistry and elected as a Young Affiliate of the Third World Academy of Sciences. He has been inducted as a member of the National Committee for IUPAC.

25. Prof. Debanik Roy, BARC has received WAAH Science Laureate Awards 2023 for his project titled, "Development of an indigenously-designed feeding robotic arm for the Indian old age people: A synchronization of kinematics, machine vision, and 3D printing technology." He shares this award with Dr. Reena Trivedi and Shri Priyam Parikh.
26. Prof. B. N. Pandey, BARC delivered B. B. Singh Oration Award Lecture during 12<sup>th</sup> Biennial Conference of Indian Association of Hyperthermic Oncology and Medicine, held at HCG Hospital, Bengaluru during August 12-13, 2023.
27. Dr. Surender Kumar Sharma, BARC has received ESAB India Award-2023 for best paper across all categories for his paper titled, "Simulation and experimental analysis of magnetic pulse welding for joining of dissimilar materials," presented at the National Welding Seminar 2022-23 held at the Chennai Trade Centre, Nandambakkam, Chennai from 19-21 January 2023.
28. Prof. Punita Batra, HRI has been elected as a Fellow of National Academy of Sciences, India.
29. Dr. K. Prabakar, IGCAR has received Fulbright Nehru Academic and Professional Excellence fellowship" for the period August 2023-April 2024 to work at University at Buffalo, The State University of New York, USA.
30. Prof. Arun Kumar Nayak, IoP is appointed as Trigger Officer in the physics coordination of the CMS Collaboration for the period 2024-26.
31. Prof. Sanjib Kumar Agarwalla, IoP has been awarded Rajib Goyal Prize in Physical Sciences by Kurukshetra University.
32. Dr. Nirav I. Jamnapara, IPR has received a Fellow award from ASM International, USA, bearing the citation "For sustained contributions to the field of plasma materials processing, coatings and promotion of plasma technologies for use by industry and society" on October 17, 2023.
33. Prof. Promod Kumar Sharma, IPR has received Best Paper Award for his paper presented at National Conference on Emerging Trends in Vacuum Electronic Devices & Applications (VEDA-2023), held at Godavari Institute of Engineering & Technology (GIET), Rajahmundry during November 23-25, 2023.
34. Dr. Harshita Raj, IPR has received Best Poster Award for her poster entitled "Capacitor bank-based power supply used for shaped plasma operation in Aditya-U Tokamak: A milestone in Indian fusion program" presented at DAE-BRNS National Symposium on High Voltage- Energy Storage Capacitors and Applications, held at Mumbai, during June 22-24, 2023.
35. Prof. Himansu Sekhar Biswal, NISER has been honored as Fellow, Royal Society of Chemistry, UK.



36. Prof. Palok Aich, NISER is inducted as one of the Directors of MicrobioTx Health Pvt. Ltd.
37. Prof. Chidambaram Gunanathan, NISER has become Editorial Board Member of Journal of Chemical Sciences for the period Jan-2023 to Dec-2025. He is also the recipient of INSA Associate Fellow for the year 2024.
38. Dr. Subhadip Ghosh, NISER has received honor as Early Career Advisory Board Member of Chemical Physics Impact, an Elsevier Journal.
39. Dr. Pranay Kumar Swain, NISER has been inducted to the Editorial Board of Educational Research and Evaluation (Taylor and Francis) in October 2023.
40. Dr. Bishnu Prasad Biswal, NISER has been selected for the "Odisha Young Scientist Award" for the year 2021. He has also received Prof. R. C. Tripathi Memorial Award by OCS, Odisha. He has also become Head of Max Planck Partner Group at NISER Bhubaneswar, Max Planck Society, Germany.
41. Dr. Rekha Biswal, NISER has been selected for the "Odisha Young Scientist Award" for the year 2022.
42. Dr Manas Ranjan Sahoo, NISER is the recipient of INSA Associate Fellow for the year 2024.
43. Dr Sayantani Bhattacharyya, NISER is the recipient of INSA Young Scientist Associate for the year 2024.
44. Dr. Pankaj Chaturvedi, TMC has received Lifetime Achievement Award from Association of Maxillofacial Surgeons of India. He has also received Global Medicine Oration from American Head and Neck Society, and Best Poster Award at AHNS 11<sup>th</sup> International Conference on "Head and Neck Cancer" held at Montreal, Canada, during July 8-12, 2023.
45. Dr. Jyoti Anand Kode, ACTREC-TMC received scholarship from Women Graduates Union, Mumbai as partial support to attend and present work on "Immuno ectoenzyme CD26 expression in donor harvest and specific immune subsets correlate with clinical outcomes post ASCT: Cues for improved transplantation therapeutics" at the 18<sup>th</sup> International Congress of Immunology (IUIS Congress 2023), held at Cape Town, South Africa, during November 27 to December 2, 2023. She has also received recognition as "Outstanding Editorial Board Member" and was chosen as the cover person for the latest issue of World Journal of Stem Cells (WJSC) by Baishideng Publishing Group (BPG) Inc., USA, in August 2023.
46. Dr. Syed Khizer Hasan, ACTREC has been recognized by the Board of Directors of the Society of Hematologic Oncology (SOHO) as an "Ambassador" from India for year 2024.



