

MRSI Newsletter

A quarterly publication of the Materials Research Society of India for circulation amongst its members

Volume B 24, Number 1

April 2024

From the Editors' Desk

In this issue of MRSI newsletter we tried to compile and bring you the latest information related to the events conducted by MRSI, or those that are being organized collaboration with it. In addition, the details about support for student projects, MRSI's unique initiative and the call for G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science and the application form for the same are also included in this newsletter. Many of our colleagues (MRSI Life Members) have been recognized with Fellowships and Awards for their outstanding work. On behalf of MRSI we congratulate them all.

BLV Prasad *Editor*

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

www.mrsi.org.in

In this issue

From the Editor's desk	1	G C Jain Memorial Prize	4
Awards and distinctions	2	34 th AGM-A report	5
Students' Projects	2	New members	6
IUMRS-ICA 2024, 35 th AGM & 6 th IndMac	2	Bangalore Nano 2024	11
Student Membership	2	Calendar of events	12
Announcement-ICA	3	Patron Membership	12

MRSI NEWSLETTER

Volume B 24, Number 1 April 2024

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

Editor

MRSI Newsletter

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Awards & Distinctions Conferred on Members

We are happy to report that the following members of Materials Research Society of India have received awards and distinctions shown against their names. MRSI congratulates them.

Dr. A K Tyagi	 Fellow, the world academy of sciences Fellow, Indian National Science Academy J C Bose Fellowship
Dr Nitin P. Wasekar	N. M. Sampat, National Award by Electrochemical Society of India
Dr. Abhay A. Sagade	Friedrich Wilhelm Bessel Research Award" from the Alexander von Humboldt Foundation, Germany
Dr. Suman Singh	Member, National Academy of Sciences, Physical Sciences, 2023
Dr. M S Santosh	Member, National Academy of Sciences, Engineering Sciences, 2023
Dr. B L V Prasad	Fellow, National Academy of Sciences

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

STUDENTS' PROJECTS

MRSI would be supporting projects of students doing B.Tech, M.Tech, ME, M.Phil, Ph.D in the area of Materials Science and Technology. The projects should be undertaken under the supervision of a MRSI member. The students can submit their proposals to the MRSI office through email <office@mrsi.org.in> before October 31st 2024. After the projects are approved, the students would be supported financially (registration waiver, II class AC train travel and local hospitality) for participating in the AGM of MRSI to present the results of the projects approved.

STUDENT'S MEMBERSHIP

The council of Materials Research Society of India (MRSI) at its meeting held recently at Varanasi has decided to conduct a student membership drive to encourage the students to take up the life membership of MRSI. The life membership fee for students only is INR 3000 which is a reduced fee. This will be valid for a limited period upto 30th June, 2024. Kindly utilize this opportunity and become a life member of MRSI. Kindly apply online through the MRSI website <www.mrsi.org.in>.

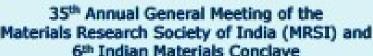
IUMRS-ICA 2024, 35th AGM of MRSI and 6th INDIAN MATERIALS CONCLAVE

The IUMRS-ICA 2024, 35th Annual General Meeting of MRSI and the 6th Indian Materials Conclave (IndMac) will be held at CSR Indore, during December 3-6, 2024. This meeting is intended to provide a valuable forum for interaction between scientists & technologists working in the area of materials science.

Conference website: https://www.iumrs.csr.res.in Abstract submission opens: 16th May 2024

INTERNATIONAL UNION OF MATERIALS RESEARCH SOCIETY INTERNATIONAL CONFERENCE IN ASIA 2024

(IUMRS-ICA 2024)









Organized by

UGC-DAE Consortium for Scientific Research, Indore In association with Devi Ahilya Vishwavidhyalaya, Indore





Partner Institutes: RRCAT and IIT Indore



Important Dates

- 1. Abstract submission opens:
- 2. Abstract submission deadline:
- 3. Decision on Abstracts:
- 4. Decision on Tetorial participation:
- 5. Barty bird registration closes:

May 16, 2024 July 31, 2024 August 31, 2024

September 9, 2014 October 1, 2024

Conference Prof. Amian J. Pal, Director, UGC-DAE CSR, Indone

Prof. Renu Jain, Vice-Chancellor, DAVV, Indore

Convenor: Dr. Vasant G. Sathe UGC-DAE CSR Co-Convenor: Prof. Ashutosh Mishro, DAVV

COMPRESSION THEMES.

