



MRSI Newsletter

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

Volume B 20 Number 1

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From the Editors' Desk

I wish all the materials fraternity a happy and prosperous 2020. The relevance of materials research is becoming more and more noticeable and we are in an era of splendid opportunities. Any current and future technology will heavily rely on the research in the area of materials. Apart from improvement in the area of novel technology development, the issues related to environment, energy and water are also need to be addressed. The materials research can address these issues very effectively. In addition, the materials community can also make use of the recent advancements in machine learning and artificial intelligence and contribute significantly in these areas as well.

The Materials Research society of India is actively engaged in promoting networking among materials scientist and students. MRSI initiated a novel concept of Indian Materials Conclave in 2019 (IndMac). It was a huge success and more than 600 people attended the meeting which had plenary talks, invited talks, contributed talks, poster sessions apart from the medal/award lectures. The 2nd IndMac will be held in Kolkata during 11-14 February 2020 at CGCRI. All are encouraged to attend and participate in the deliberations.

K K Nanda
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 20, Number 1
January 2020

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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MRSI Newsletter

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Awards & Distinctions Conferred on Members

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

Dr. S.C. Vanithakumari NIGIS Corrosion Awareness Award 2019

Prof. T Subba Rao Best Teacher Award 2019

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

MRSI AWARDS 2020

The MRSI Awards and Prizes for the year 2020 have been announced. The awardees will deliver lectures at the 31st AGM of MRSI to be held at Saha Institute of Nuclear Physics, Kolkata during February 11-14, 2020.

MRSI Silver Jubilee International Medal	Prof. B V R Chowdari NTU, Singapore
CNR Rao Prize Lecture in Advanced Materials	Dr. K George Thomas IISER, Thiruvananthapuram
Distinguished Materials Scientist of the Year Award	Dr. Suresh Das IISER, Thiruvananthapuram
MRSI ICSC & Materials Science Senior Award	Prof. Samit K Ray SN Bose Centre, Kolkata
MRSI-ICSC & Materials Science Annual Prizes	Prof. Kanishka Biswas JNCASR, Bangalore Dr. B L V Prasad NCL, Pune Prof. Amitava Patra IACS, Kolkata
MRSI Medal Lectures	
Dr. Angshuman Nag, IISER, Pune Dr. Somobrata Acharya, IACS, Kolkata Prof. Sujit K Ghosh, IISER, Pune Prof. P K Giri, IIT, Guwahati Dr. P M Shirage, IIT, Indore	Dr. (Mrs). Suman Lata Jain, IIP, Dehradun Dr. K G Suresh, IIT, Mumbai Dr. Vanchiappan Aravindan, IISER, Tirupati Dr. Parameswar K Iyer, IIT, Guwahati

TECHNICAL PROGRAMME
2nd Indian Materials Conclave and 31st AGM of MRSI
11 – 14 February, 2020, CSIR-CGCRI, Kolkata