## Scientific Outreach Activities conducted by NISER

The Khordha District Administration, Tata Memorial Center, and NISER co-hosted a Cancer Awareness Programme on February 4, 2023, at the Pathani Samanta Auditorium, NISER. Around 700 students from universities, colleges, and high schools participated in the programme. NISER hosted the First P. K. Parija Lecture in Life Sciences on March 24, 2023, thanks to a generous also endowment fund from the Prof. Pran Krushna Parija Charitable Trust (Odisha). Professor K. Vijay Raghavan, a DAE Homi Bhabha Chair Professor at National Centre for Biological Sciences, Bengaluru, delivered the lecture titled ‘The Brain in Development, Health and Illness.’”

## Awards and Academic Honors Received by HBNI Faculty

- ◆ Prof. Archana Sharma, BARC, has been elected as Governing Council member of INAE for the period 2023-24. She has also got recognition as “Torch Bearer of Indian Women in STEM” by IW3D Printing Organization and by Indian National Academy of Engineering (INAE)-Vigyan Prasar. Her name features in the book Women Engineers of India-Vol.1, 2023.
- ◆ Prof. J. Mohanty, BARC, has received IUPAC 2023 Distinguished Award for Women in Chemistry.
- ◆ Prof. Awadesh Kumar, BARC has been elected as a fellow of National Academy of Sciences (NASI).
- ◆ Dr. Dimple Dutta, BARC has been elected as a member of Royal Society of Chemistry, UK.
- ◆ Dr. J. Mohanty, BARC has been selected for the prestigious IUPAC Distinguished Woman award in Chemistry for the year 2023.
- ◆ Dr. Sugam Kumar, BARC, has been selected as an Associate of Indian Academy of Sciences (IASc), and Member of The National Academy of Sciences, India in 2022. He has also been awarded DAE-SSPS Young Achiever Award-2022.

- ◆ Dr. Sharmistha Dutta Choudhury, BARC, has been elected as a member of Maharashtra Academy of Sciences.
- ◆ Dr. Veerendra K. Sharma, BARC, received Indian Physics Association-Buti Foundation Award 2022.
- ◆ Dr. K. R. S. Chandrakumar, BARC, has been awarded CRSI Bronze Medal by Chemical Research Society of India.
- ◆ Prof. V. Sudarsan, BARC, has been awarded Society for materials Chemistry (SMC) Silver Medal.
- ◆ Dr. V. G. Gupta and Dr. B. P. Mandal and Dr. Jitendra Bahadur, BARC, have been awarded Society for materials Chemistry (SMC) bronze medal.
- ◆ Prof. S. M. Yusuf, BARC, has been elected as President of Indian Physics Association (IPA).
- ◆ Dr. Kinshuk Dasgupta, BARC has received UDCT Alumni Association (UAA)-ICT Distinguished Alumnus (Research) award, 2022.
- ◆ Dr. John Philip, IGCAR has been appointed as Associate Editor of Hybrid Advances of Elsevier Publishers.
- ◆ Prof. Arup Dasgupta, IGCAR, has been elected as a Fellow of IIM for the year 2022. He has also received “The Above and Beyond Appreciation for Editorial Leadership” award from Springer for the year 2022.
- ◆ Dr. B. B. Lahiri, IGCAR has received Young Achiever Award, at the DAE Symposium on Nuclear Physics 2022.
- ◆ Dr. M. Vasudevan, IGCAR has been selected as an Editorial Board Member of Journal, “Engineering Failure Analysis” published by Elsevier Publishers.
- ◆ Dr. Dirtha Sanyal, VECC has been elected as a Fellow of the Royal Society of Chemistry, UK.
- ◆ Dr. Pratap Roy, VECC, has been awarded the IPA "Aswini Kumar Rath Memorial Award" in Nuclear Physics for the year 2022. He has also received Young Achiever Award-2022 at DAE Symposium on Nuclear Physics 2022