Biomaterials including Soft Matters Ceramics and Glasses

Computational Materials Science **Energy Materials**

Magnetic & Superconducting Materials Metals and Alloys

Optical and Later Materials Polyment and Organic Materials

Quantum Materials

Semiconductors & Electronic Materials

Synthesis and Characterization Thin Films, Surfaces and Interfaces

ADMISORY COMMITTEE

Prof. S. B. Krupanidhi (Chali, MRSI) Shri Viwk Bhasin, BARC Mumbal Dr. De bashish Bhattacharjee, Yata Steel Prof. Gobardhan Day, ISSER, Rhopal Prof. H. N. Ghosh, NISER, Bhubanereas Prof. G. U. Kulkard, JMCASR Bangalore Prof. R.S. And Karner, It's Bangalore Prof. Sultan S. Joshi, HT Indom Dr. S. V. Nakhe, RRCAT Indone Dr. Katsubillo Ariga, NIMS, Japan Prof. B. V. R. Chowdarf, IUMRS Head Office.

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Prof. Sanjay Matthus, University of Cologne Prof. T. K. Mishra, Southern Denmark Univ.

Registration Fee

Indian Partitions*	Budy Stel	Lagran
healty/literates	\$1,000ph	T10,000)-
Budant (90/10/160/160)	Taxon)-	Тискор-
Annuquesting pursus	T.1000/-	Exemp.
Performant from Indication	\$18,000p	F30,000)-
Other Countries (USD)		
Pennity/Selection	000 400	1000 000
Budania (10)70/940/907)	U00 300	UIID 300
Accompanying parent	000 300	1000 200
Perhapsed from Indicatelos	000 700	UED 100

MRSI marriage are writted to a disparat of \$1,000.

*The Registration Fee Indicates existeins to a refractments and much, Mintenst Book, etc.

*Registration Fee for the Pre-Conference Scientish \$1,000.

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Selected papers will be published in a reputed journal offer peer review; journal details will be updated on the conference website soon.

A Special Pre-Conference Tutorial (for Limited Participants) On Synchrotron Radiation for Materials Characterization

followed by

A guided visit to Indus-Tand Indus-2 Synchrotrons, RRCAT, Indore (Date December 2, 2024)

G C JAIN MEMORIAL PRIZE FOR THE BEST Ph.D THESIS IN MATERIALS SCIENCE

The Council of MRSI decided to award an annual prize one in each calendar year for the best Ph.D. thesis in the area of Materials Science. The funds for this prize have been raised by the friends and students of Dr. G C Jain. The Guidelines and the Application form are furnished hereunder:

Guidelines

1. The prize will be given each year for the best Ph.D thesis in the broad multi disciplinary field of Materials Science, in disciplines such as Condensed Matter Physics, Chemistry, Biology, Metallurgy, Ceramics and Chemical Engineering.

2. Criteria for Selection

- -Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory during the calendar years 2023 and 2024 for the current prize.
- -Three recommendation letters should be enclosed including one from the thesis supervisor along with a one-page write-up highlighting the prime results of the thesis.
- -Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.
- -The shortlisted theses will be selected after peer reviewing by the committee. Such shortlisted theses work must be presented by the students concerned in oral format at the AGM of MRSI. The final selection will be done at the AGM by a suitably constituted committee.
- 3. The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.
- 4. The soft copy of the application in the prescribed format reproduced alongside should be sent by email (office@mrsi.org.in) to the Secretary, MRSI so as to reach him on or before October 31st, 2024.

Application Form

photo

G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science

- 1. Name of the Applicant
- 2. Address :
 Office
 Telephone :
 Email :
- 3. Academic Record

(in brief) (Degree/year of passing/University):

- 4. Title of the Ph.D Thesis:
- a) The discipline or subject in which the Ph.D degree was awarded:
- b) Name of the University/Laboratory/Institute where the Ph.D work was carried out
- c) Name of the Research Supervisor
- d) Date of submission of the thesis :
- e) Date of Award of Ph.D
- f) One page write-up of the thesis highlighting the prime results (to be enclosed) enclosed/not enclosed
- 5. Recommendation Letters

(to be enclosed)