Day I: 11 February, 2020

09:00 – 13:00 hrs	M N Saha Auditorium	
09:00 – 09:30 hrs	Registration	
09:30 – 10.30 hrs	Inauguration	
	Welcome Address: Dr. K. Muraleedharan, Director, CGCRI, Kolkata	
	On the Occasion: Prof. N.R. Bandyopadhyay, Chairman, MRSI, Kolkata Chapter	
	Address by: Prof. S. B. Krupanidhi, President, MRSI	
	Address by: Prof. Dipankar Chakravorty, INSA Emeritus Scientist, IACS, Chief Guest	
	Vote of thanks: Prof. P. S. Anil Kumar, General Secretary, MRSI	
10.30 – 11.00 hrs	MRSI Silver Jubilee International Medal	
	Prof. B.V.R Chowdari, NTU, Singapore	
	<i>Energy storage aspects - Lithium ion batteries</i>	
11.00 – 11.30 hrs	Tea Break	
11.30 – 12.00 hrs	CNR Prize Lecture in Advanced Materials	
	Dr. K. George Thomas, IISER Trivandrum	
	<i>Excitons and plasmons: A tale of two elementary excitations and their interaction</i>	
12.00 – 12.30 hrs	PL1: Prof. M. K. Sanyal, SINP, Kolkata	
	<i>Probing growth of functional nanowires by synchrotron X-rays</i>	
12.30 – 13.00 hrs	PL2: Dr. Debashish Bhattacharjee, Vice President, Tata Steels	
	<i>High volume, high value, structural materials beyond steel</i>	
13.00 – 14.00 hrs	Lunch Break	
14:00 – 16:00 hrs	Parallel Theme Sessions I	
Theme Session A1	Electronic, Magnetic, Energy & Nanomaterials	at M N Saha Auditorium
	IT-A01: Prof. Pushan Ayyub, TIFR, Mumbai	
	<i>Why do the unit cell parameters vary with particle size?</i>	
	IT-A02: Prof. S. M. Shivaprasad	
	<i>Growth and characterization of nanomaterials</i>	
	IT-A03: Prof. S.M. Yusuf, BARC Mumbai	
	<i>Applied aspects of advanced magnetic materials: A few case studies</i>	
	IT-A04: Prof Aninda J. Bhattacharyya, IISc Bangalore	
	<i>Beyond Li-ion batteries: Complexities and challenges</i>	
Theme Session B1	Biomaterials, Soft matter, Ceramic & Devices	at Room No. 104
	IT-B01: Prof. Bikramjit Basu, IISc, Bangalore	
	<i>Biophysical stimulation mediated stem cell functionality modulation on multifunctional biomaterials</i>	
	IT-B02: Prof. Abhijit Bandyopadhyay, Calcutta University, Kolkata	
	<i>About hyperbranched polymers and its different prospective applications</i>	
	IT-B03: Dr. R. N. Das, Past GM, BHEL, Hyderabad	
	<i>Manufacturing innovations in structural ceramic products enabling sustainable developments</i>	
	IT-B04: Dr. K. Annapurna, CGCRI, Kolkata	
	<i>Specialty glasses and glass-ceramics for mid-infrared photonic applications</i>	
Theme Session C1	Computational Materials Science	at APC Roy Seminar Hall
	IT-C01: Prof. Purushottam Jena, VCU Richmond	
	<i>In search of metastable forms of carbon: Discovery of U-carbon</i>	

IT-C02: Prof. Indra Dasgupta, IACS, Kolkata
Spintronics with Rashba systems

IT-C03: Prof. Saurabh Ghosh, SRM, Chennai
Design of functional perovskite oxides by first-principles calculations and machine learning

IT-C04: Prof. Amrita Bhattacharya, IIT Bombay
Unraveling the charge and heat transport aspects in thermoelectric solids

IT-C05: Dr. Debjani Karmakar, BARC Mumbai
Search for band inversion beyond Graphene - A multidimensional modelling approach

16.00 – 16.30 hrs **Tea Break**

16:30 – 18:30 hrs **Parallel Theme Sessions II**

Theme Session A2 **Electronic, Magnetic, Energy & Nanomaterials** **at M N Saha Auditorium**

IT-A05: Prof. Sayan Bhattacharyya, IISER Kolkata
Electrochemical Redox activity of perovskite oxides

IT-A06: Prof. Goutam Sheet, IISER Mohali
Domain dynamics and spin depolarization in the Weyl ferrromagnet $Co_3Sn_2S_2$

IT-A07: Prof. Chandra Sekhar Tiwari, IIT Kharagpur
Synthesis and characterization of 2D materials: engineering materials at the atomic scale

IT-A08: Dr. Praveen Kumar, IACS Kolkata
Monolithically integrated photoelectrochemical cell for hydrogen generation from water

Theme Session B2 **Biomaterials, Soft matter, Ceramic & Devices** **at Room No. 104**

IT-B05: Prof. Syed Arshad Hussain, Tripura University
Clay minerals – the ideal host material to manipulate the properties of organic molecules

IT-B06: Prof. Pralay Maiti, Banaras Hindu University
Design of drug delivery vehicle for healthcare

IT-B07: Mr. Sitendu Mondal, CGCRI, Kolkata
Speciality material of choice for enhanced nuclear safety: Technology development and commercialization.