- ◆ Dr. Sangram Bagh, SINP, has been elected as a Fellow of the Royal Society of Chemistry, UK.
- ◆ Dr. Sudip Chakraborty, HRI has been appointed as Editorial Advisory Board member of Energy Advances, a journal of Royal Society of Chemistry (RSC), UK.
- ◆ Dr. Kirtiman Ghosh, IoP, has received prestigious MATRICS (Mathematical Research Impact Centric Support) grant funded by the Science and Engineering Research Board (SERB) for the theoretical research and development of some specific new variants of Extra Dimensional Model.
- ◆ Dr. Shamik Banerjee, IoP, has been awarded the INSA Young Scientist Award 2022.
- ◆ Prof. Bedangadas Mohanty, NISER has been appointed as Deputy Spokesperson of the ALICE experiment at the Large Hadron Collider in CERN starting January 2023 for a period of three years. He has also been appointed as Editorial Board Member, Journal of Superconductivity and Novel Magnetism (Springer), Associate Editor, Frontiers of Physics in Condensed matter physics (Frontiers) and Associate Editor, Frontiers in Nanotechnology in the Section of Nano electronics (Frontiers).
- ◆ Dr. Himansu Sekhar Biswal, NISER, has become an affiliate member of the Royal Society of Chemistry, UK. He also holds the post of Member, Board of Studies, Chemistry, HBNI, Member Project Assessment Committee, DST, Govt. of Odisha, Member, Board of Studies, Chemistry, CET, Odisha, Member, Board of Studies, Chemistry, Berhampur University, Odisha.
- ◆ Dr. Ponneri C. Ravikumar, NISER, has been awarded with CRSI Bronze Medal, 2022. He is also recognized by American Chemical Society (ACS) as Top 3% highly cited ACS Author from India.
- ◆ Dr. Amaresh Jaiswal, NISER, has received Young Achiever Award, at the DAE Symposium
- ◆ Dr. Palok Aich, NISER, has been elected as Editor-in-Chief, Microenvironment and Micro ecology Research, TMR publishing Group, New Zealand and as Guest Editor, Special issue on Role of Microbial Metabolites in the Regulation of Host Immunity and Metabolism, Metabolites, MDPI, Basel, Switzerland.



- ◆ Dr. Asima Bhattacharyya, NISER has been appointed as an Editorial Board Member, Current Research in Physiology (Elsevier); Guest Editor, Frontiers in Microbiology (Frontiers); and Handling Editor, Frontiers in Oncology (Frontiers).
- ◆ Dr. Manjusha Dixit, NISER, has been appointed as Guest Editor, Journal of Visualized Experiments, Cambridge.
- ◆ Dr. Debasmita P. Alone, NISER has become a Co-opted Member, Expert committee in Life Sciences on SRG, NPDF & ECRA schemes in SERB, New Delhi, India.
- ◆ Dr. Sutanu Roy, NISER, has been selected as a CNRS visiting researcher, Laboratoire de mathématiques de Besançon, France.

