



# MRSI Newsletter

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

**Volume B 13 Number 1**

**January 2013**

## From the Editors' Desk

Global demand for low cost, efficient and sustainable energy production is increasing day by day. Principal areas such as solar cells, batteries & supercapacitors, hydrogen storage, fuel cells & fuels, thermoelectric and light emitting diodes have fascinated material scientists. One of the vital components is the materials development. With the advent of nanomaterials, materials research plays an important role to meet the future energy needs. To express the significance of the field, a theme symposium on Advanced Materials for Energy Applications along with the **Twenty Fourth Annual General Body Meeting** of MRSI is being organized at the Sarabhai Auditorium, IGCAR, Kalpakkam during **11-13<sup>th</sup> February 2013**. The details of the programme of the meeting are provided in this issue.

The editor takes this opportunity to wish all the members of MRSI a very happy, prosperous year ahead.

**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](http://www.mrsi.org.in)**

## In this issue

From the Editors' Desk	1
Awards and Distinctions	2
Notice-AGBM	2
MRSI Awards for 2013	3
MRSI AGM Tentative Programme	4
IUMRS-ICA 2013	6
New Members	7
Calendar of Events	8
Patron Membership	9

## MRSI NEWSLETTER

**Volume B 13, Number 1**  
**January 2013**

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:

*Editors*

## **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.

<b>R N Basu</b>	National Metallurgist of the Day Award (2011) under Energy, Environment and Waste Management (conferred by Ministry of Steel, Govt. of India)
<b>K. Bhanu Sankara Rao</b>	National Metallurgist Award from Ministry of Steel, Government of India

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

### **NOTICE**

#### **ANNUAL GENERAL BODY MEETING OF MRSI**

The **Twenty Fourth Annual General Body Meeting** of MRSI will be held on **11<sup>th</sup> February 2013** between **18.00-19.00 hrs** at the Sarabhai Auditorium, IGCAR, Kalpakkam.

The Agenda for the Meeting is as follows:

- Welcome by the President, MRSI
- Confirmation of the Minutes of the 23<sup>rd</sup> Annual General Meeting and action thereon
- Presentation of the Annual Report for 2012
- Report on International links of Materials Research Society of India
- MRSI-Publications-Report by the Editor
- Award for the Best Paper published in Bulletin of Materials Science
- Presentation of the Statement of Accounts for 2012
- Election of Honorary Members
- Venue for the 25<sup>th</sup> AGM, 28<sup>th</sup> Council Meeting (2014) & 26<sup>th</sup> AGM, 29<sup>th</sup> Council Meeting (2015)
- Items from the members
- Hosting of IUMRS-ICA 2013 in Bangalore, India
- Any other matter

***Kindly communicate the details of the AGBM to all the members of MRSI.***

## **MRSI AWARDS FOR 2013**

The MRSI Awards and Prizes for the year 2013 have been announced. The awardees will deliver lectures at the 24<sup>th</sup> AGM of MRSI to be held IGCAR, Kalpakkam during February 11-13, 2013.

<b>International Medal for Materials Science and Technology</b>	Prof. Sir. Richard Friend, Cambridge University, UK
<b>Distinguished Materials Scientist of the year award</b>	Dr. T Ramasami, DST, New Delhi
<b>MRSI Distinguished Lecturership Award</b>	Dr. Suresh Das, NIIST, Thiruvananthapuram
<b>CNR Rao Prize Lecture in Advanced Materials</b>	Prof. M K Sanyal, SINP, Kolkata
<b>MRSI-ICSC Superconductivity &amp; Materials Science Annual Prizes</b>	Dr. M P Janawadkar, IGCAR, Kalpakkam Dr. R Muralidharan, SSPL, Delhi
<b>MRSI Medal Awardees</b>	
Dr. Subi Jacob George, JNCASR, Bangalore	Prof. Jyotsna Dutta Majumdar, BESU, Shibpur
Prof. Aninda Jiban Bhattacharyya, IISc, Bangalore	Dr. G Amarendra, IGCAR, Kalpakkam
Dr. Sabu Thomas, M G University, Kottayam	Dr. Kulamani Parida, Institute of Minerals and Materials Technology, Bhubaneswar
Dr. Kota Murali, IBM India, Bangalore	Prof. Nikhil K Singha, IIT, Kharagpur
Dr. Sheela Berchmans, CERI, Karaikudi	Dr. S K Gupta, BARC, Mumbai
Dr. G Padmanabham, ARCI, Hyderabad	Dr. Lakshmi Kantam, IICT, Hyderabad
Dr. A M Biradar, NPL, New Delhi	