Theme Session D1 **Thin films, Surfaces and Interfaces** **at APC Roy Seminar Hall**

IT-D01: Prof. Bhupendra N. Dev, IIT Kharagpur
Novel magnetic behaviour and inhomogeneous superconductivity in cobalt thin films with high-density cobalt layers

IT-D02: Prof. Subhasis Ghosh, JNU, Delhi
Field effect transistor based on monolayer and bilayer graphene: Charge transport mechanism

IT-D03: Dr. Prasanta Karmakar, VECC, Kolkata
Nanopatterning and chemical alteration at surface and interfaces by low energy ion beam

IT-D04: Prof. Sudeshna Chattopadhyay, IIT Indore
Effect of surface and interfaces: Tailoring structural and electronic properties of semiconductors and its applications

18:30 – 19:30 hrs **Cultural Program at M N Saha Auditorium, followed by Dinner**

Day II: 12 February, 2020

09:30 – 13:00 hrs **M N Saha Auditorium**

09.30 – 10.00 hrs **PL3:** Prof. Santanu Bhattacharya, IACS, Kolkata
Highly luminescence responsive nano-assemblies for sensing cell membranes

10.00 – 10.30 hrs **PL4:** Prof. Rajeev Ahuja, Uppsala University,
Materials for energy applications: A computational materials science point of view

10.30 – 11:00 hrs **Distinguished Materials Scientist of the Year Award**
Dr. Suresh Das, Kerala State Council for Sc. and Tech. Trivandrum
Molecular design of squaraines for photon based applications

11.00 – 11.30 hrs **Tea Break**

11.30 – 13.00 hrs MRSI-ICSC & Materials Science Annual Prizes

Prof. Amitava Patra, IACS, Kolkata

Ultrafast and hot electron transfer in hybrid nanostructures

Dr. B L V Prasad, NCL, Pune

Nanomaterial synthesis: Our efforts towards bridging the "lab to market" gap

Prof. Kanishka Biswas, JNCASR, Bangalore

Nanostructured thermoelectrics

13.00 – 14.00 hrs Lunch Break

15.00 – 17.00 hrs Council Meeting (Only for Council Members)

at Atma Ram Committee Room

14.00 – 16.00 hrs Parallel Contributory Talks

CT-01 – CT-08

at M N Saha Auditorium

CT-09 – CT-16

at H K Mitra Committee Room

CT-17 – CT-24

at Room No. 104

16.00 – 16.30 hrs Tea Break

16:30 – 18:30 hrs Parallel Theme Sessions III

Theme Session A3 Electronic, Magnetic, Energy & Nanomaterials

at M N Saha Auditorium

IT-A09: Prof. Ashok K Ganguli, IIT Delhi

Design of new superconductors with conducting BiS₂ layers and related materials

IT-A10: Prof. Hirendra Nath Ghosh, INST, Mohali

Exciton, bi-exciton, trion and polaron dissociation dynamics in nano-structured hetero interface: Implication in solar devices

IT-A11: Prof. Pallab Barerji, IIT Kharagpur

Theme Session C2 Computational Materials Science

at H K Mitra Committee Room

IT-C06: Prof. Baidurya Bhattacharya, IIT Kharagpur

Is nanomechanics really different? Let us count the ways

IT-C07: Prof. Tanusri Saha Dasgupta, SNBNCBS Kolkata

Computational prediction on magnetic double perovskites

IT-C08: Prof. Saswata Bhattacharya, IIT Delhi

Charged defects in TiO₂ anatase: A comparative study of hybrid DFT, GW and BSE to explore optical properties

IT-C09: Prof. Sudip Chakrabarty, IIT Indore

A computational roadmap for next generation energy scavenging materials

IT-C10: Prof. Ranjit Thapa, SRM-AP Amaravati

Electronic descriptor of carbon-based catalyst using QM/ML approach

Theme Session D2 Thin films, Surfaces and Interfaces

at Room No. 104

IT-D05: Prof. Shankar Ghosh, TIFR, Mumbai

Self-organization: role of friction, rotation, and mechanical noise

IT-D06: Prof. Rabibrata Mukherjee, IIT Kharagpur

Many facets of 2D colloidal self-assembly and transfer

IT-D07: Prof. Dillip K. Satapathy, IIT Madras

Sorption and desorption kinetics of water in polymer films: Role of crosslinking and confinement