## Awards Received by HBNI Students

- ◆ Shri Rajath Alexander, BARC has received Young Scientist in Material Science award by Indian Science Congress Association for his paper titled, “Synthesis of three-dimensional self-assembled carbon nanotube aerogel and its application as a high-performance virus filter,” in January 2023.
- ◆ Shri Amit Kumar Sharma, BARC received Best Poster Award for his poster titled, “Comparative Study of Radiopeptides,  $^{177}\text{Lu}$ -DOTA-A9 and  $^{177}\text{Lu}$ -DOTA-PEG4-A9 Targeting HER2-receptors in Breast Cancers”, at 1st HBNI interaction meeting in Chemical Sciences, NISER, Bhubaneswar, 18-20 Jan, 2023. He also received Best Poster Award given by American Chemical Society (ACS) for his poster titled, “Electrochemical and Spectroscopic Investigation of HER2-Targeting Peptide”, in the Conference on Electrochemistry for Industry, Health and Environment, Mumbai, 7 – 11 Feb, 2023.
- ◆ Ms. Debarati Das, BARC received Best Poster Award for her poster titled, ‘Defect and valence engineering in  $\text{CeO}_2$  through aliovalent ion doping for enhanced activity towards ORR catalysis”, in the Conference on Electrochemistry for Industry, Health and Environment, Mumbai, 7–11 February, 2023.

## Awards and Academic Honors Received by HBNI faculty

1. Prof. U. Kamachi Mudali, VC, HBNI was honoured with Lifetime Achievement Award by Ministry of Steel, Government of India at the National Metallurgists Awards 2023. He has also been awarded Gold Medal of Society of Materials Chemistry (SMC), India.
2. Prof. A. K. Tyagi, BARC, has been elected as a Fellow of Indian National Science Academy. He has also been elected as a Fellow of The World Academy of Sciences (TWAS).
3. Prof. S. M. Yusuf, BARC has been awarded with J C Bose fellowship by Science and Engineering Research Board.
4. Prof. H. N. Ghosh Director, NISER has been elected as a Fellow of the Indian National Academy of Engineering.
5. Prof. Bedangadas Mohanty has been awarded with the "Honorary D.Sc. degree" as a testament to his dedication to the nation and pioneering research by the Governor of Odisha, who serves as the Chancellor of Sambalpur University.
6. Dr. Subhasis Chattopadhyay, VECC has been appointed as a member of the prestigious International Joint Scientific Council (JSC) of GSI and Facility for Antiproton and Ion Research (FAIR) at Darmstadt, Germany. FAIR is the largest upcoming International basic science facility and India is the 3rd largest contributor in construction of this facility.
7. Prof. Sandip Basu, RMC-BARC, HBNI, was conferred the 'Fellow of the National Academy of Medical Sciences' by the National Academy of Medical Sciences (NAMS), in recognition of his contributions in the field of Nuclear Medicine and towards the advancement of Medical Sciences.
8. Prof. Archana Sharma, BARC has been elected as a Fellow of National Academy of Sciences in the year 2023.
9. Dr. Raghvendra Tewari, BARC is the recipient of IIM G. D. Birla Gold Medal awarded by Indian Institute of Metals.
10. Prof. Sugilal Gopalakrishnan, BARC has been elected as a Fellow of Indian National Academy of Engineering.
11. Prof. Satyaranjan Santra, BARC has been elected as a Fellow, Maharashtra Academy of Sciences in December, 2023.
12. Dr. Dimple Dutta, BARC has been awarded with MRSI medal of Material Research Society of India. She also has been awarded with Silver Medal of the Society of Materials Chemistry (SMC) India. Her name features in the list of "75 women in Chemistry-She is" brought out in association with Office of Principal Scientific Adviser to Government of India and Royal Society of Chemistry, 2023.