**24<sup>th</sup> ANNUAL GENERAL MEETING OF MRSI AND THEME SYMPOSIUM ON**

**ADVANCED MATERIALS FOR ENERGY APPLICATIONS**

**FEBRUARY 11-13, 2013**

**INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH, KALPAKKAM**

**TENTATIVE PROGRAMME**

<b>FEBRUARY 11, 2013</b> <b>Venue: Sarabhai Auditorium</b>	10.15-11.00 hrs	<b>Prof. R C Budhani</b> , NPL, New Delhi <i>CSIR Initiatives for Conversion of Solar Radiation into Electricity</i>
09.00 hrs		
09.30-10.30 hrs		
10.30-11.00		
11.00-13.00 hrs		
11.00-12.00 hrs		
12.00-13.00 hrs		
13.00-14.00 hrs		
14.00-15.30 hrs		
14.00-14.45 hrs		
14.45-15.30 hrs		
15.30-16.00 hrs		
16.00-17.30 hrs		
17.30-18.00 hrs		
18.00-19.00 hrs		
19.30 hrs		
<b>FEBRUARY 12, 2013</b> <b>Venue Sarabhai Auditorium</b>		
09.30-11.00 hrs		
09.30-10.15 hrs		
	10.15-11.00 hrs	<b>Prof. R C Budhani</b> , NPL, New Delhi <i>CSIR Initiatives for Conversion of Solar Radiation into Electricity</i>
	11.00-11.30 hrs	<b>Tea</b>
	11.30-13.00 hrs	<b>Technical Session-IV</b> <b>MRSI-ICSC Superconductivity and Materials Science Annual Prizes</b>
	11.30-12.15 hrs	<b>Dr. R Muralidharan</b> , SSPL, Delhi <i>Epitaxial growth and characterization of AlGaAs/InGaAs/GaAs and AlFaN/GaN heterostructures</i>
	12.15-13.00 hrs	<b>Dr. M P Janawadkar</b> , IGCAR, Kalpakkam Title awaited
	13.00-14.00 hrs	Lunch
	14.00-15.30 hrs	<b>Technical Session-V</b> <b>Medal lectures</b>
	14.00-14.30 hrs	<b>Dr. Subi Jacob George</b> , JNCASR, Bangalore <i>Functional Organic and Hybrid Materials via Self-Assembly</i>
	14.30-15.00 hrs	<b>Prof. Aninda J Bhattacharyya</b> IISc, Bangalore <i>Materials for building electrochemical energy storage systems for large scale applications</i>
	15.00-15.30 hrs	<b>Prof. Nikhil K Singha</b> , IIT, Kharagpur <i>Tailor made functional materials by controlled radical polymerization</i>
	15.30-16.00 hrs	Tea
	16.00-17.30 hrs	<b>Technical Session VI</b> <b>Medal Lectures</b>
	16.00-16.30 hrs	<b>Dr. Kota Murali</b> , IBM, India Bangalore <i>Challenges in 22nm and beyond Nanoelectronic Devices</i>
	16.30-17.00 hrs	<b>Dr. Jyotsna Dutta Majumdar</b> , IIT, Kharagpur <i>Laser Surface Engineering of Ti-6Al-4V for Bio-implant Application</i>