IT-D08: Prof. Jayanta K. Bal, Abhedananda Mahavidyalaya

Nanoscale confinement induced mysterious properties of polymer ultrathin films

18:30 – 19:30 hrs AGM at M N Saha Auditorium, followed by Dinner

Day III: 13 February, 2020

09.30 – 13.00 hrs	<i>M N Saha Auditorium</i>
09.30 – 10.00 hrs	MRSI-ICSC & Materials Science Senior Award Prof. Samit K Ray, SN Bose Centre, Kolkata <i>Excitements with group-IV semiconductor heterostructures for strain and bandgap engineered devices</i>
10.00 – 10.25 hrs	ML-1: Dr. K G Suresh, IIT, Mumbai <i>Recent studies on magnetic Heusler alloys</i>
10.25 – 10.50 hrs	ML-2: Dr. Somabrata Acharya, IACS, Kolkata <i>Exploring air-water interface for highly luminescent molecular assemblies</i>
10.50 – 11.20 hrs	Tea Break
11.20 – 11.45 hrs	ML-3: Prof. Sujit K Ghosh, IISER, Pune <i>Metal-organic frameworks (MOFs) based remediation of environmental pollutants for clean water</i>
11.45 – 12.10 hrs	ML-4: Prof. P K Giri, IIT, Guwahati <i>Light-matter coupling and charge transfer dynamics in monolayer MoS₂ and WS₂ based Van der Waals heterostructures</i>
12.10 – 12.35 hrs	ML-5: Dr. Vanchiappan Aravindan, IISER, Tirupati <i>Building better batteries: High energy Li-ion power packs via Ni-doped Spinel and Olivine cathodes</i>
12.35 – 13.00 hrs	ML-6: Dr. Parameswar K Iyer, IIT, Guwahati <i>New functional materials and devices with unique multifunctional properties</i>
13.00 – 14.00 hrs	Lunch
14.00 – 16.00 hrs	Poster Session CP-001 – CP-065
14.00 – 16.00 hrs	APC Roy Seminar Hall
14.00 – 15.00 hrs	G. C. Jain Talks: Ragothaman Murali, Anna University, Chennai <i>Collagen based functional and biomimetic hybrid constructs: Design, synthesis and evaluation for tissue engineering applications</i> Pooja Devi, ASIR, New Delhi & CSIO, Chandigarh <i>Selective detection of toxic heavy metalloids using carbonaceous nanostructured materials</i> P. Chakraborty, BARC, Mumbai <i>Liquid metal corrosion studies in ferritic/martensitic steels in lead lithium eutectic for fusion energy applications</i> Shibin Krishna, NPL, New Delhi <i>Design and fabrication of optoelectronic devices based on III-nitride semiconductors</i>
15.00 – 16.00 hrs	Student Project Talks: Amartya Acharya, SIT, Darjeeling <i>Study of relaxation dynamics of lithium-ion conducting glassy nanocomposites</i> Anil Chamuah, SIT, Darjeeling <i>Investigations of electrical and dielectric properties of chalcogenide glassy alloys</i> Swarupa Ojha, Om Dayal Group of Institutions <i>Study of electrical relaxation of some transition metal ion doped chalcogenide glass-nanocomposites</i>
16.00 – 16.30 hrs	Tea Break
16:30 – 18:30 hrs	Parallel Theme Sessions IV
Theme Session B3	Biomaterials, Soft matter, Ceramic & Devices <i>at M N Saha Auditorium</i>
	IT-B08: Prof. Samir Kumar Pal, SNBNCBS, Kolkata <i>Crucial interfacial dynamics of “Soft-Hard” nanohybrids for emerging biomedical functionalities</i>
	IT-B09: Prof. Kaushik Biswas, IIT-KGP <i>Lanthanum hexaaluminate system: Alternative TBC material</i>
	IT-B10: Dr. Subinoy Rana, IISc-Bangalore

Diagnostic and delivery applications of functionalized nanomaterials

IT-B11: Dr. Jui Chakraborty, CGCRI, Kolkata

The excellence and wonders of nano/meso glass in healthcare

Theme Session C3 Computational Materials Science

at Room No. 104

IT-C11: Prof. Prabal Maiti, IISc Bangalore

Proton kinetic energy anomaly and anomalous dielectric constant of confined water