13. Dr. Santosh Kumar Gupta, BARC has been elected as a Fellow of Maharashtra Academy of Sciences, and Indian Chemical Society He has been admitted as a Fellow of Royal Society of Chemistry.
14. Dr. Ashish Kumar Srivastava, BARC has been awarded with Fulbright-Nehru Academic and Professional Excellence Fellowship for 2023-24.
15. Dr. Dhruv Kumar Singh, BARC has received Vaswik Award.
16. Dr. Mayanak K. Gupta, BARC has become INSA Associate Fellow 2023.
17. Dr. Prabhat K. Singh, BARC has been elected as a Fellow of Indian Chemical Society, Fellow of Maharashtra Academy of Sciences, Associate Fellow of Indian National Science Academy. in the year 2023. He has also been admitted as a Fellow of Royal Society of Chemistry and elected as a Young Affiliate of the Third World Academy of Sciences.
18. Prof. Debanik Roy, BARC has received WAAH Science Laureate Awards 2023 for his project titled, "Development of an Indigenously-Designed feeding Robotic Arm for the Indian Old Age People: A Synchronization of Kinematics, Machine Vision, and 3D Printing Technology. He shares this award with Dr. Reena Trivedi and Shri Priyam Parikh.
19. Prof. Punita Batra, HRI has been elected as a Fellow of National Academy of Sciences, India.
20. Dr. Nirav I. Jamnapara, IPR has received a Fellow award from ASM International, USA, bearing the citation "For sustained contributions to the field of plasma materials processing, coatings and promotion of plasma technologies for use by industry and society" on 17th October 2023.
21. Prof. Palok Aich, NISER is inducted as one of the Directors of MicrobioTx Health Pvt. Ltd.
22. Prof. Chidambaram Gunanathan, NISER has become Editorial Board Member of Journal of Chemical Sciences for the period Jan-2023 to Dec-2025.
23. Dr. Subhadip Ghosh, NISER has received honor as Early Career Advisory Board Member of Chemical Physics Impact, an Elsevier Journal.
24. Dr. Pranay Kumar Swain, NISER has been inducted to the Editorial Board of Educational Research and Evaluation (Taylor and Francis) in October 2023.
25. Dr. Bishnu Prasad Biswal, NISER has been selected for the "Odisha Young Scientist Award" for the year 2021. He has also received Prof. R. C. Tripathi Memorial Award by OCS, Odisha.
26. Dr. Rekha Biswal, NISER has been selected for the "Odisha Young Scientist Award" for the year 2022.



27. Dr. Pankaj Chaturvedi, TMC has received Lifetime Achievement Award from Association of Maxillofacial Surgeons of India. He has also received Global Medicine Oration, American Head and Neck Society, and Best Poster Award at AHNS 11th International Conference on “Head and Neck Cancer” held at Montreal, Canada, during July 8-12, 2023.
28. Dr Jyoti Anand Kode, ACTREC-TMC received scholarship from Women Graduates Union, Mumbai as partial support to attend and present work on "Immunoectoenzyme CD26 expression in donor harvest and specific immune subsets correlate with clinical outcomes post ASCT: Cues for improved transplantation therapeutics" at the 18th International Congress of Immunology (IUIS Congress 2023), held at Cape Town, South Africa, during 27th November to 2nd December, 2023. She has also received recognition as "Outstanding Editorial Board Member" and was chosen as the cover person for the latest issue of World Journal of Stem Cells (WJSC) by Baishideng Publishing Group (BPG) Inc., USA, 11th August, 2023.
29. Dr. Manasi Bavaskar, TMC has received Best Video Presentation Award for her video titled “Transfacial approach for retromolar trigone tumors and reconstruction with Nasolabial flap” at MIDCOMS conference held at Loni, Maharashtra in July 2023. She has also received appreciation for her oral Presentation on ‘Treatment of Adenoid Cystic Carcinoma (ACC) of Head & Neck with Distant Metastasis: A Retrospective Analysis’ at International Academy of Oral Oncology, held at South Korea in November 2023.
30. Dr. Asawari Rath, BARC has received Best Presentation Award in Physical Sciences Category for her poster titled, “Laser based Isotope Production towards Self-reliance in Nuclear Medicine” presented at The National Academy of Science (NASI) conference held at Mumbai during December 3-5, 2023.
31. Dr. D. K. Chandraker, BARC has received Best Poster Award for his poster titled “Integral Thermal-hydraulic Test Facilities for Design Validation of Advanced Nuclear Reactors,” presented at Indian Nuclear Society’s International Conference (INSIC) held at Mumbai during December 12-15, 2023.
32. Dr. Gunjan Verma, BARC, has received Best Poster Award for her poster titled, “Silver-Impregnated Zeolite for Mitigation of Iodine,” presented at Indian Nuclear Society’s International Conference (INSIC) held at Mumbai during December 12-15, 2023.



# ANNUAL REPORT

& AUDITED STATEMENT OF ACCOUNTS

# 2023-2024



National Institute of Science Education and Research, Bhubaneswar



# Awards & Professional Activities

## AWARDS AND RECOGNITION

### Prof. Hirendra Nath Ghosh

Fellow of the Indian National Academy of Engineering.

### Prof. Bedangdas Mohanty

Doctor of Science (Honoris Causa), Sambalpur University, Odisha, by Governor of Odisha.

