

MRSI Newsletter

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From the Editors' Desk

It gives us great pleasure in bringing out this newsletter to you. As you are all probably aware, I have been given the responsibility of this newsletter. I take this opportunity to first thank Prof. K K Nanda who has done yeomen services to MRSI in various capacities including the handling of this newsletter for over five years (2018-2022). The highlights of the previous quarter included the 33rd AGM of MRSI, the 4th Indian Materials Conclave and the IUMRS-ICA 2022 which were held at IIT, Jodhpur during December 19-23, 2022. There was overwhelming response and more than 800 delegates participated in these events which included invited and plenary talks, MRSI medal lectures and oral presentations apart from G.C. Jain lectures and nominated student project proposal presentations. It was decided that the 34th Annual General Meeting and the 5th Indian Materials Conclave will be held at IIT, BHU, Varanasi during December 2023. The details are available on the MRSI website.

The Government of India has recently launched the National Mission on Quantum Technologies and Applications (NMQTA). This Mission is expected to provide a huge boost to fundamental science with emphasis on translation and technology development. Simultaneously, there could be huge human and infrastructural resource generation providing impetus to innovation and start-ups.

Dr. B L V Prasad Editor

For more details about the activities of MRSI, members are advised to visit the society's website at

www.mrsi.org.in

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MRSI NEWSLETTER

Volume B 23, Number 1 April 2023

The MRSI Newsletter is a quarterly update published by the Materials Research Society of India. Members are requested to contribute information of interest to Materials Science community. Members can inform through the Newsletter, recognitions/awards received by them, changes in address, forthcoming events, and any interesting scientific/technological developments in the area of materials. The relevant information should be sent to the following address:

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Awards & Distinctions Conferred on Members

We are happy to report that the following member of Materials Research Society of India has received award and distinction shown against his name. MRSI congratulates them.

Arvind Ku. Prajapati BRICS Young Scientists Forum (2022)

Sandeep A. Waghuley Award by Maharashtra Accademy of Sciences, Pune (2021-22)

Ashok Vijh Honorary Fellow of Canadian Academy of Engineering
Sandhya Shenoy NASI Young Scientist Platinum Jubilee Award (2021)

Devasish Chowdhury Fellow of Royal Society of Chemistry (FRSC), London, UK

N K Mukhopadhyay 'Lifetime Achievement Award', 2021 by EMSI

P.S: Members are requested to communicate to the Editorial office about the Awards, Honours and Distinctions they have received from various agencies.

34th AGM of MRSI and 5th INDIAN MATERIALS CONCLAVE (IndMac)

The 34th Annual General Meeting of MRSI and the 5th Indian Materials Conclave (IndMac) will be held at IIT, BHU, Varanasi during December 12-15, 2023. This meeting is intended to provide a valuable forum for interaction between scientists & technologists working in the area of materials science.

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Minutes of the 33rd AGM, 4th IndMac nd IUMRS-ICA 2022

The thirty third Annual General Body Meeting of Materials Research Society of India was held at IIT, Jodhpur during December 19-23, 2022

Prof. P S Anil Kumar, General Secretary presented the Annual report of MRSI for the year 2021. Some aspects of the report are given below.

- The following paper was adjudged as the best paper in the Bulletin of Materials Science.. "3D printing of semicrystalline polypropylene: towards eliminating warpage of printed objects" by Nirmalya Bachhar¹, Aniket Gudadhe¹, Anil Kumar², Prem Andrade² and Guruswamy Kumaraswamy¹ (¹NCL, Pune, ²ANSYS Software, Pune) Vol (43), (2020).
- No Honorary members were elected for the year 2022
- The G C Jain Memorial Prize for the best Ph.D thesis in materials science was awarded to Dr. Nirman Chakraborty from Weizmann Institute of Science, Israel
- The 34th Annual General Meeting and the 5th Indian Materials Conclave will be held at IIT, BHU, Varanasi during December 2023.

The meeting concluded with a vote of thanks to the chair.

REPORT ON THE 33rd AGM, 4th IndMac and IUMRS-ICA 2022

The 33rd AGM of MRSI, the 4th Indian Materials Conclave and the IUMRS-ICA 2022 was held at Indian Institute of Technology, Jodhpur, Rajasthan during ecember 19-23, 2022. A total of 700 delegates across the world attended the conference

Brief Overview:

Over the five days (19th- 23rd December) of the IUMRS-ICA 2022 conference, it offered a platform for global exchange of cutting-edge research and development as well as the identification of unmet research requirements and possibilities in all areas of material science. This conference exposed the attendees to some of the most recent advances in material science and provided a platform for intellectual exchange with leading researchers on the national and international levels. Research collaboration between researchers from the emerging institutes and established/recognized scientists in India and overseas was made possible thanks to the IUMRS-ICA 2022 conference. The youthful generation was likewise inspired and encouraged by this conference to pursue basic and material scientific research and development. Senior scientists operating in India and abroad, as well as the invited speakers, anticipated future collaborations or any guidance related to the research work.