(from the thesis supervisor and 2 other experts)

enclosed/not enclosed

6. List of Publications based on the thesis work

in Journals, Reports, Conferences, Patents (to be enclosed) Give Title of the Paper, Authors, Journal, Vol / Page/ Year for Journal Publications

enclosed/not enclosed

7. Any additional information

Date: Signature

MRSI 34th AGM - A REPORT

The 34th Annual General Body Meeting of Material Research Society of India and 5th Materials Conclave has been organised by School of Materials Science and Technology, IIT(BHU). Dr. Ritu Karidhal, Senior Scientist of ISRO, well known as Rocket woman of our nation was the chief guest of this meeting. She has played a key role in realizing the Mars Orbiter Mission, which created history of being the first mission to reach Mars in its first attempt. She is also the Mission Director of Chandrayaan-2 and integral part of Chandrayan-3 team. Director, Prof. Promod Kumar Jain, IIT(BHU), MRSI President Prof. S.B. Krupanidhi and MRSI Secretary Prof. Anil Kumar along with were with us in the inaugural function. Members of advisory committee of MRSI, local organising committee and keynote speakers Prof. D.D. Sharma, IISC Bangalore and Prof. Hari Shrikant, University of south Florida were present in the event. Prof. Rajiv Prakash, Director, IIT Bhilai, all MRSI medal awardee to the 34th AGM of Material Research Society of India and 5th Materials Conclave were few invitees. Our hearts swell with pride as we host this prestigious conference, where over 600 participants including 120 speakers from across our great nation and across the globe have come together to advance the frontiers of knowledge in this vital field. Since the inception of this series, the conference has served as a wonderful and dynamic platform for the exchange of high-quality ideas and cutting-edge scientific research among researchers and scientists from academia and industries alike. It has facilitated networking and collaborations, benefiting all stakeholders, including students, researchers and industry persons. The program encompasses 11 trending themes, ranging from electronic materials for sensors, neuromorphic devices, electrical, photonic materials and devices, magnetic, spintronics and superconducting materials, materials for energy and environment, computational materials science and its applications, glass, ceramics and its applications, biomaterials, ion matter interactions and its applications, structured material and alloys, quantum materials and applications. The developments in these areas were focused by leading academicians, researchers, and eminent scientists working in premier institutes of India including CSIR, IITs, IISc, IISERs, NISER, BARC, DAE Institutes, NITs, Universities, DRDO, ISRO, industries and renowned scientists from abroad. The invited talks, oral presentations in these 11 themes were distributed in 5 parallel sessions. One session is exclusively made for the presentation by the women scientists.

This annual gathering was not just an opportunity for us to come together, share ideas, and collaborate on cutting-edge research, but it was also a testament to the strength and unity of our scientific community. The Material Research Society of India has always been a beacon of excellence, fostering an environment where innovation and collaboration flourish. It added a value to groundbreaking discoveries in nanotechnology, sustainable materials for clean energy, innovations in biocompatible materials to advancements in electronics, space aircrafts by having far-reaching implications for society, industry, and the environment. The conference was very much successful for all the participants including all stakeholders those who were attending the conference.

Prof. Chandana Rath Convener, MRSI 34th AGM

New Members

Enrolled between October 1, 2023 and and April 20, 2024

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Bangalore India Nano 2024

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India's Flagship Nanotech Event Bengaluru INDIA NANO, is an excellent platform bridging Nanotech Research, Industry, Government and Academia successfully over the last 12 years. The event is organised by the Department of Electronics, IT, Bt and S&T, Government of Karnataka under the guidance of Vision Group on Nanotechnology led by Prof. C.N.R. Rao, FRS, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR). The event's primary objective is to provide significant impetus to the expansion and advancement of the nanotechnology industry within the country.

The 13th edition of BENGALURU INDIA NANO conference is scheduled between August 1 - 3, 2024 at Bengaluru. The focal theme of the event is "Nanotechnology for Sustainability: Climate, Energy and Healthcare" and the forthcoming edition will revolve around groundbreaking discussions, innovations, and collaborative efforts in these critical areas.

The 13th Bengaluru INDIA NANO will facilitate the gathering of nanotechnology experts, scientists, researchers, industry professionals, and startups to engage in discussions and knowledge-sharing about the future of nanotechnology. This event will serve as a nexus for academia, research, and industry, offering inspiring talks, high-caliber research papers, and a platform for presenting innovative and groundbreaking nano-applications.

Website: https://www.bengaluruindianano.in/

CALENDAR OF EVENTS

Members are requested to give information about the conferences/symposia/workshops they are organizing well in advance so that the same can be inserted in the "calendar of events"

16-20, May, 2024: IUMRS-ICEM, Hong Kong, website: https://hkmrs.org/iumrs-icem2024/, Email: iumrs.icem.2024@gmail.com

8-12, June, 2024: IUMRS-ICYRAM 2024, Jeju, Korea, website: https://www.gcim2024.org/

1-3, August 2024, Bangalore Nnao 2024, website: https://www.bengaluruindianano.in/

3-6, December 2024: IUMRS-ICA 2024. Indore, India, website: http://www.iumrs.csr.res.in

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