### Prof. Himansu Sekhar Biswal

Fellow of the Royal Society of Chemistry (FRSC), UK.

### Dr. Manjusha Dixit

Article selected for Cover page in FEBS Open Bio, FEBS Press. doi: 10.1002/2211-5463.13428

### Dr. Shyamasree Ghosh

Woman Scientist Award 2022, Biotech Research Society of India, (BRSI) Awarded in November 2023.

### Dr. Bishnu Prasad Biswal

Odisha Young Scientist Award 2021, Odisha Bigyan Academy, DST, Govt. of Odisha [Received on 18.01.2024].

Prof. RC Tripathy Memorial Award 2023, Odisha Chemical Society (OCS) [Received on 05.01.2024].

### Dr. Priyadarshi Chowdhury

My article in Nature Reviews Earth and Environment was featured for the journal's COVER PAGE (Volume 4, Issue 5, May 2023).

### Dr. Surya Snata Rout

Awarded the Transnational Access (TNA) in the framework of the EXCITE (Horizon 2020) research infrastructure. Access to TEM and FIB at Wolfson Electron Microscopy Suite (WEMS), University of Cambridge, UK. Duration: 2022-2023.

Awarded beamtime at the P05 beamline at the PETRA III synchrotron radiation source at DESY (Hamburg, Germany) for microtomography experiments. Proposal: I-20221317 'Chromite grains in Antarctic micrometeorites: Constraining flux of extraterrestrial materials to Earth'.

Awarded beamtime at the Helmholtz-Zentrum Dresden-Rosendorf, Germany for ion irradiation experiments (Proposal No: 19001801-ST) and at RRCAT, Indore for synchrotron infrared spectroscopy experiments (IBR/4450/2023-04-16/INDUS-1/BL-6).

### Dr. Rekha Biswal

"Odisha Young Scientist Award" for the year 2022 in the category of "Odia Scientist working outside the state of Odisha", on 5th Dec 2023 by Odisha Bigyan Academy.

### Dr. Shuddha Shankar Dasgupta

Co-Coordinator for the Work Package 6 (WP6) in DRD1 collaboration.

## POSITIONS HELD IN PROFESSIONAL BODIES

### Dr. Asima Bhattacharyya

- Member, Policy Network, Biochemical Society, UK
- Member, Minimal information for studies of extracellular vesicles (MISEV2023) consortium.

### Dr. Debasmita Pankaj Alone

- Co-opted Member, expert committee in Life Sciences on SRG, NPDF & ECRA schemes, SERB
- Member, Local Research Advisory Committee (LRAC), Multidisciplinary Research Unit (MRU), SCB Medical College, Cuttack.
- Subject Expert, Board of Studies (BOS) Meeting for UG Syllabus revision, Department of Biotechnology, Odisha University of Technology and Research, Bhubaneswar.

### Dr. Harapriya Mohapatra

- Reviewer, Current Microbiology, PLoS One, Frontiers in Microbiology, BMC Microbiology.

### Dr. Aniruddha Datta Roy

- Member, Indian Evolutionary Biologists Society, 2024.
- Regional coordinator for South Asia, IUCN SSC skinks specialist group, 2023.

### Dr. Rittik Deb

- Reviewer, BMC Evolutionary Biology, Current Zoology, Microbial Ecology.

### Dr. Swagata Ghatak

- ICMR Investigator Initiated Small Research grant, ICMR, India 2023



# ANNUAL REPORT 2023-2024



प्लाज़्मा अनुसंधान संस्थान  
Institute for **Plasma Research**  
Bhat, Gandhinagar 382428

Degradation of methyl red through atmospheric pressure glow discharge plasma  
Flossie B F Ch Marak, Ngangom Aomoa

***3rd IEEE International Conference in Inovation in Technology (INOCON), Sai Vidya Institute of Technology, Bengaluru, 01-03 March 2024***

Development of Wireless Serial Server Module for the Remote operation of various Serial Field Device in ITER-India  
Deepak Mandge, Sharan Dilip E, Rajvi Parmar, Kumar Rajnish

***APS March Meeting 2024, Minneapolis, Minnesota, USA, 3-8 March 2024***

Aggregate Morphing of Self-Aligned Active Particles in a Confined Geometry  
Anshika Chugh, Soumen De Karmakar, Rajaraman Ganesh

## **AWARDS and ACHIEVEMENTS**

“**ITER Star Award**” for Three of ITER-India Colleagues for the first semester of 2023. This Public Recognition ITER Star Award initiated recently by ITER, is awarded every semester to ITER staff, in recognition of being exceptional, either through specific achievements, behaviors or values.