Conference Themes:

The IUMRS-ICA-2022 programme includes cutting-edge R&D topics on materials, devices, and related applications with different functional materials for semiconductors, energy, organic and flexible, 2D, graphene and beyond graphene, III-V and II-VI, computational, optoelectronic, biodegradable, biomaterials, soft, nature inspired, neuro-inspired, quantum computing, sensing, emerging memory, biomedical, hybrid and biomass, advanced structural; and related applications.

Proceedings

Inaugural Session:

The opening session was addressed by Prof. Mahesh Kumar, Chair IUMRS who declared the conference officially open at the end of his statement. Prof. Santanu Chaudhury, Director IIT Jodhpur, then delivered a welcome address in which he emphasized on the role of such conferences in researchers' career and was followed by Prof. P.S. Anil Kumar, Secretary MRSI who gave brief insights about the MRSI. Following his statement, Prof. S.B. Krupanidhi delivered the inaugural address to all the delegates of the IUMRS-ICA 2022 conference. Prof. Rodrigo Martins, President IUMRS and European academy of sciences delivered the presidential address and unveiled the conference abstract booklet was done. The opening ceremony of the Conference concluded with a brief vote of thanks by Prof. S.P. Tiwari, Co-Chair IUMRS ICA 2022.

The conference format included 76 invited talks, 54 Oral Presentations, 5 Plenary talks from eminent Scientists/Professors/Industry Professionals, 12 MRSI medal lecture talks, 4 G.C. Jain lectures for the best thesis award and 2 nominated student project proposal presentations which were scheduled in parallel sessions in five halls. Apart from that, more than 550 participants showcased their research work by poster presentations.

The conference was designed to promote conversation among attendees about the main topics of the semiconducting material and devices. This was accomplished by holding short-answer questions, full-group discussions among participants, and small-group discussions with speakers after each session. In order to allow attendees to continue their conversations after each session, the conference also scheduled 30 minutes for morning and afternoon tea and one hour for breakfast, lunchand dinner on each day. Each day's conversations were summarised in a group reflection period at the end.

Social Programme: Cultural Night

To accustom the delegates with the Rajasthan weather and culture and to display Rajasthan'shospitalitywhich is best in the world acultural night was organised on the end of the second day of the conference in which the local dance and folklore were presented by the artists.

Banquet Dinner

The IUMRS ICA Conference banquet dinner was hosted following the third day of the conference and was open to all attendees. There were about 500 guests at the meal and local cuisines and flavors were served to the attendees.

Awards and Recognitions

MRSI had nominated eminent researchers that have given breakthrough in the field of the materials sciences and were awarded with medals acknowledging their contribution. Prof. Judith Driscoll from the Cambridge University, UK received the "MRSI Silver Jubilee International Medal" for her outstanding work in the past decade. Prof. G.U. Kulkarni from JNCASR Bangalore was awarded with the prestigious "CNR Rao Prize in Advance Materials".Prof. D.D. Sarma from IISc Bangalore was honored with the title of "MRSI Distinguished Material Scientist of the year" along with the medal.Prof. Kulamani Parida from Centre for Nanoscience and Technology, Bhubaneshwar and Dr. Tata Narasinga Rao from ARCI Hyderabadwere awarded with "MRSI Material Science Annual Prize". Further, 12 MRSI medals were awarded to young professors and scientists who are actively contributing in their field across the country.

Apart from that, ACS publications has proudly sponsored 9 Best poster awards and IOP publishing house with two best poster awards in IUMRS with cash prize of Rs. 3000 and Rs 5000 to each selected best presenters. Students participated actively in the poster presentation and were awarded with the certificates and cheques by the sponsoring agencies.

Closing Ceremony:

The conference ended on a very positive note with session ceremony which was being jointly chaired by Prof. P.S. Anil Kumar and Prof. S.B. Krupanidhi who thanked the participants and speakers for their contribution in the conference and for making it a grandeur event. Medal awardees, best poster presenters and volunteers were felicitated with huge round of applause from the audience. Prof. Mahesh Kumar and Prof. S.P. Tiwari advised the scholars to get in touch with them if they needed any assistance related to research and extended their heartfelt thanks to all the delegates for being part of this magnificent scientific gathering!

Prof. Mahesh Kumar Chair

New Members Enrolled from July 2022 to March 2023

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CALENDAR OF EVENTS

July 6-8, 2023, International Conference on Thin Films & Nanotechnology: Knowledge, Leadership, & Commercialization, IIT-Madras, website: http://www.ictn-klc.org/

December 11-16, 2023, IUMRS-ICA 2023, Kyoto, Japan, website: https://mrm2023.jmru.org/

December 12-15, 2023, 34th AGM and 5th Indian Materials Conclave, contact: school of materials science and technology, IIT (BHU) Varanasi 221 005, Te; 9451058153, 9129113336, Email: mrsi.agm2023@iitbhu.ac.in

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