IT-C12: Prof. Priya Mahadevan, SNBNCBS Kolkata

Electronic structure of twisted transition metal dichalcogenide bilayers

IT-C13: Prof. Pranab Sarkar, Visva-Bharati, Santiniketan

In-silico design of functional materials

IT-C14: Prof. Amlan Dutta, IIT Kharagpur

Deformation behavior of iron nanopillars: An atomistic perspective

IT-C15: Dr. Sandeep Nigam, BARC Mumbai

Atomic scale material designing for energy applications

Theme Session D3 Thin films, Surfaces and Interfaces

at APC Roy Seminar Hall

IT-D09: Dr. Sudipta R. Barman, UGC-DAE CSR, Indore

Self-assembled 2D quasicrystal

IT-D10: Dr. Biswarup Satpati, SINP Kolkata

Simple and cost-effective process of developing a stable surface-enhanced Raman scattering (SERS) substrate

IT-D11: Prof. Rupak Banerjee, IIT-Gandhinagar

Tailoring self-assembly and ligand exchange of nanocrystal superlattices

IT-D12: Dr. Manish Roy, DMRL, Hyderabad

Nanoindentation and nanoscratch response of self-lubrication films

Day IV: 14 February, 2020

10:00 – 13:00 hrs *M N Saha Auditorium*

10.00 – 10.30 hrs **PL5:** Dr. K. Muraleedharan, CSIR-CGCRI, Kolkata

Structural characterisation of materials: Glass & ceramics

10.30– 11.00 hrs **IT-A12:** Prof. G. U. Kulkarni, Centre for Nano and Soft Matter Sciences, Bangalore

Smart windows

11.00 – 11.30 hrs **Tea Break**

11.30 – 11.55 hrs **ML-7:** Dr. Angshuman Nag, IISER, Pune

Do we understand optical transitions in 2D hybrid perovskites?

11.55 – 12.20 hrs **ML-8:** Dr. Parasharam M Shirage, IIT, Indore

Metal oxide materials for multifunctional applications

12.20 – 12.45 hrs **ML-9:** Dr. Suman Lata Jain, Indian Institute of Petroleum, Dehradun

Transformation of molecular photoredox complexes to heterogeneous forms for highly efficient conversion of carbon dioxide to chemicals

12.45 – 14.00 hrs **Lunch**

14.00 – 16.00 hrs **Poster Session**

CP-066 – CP-132

16.00 – 16.30 hrs **Tea Break**

16.30 – Onwards **Concluding Function at M N Saha Auditorium**

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New Members

Enrolled between August and December 31, 2019

Life Members

<p>LMB3115 Dr. Intikhab Aalam Ansari C/o Mohd. Wasim Ansari, H. No 165, Sangam Vihar Colony, Near Awas Vikas Colony, Nandanpura Jhansi (U. P) 284003 (M) : 9450504230 E-Mail : intikhabansari@yahoo.com</p>	<p>LMB3116 Dr. Raminder Kaur Department of Polymer Science & Chemical Technology, Department of Applied Chemistry, Delhi Technological University, Shahbad Davlatpur, Bawana Road, Delhi 110042 (M) : 9717212152 E-Mail : rkwalia14@gmail.com</p>	<p>LMB3117 Dr. Poonam Singh Department of Applied Chemistry, Delhi Technological University, Shahbad Davlatpur Village, Rohini Delhi 110042 (M) : 9871957553 E-Mail : poonam@dtu.ac.in</p>
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CALENDAR OF EVENTS

January 27-18, 2020 , Novel Advancements in Applied Chemical Sciences, Dr. Shobhana Sharma, Convener, Email: shobhana.sharma51@gmail.com
January 30-31, 2020 , 21st National Convention of electrochemists (NCE21) at VIT Chennai , website: www.saest.com
April 13-14, 2020 , World Congress & Expo meet on Polymer Science & Chemical Technology (2020) Prague, Czech republic, website : https://polymerscience.scientificmeeticon.com/
July 19-25, 2020 , 28 th International Conference on Composites of Nano Engineering (ICCE-28), Prague, Czech Republic, website : www.icce-nano.org
August 30-Sep 03, 2020 , 17 th IUMRS-ICEM, Iguassu Falls, Brazil, website : WWW.SBPMAT.ORG.BR
September 18-20, 2020 , 5 th IUMRS-ICYRAM 2020, Warsaw University of Technology (WUT), Warsaw, conference chairs, Profs. RPH Chang, Fusheng PAN, Peter WELLMANN

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”

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