- Mr. Pratik Patel, Technical Responsible Officer of ITER-India Cryodistribution system is currently engaged in the design, manufacturing, inspection of Auxiliary Cold Boxes and the design of Thermal Shield cold valve box.
- Mr. Mahesh Jadhav, a system integrator at ITER, is currently responsible for the preparation of Engineering Work Packages for the installation of ITER Cooling Water System networks inside Tokamak Complex and auxiliary buildings.
- Mr. Mitul Patel, certified as Quality Lead Auditor and PE/NPE (Pressure equipment/Nuclear Pressure Equipment) representative at ITER, is responsible for quality supervision/surveillance of ITER assembly contracts & training ITER staff in welding.

Dr. Harshita Raj, received **Best Poster Award** for her poster entitled “Capacitor Bank-Based Power Supply Used for Shaped Plasma Operation in Aditya-U Tokamak, A Milestone in Indian Fusion Program” at DAE-BRNS National Symposium on High Voltage- Energy Storage Capacitors and Applications, DAE Convention Centre, Anushakti Nagar, Mumbai, 22-24 June 2023

[Co-authors: R. Kumar, R .L. Tanna, J. Ghosh, Bharat Arambhadiya, Vismay Raulji , Minsha Shah, K.A. Jadeja, K.M. Patel, K. Singh, S. Dolui, A. Kumar, B. Hegde, Suman Aich, ADITYA-Uand Diagnostic team]

Ms. Swarnima Singh (Research Scholar) was awarded the **2023 PPCF/EPS/IUPAP Student Poster Prize** at the European Plasma Physics Conference 2023 (EPS 2023) held in Bordeaux, France during 3-7 July 2023, for her poster on “Experimental observation of a triple point for a complex (dusty) plasma”.

Dr. Snehlata Aggarwal, received **Best Oral Presentation Award** for her presentation entitled “टोकामॅक प्लाज्मा अनुसंधान में चार्ज एक्सचेंज न्यूट्रल पार्टिकल एनालाइजर (सीएक्स-एनपीए) डायग्नोस्टिक्स के अनुप्रयोग” at National Scientific Hindi Seminar-2023, IPR, Gandhinagar, 20-21 July 2023 [Co-author: Kumar Ajay] क

Dr. Nirav I. Jamnapara, received a **Fellow award** from ASM International, USA, bearing the citation “For sustained contributions to the field of plasma materials processing, coatings and promotion of plasma technologies for use by industry and society” on 17<sup>th</sup> October 2023

Mr. Ram Krushna Mohanta, a DDFS-Ph.D. research scholar, presented a talk on the “Effect of chamber pressure on the output properties of a DC plasma spray torch for VLPPS application” at the 12th edition of Asian Thermal Spray Conference (ATSC) held at IIT Madras from 2-4 November 2023. The talk was awarded the **Best Paper Award** at the ATSC 2023. [Co-authors: Devilal Kumawat, G.Ravi]

Mr. Ankit Gandhi, gave a poster presentation on “Preliminary Analysis of Supercritical Carbon Dioxide Brayton Cycle for Fusion Power Plants” at Indian Nuclear Society’s International Conference: Nuclear for Clean Energy Transition (INSIC-2023), DAE Convention Centre, Mumbai, 12-15 December 2023, and have received **Best Poster Award**.

Ms. Swarnima Singh, gave an invited talk on “Breaking the Hexagonal Lattice Barrier: Experimental Achievement of Square Lattice Formation in 2D Dusty Plasma Crystal”, at 7th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP), Japan, 12-17 November 2023, and have received **2023 U30 Doctoral Scientist / Student Award**.

Dr. Promod Kumar Sharma, gave a talk on “Design criteria for PAM launcher for SST1 tokamak” at the National Conference on Emerging Trends in Vacuum Electronic Devices & Applications (VEDA-2023), Godavari Institute of Engineering & Technology (GIET), Rajahmundry, 23-25 November 2023, and have received the **Best Paper Award**.

Dr. Amreen Ara Hussain of FCIPT, IPR, was awarded the **Parvez Guzdar Young Scientist Award 2023**, for her work on “Development of Hybrid Material Based Optoelectronic Devices using Plasma Technologies”. The award was presented to her during a special session of the Annual Conference of the Plasma Science Society of India (Plasma-2023) held at UPES Dehradun during 4-8 December 2023. The award contained a citation and a cash prize of Rs.10,000/-. This award was instituted in memory of Dr. Parvez Guzdar by the Parvez Guzdar memorial fund.

Mr. Ashok Kumar Kumawat, gave a talk on “Calibration of a Graphite Coated Metal Foil Coating Prototype for the Metal Foil IR Bolometer in Aditya-U Tokamak” at 38th National Symposium



on Plasma Science and Technology (Plasma-2023), UPES, Dehradun, 4-8 December 2023, and have received **Z. H. Sholapurwala Award for Fusion Research.**

Mr. Omkar Chandratre, gave a talk on “Upgradation of Indigenous Helium Refrigerator Plant to Liquefier-Operation and Capacity Test Results” at 38th National Symposium on Plasma Science and Technology (Plasma-2023), UPES, Dehradun, 4-8 December 2023, and have received **Z. H. Sholapurwala Award for Fusion Research.**

Mr. Raj Singh, gave a talk on “Simulation and Experimental Characterization of Coaxial Two Way Switch for RF Plasma Discharge Experiments” at 38th National Symposium on Plasma Science and Technology (Plasma-2023), UPES, Dehradun, 4-8 December 2023, and have received **Z. H. Sholapurwala Award for Fusion Research.**

**Dr. Santosh P. Pandya, gave a talk on “Novel Techniques for the Energy Calibration of the ITER Hard X-Ray Monitor for Detection of Runaway Electrons” at 38th National Symposium on Plasma Science and Technology (Plasma-2023), UPES, Dehradun, 4-8 December 2023, and have received Z. H. Sholapurwala Award for Fusion Research.**

Mr. Nikhil Mohurle, gave a talk on “Charge Collection Diagnostics with Improved SNR to Measure Plasma Charge Content, Density and Temperature in SMART-EX-C” at 38th National Symposium on Plasma Science and Technology (Plasma-2023), UPES, Dehradun, 4-8 December 2023, and have received **Best Poster Award.**

Ms. Manisha Jha, gave a talk on “Pattern re-configurability using plasma for beam steering application at S-band” at 2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), held at the Forum Celebration Centre, Ahmedabad, during 10-12 December 2023, and have received the **Shrimati Ranjana Pal Memorial Award for "Best paper in antenna by a woman researcher"**

Mr. Ravinder Kumar, gave a talk on “ITER-India Diagnostic Systems Ki Navintam Pragati Ka Avalokan” (in Hindi) at Akhil Bhartiya Hindi Vaigynik Sangosti-2024: Naya Bharat Harit Urja Srot, IGCAR, Kalpakkam, 10-11 January 2024, and have received the **Second Prize** for his presentation.

Mr. Aditya Naugraiya, gave a talk on “A Simulation Analysis of 30 kV / 5A DC Power Supply for Neutral Beam Injectors” at 3rd IEEE International Conference on Power, Control and Computing Technologies (ICPC<sup>2</sup>T -2024), National Institute of Technology Raipur, Chhattisgarh, 18-20 January 2024, and have received **Best Paper Award.** [Co-authors: Aritra Chakraborty, Kumar Saurabh, Ashok Mankani]

Mr. Renjith Kumar R, gave a talk on “Studying the melt dynamics of a thin-film using a probe laser” at International Conference on Light Matter Interaction & Ultrafast Processes, Mahatma Gandhi University, Kerala, 1-4 March 2024, Jointly Organised by International Centre for Ultrafast Studies (ICUS), International and Inter University Center for Nanoscience and Nanotechnology (IIUCNN), and School of Pure and Applied Physics (SPAP), and have received **Best Poster Presentation Award.** [Co-authors: Geethika B R, Janvi Dave, Vishnu K Chaudhari, Jinto Thomas]