17.00-17.30 hrs ML 6	<b>Dr. G Padmanabham</b> , ARCI, Hyderabad <i>Some microstructural effects in laser processing of materials</i>	14.30-15.00 hrs ML 11	<b>Dr. Sabu Thomas</b> , M G University, Kottayam <i>Viscoelastic phase separation process in epoxy based blends and the development of micro and nanomorphologies</i>
17.30-19.00 hrs	<b>Poster Session-II</b>		
19.00-20.00 hrs	<b>Evening Lecture</b> <b>Dr. Anil Kakodkar</b> , DAE, Mumbai <i>Development of solar energy in India</i>	15.00-15.30 hrs ML 12	<b>Dr. S K Gupta</b> , BARC, Mumbai <i>Development of high mobility cobalt and iron phthalocyanine thin films</i>
<b>February 13, 2013</b> <b>Venue Sarabhai Auditorium</b>		15.30-16.00 hrs	<b>Tea</b>
09.30-11.00 hrs	<b>Technical Session-VII</b> <b>Advanced materials for energy applications -II</b>	16.00-17.00 hrs	<b>Technical Session –X</b> <b>G C Jain Memorial Lectures</b>
09.30-10.15 hrs	<b>Dr. Baldev Raj</b> , IGCAR, Kalpakkam <i>Materials for Fast and Fusion Reactors</i>	1	<b>Dr. P Shima Damodaran</b> , ICMD, France <i>Nanofluids with tunable and extraordinary thermal properties</i>
10.15-11.00 hrs	<b>Prof. Satish Vitta</b> , IIT, Mumbai <i>Thermoelectric Materials</i>	2	<b>Dr. Soumen Samanta</b> , BARC, Mumbai Title awaited
11.00-11.30 hrs	Tea	3	<b>Dr. Sanjay Singh</b> , DAE- CSR, Indore Title awaited
11.30-13.00 hrs	<b>Technical Session VIII</b> <b>Medal Lectures</b>	17.00-18.00 hrs	<b>Technical Session-XI</b> <b>Medal Lectures</b>
11.30-12.00 hrs ML 7	<b>Dr. A M Biradar</b> , NPL, New Delhi <i>Storage devices based on ferroelectric liquid crystal materials</i>	17.00-17.30 hrs ML 13	<b>Dr. Lakshmi Kantam</b> , IICT, Hyderabad Title awaited
12.00-12.30 hrs ML 8	<b>Dr. Sheela Berchmans</b> , CERI, Karaikudi <i>Building Bioelectrochemical Interfaces with Functional Materials</i>	17.30-18.00 hrs ML 14	<b>Prof. R Vijayaraghavan</b> , VIT University, Vellore <i>p-type and n-type conducting oxides: Role of Materials chemistry for device fabrication</i>
12.30-13.00 hrs ML 9	<b>Dr. G Amarendra</b> , IGCAR, Kalpakkam Title waited	18.00-18.30 hrs	Concluding session
13.00-14.00 hrs	Lunch		
14.00-15.30 hr	<b>Technical Session IX</b> <b>Medal Lectures</b>		
14.00-14.30 hrs ML 10	<b>Dr. Kulamani Parida</b> , Instt. of Minerals and Materials Technology, Bhubaneswar <i>Design and Development of visible light sensitive photocatalytic materials for energy and environmental applications</i>		

**For further details contact:**

**The Secretariat, 24<sup>th</sup> AGM of MRSI, Materials Science Group, IGCAR, Kalpakkam 603 102, Tel No. 044 - 27480500 - Ext 22442, Fax No. 044- 27480081, E-mail : mrsiagm2013@igcar.gov.in**



# IUMRS – ICA 2013

December 16-20, 2013  
Indian Institute of Science  
Bangalore 560 012, India



## Conference Chair

Prof. S B Krupanidhi  
Materials Research Centre  
Indian Institute of Science  
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India

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## IMPORTANT DATES

**Preregistration opens : 1<sup>st</sup> February 2013**

**Abstract Submission opens : 1<sup>st</sup> May 2013**

**Abstract Submission closes : 31<sup>st</sup> July 2013**

**Communication of  
acceptance of Abstracts : 2<sup>nd</sup> September 2013**

**Online registration with  
payment opens : 1<sup>st</sup> Aug 2013**

**Online registration with  
payment closes : 15<sup>th</sup> November 2013**

**On behalf of the International Union of Materials Research Societies, Materials Research Society of India cordially invites you to the International Conference in Asia- 2013 (IUMRS-ICA 2013). This conference will be organized at Indian Institute of Science, Bangalore 560 012, India, under the aegis of MRSI. The conference will provide a platform for the Asian scientists to present and deliberate cutting edge research and development in the field of materials science and forge international collaboration.**

## New Members

Enrolled between September 1 December 31, 2012

### Life Members

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**CALENDAR OF EVENTS**  
**(JAN 2013-DEC 2013)**

**8-10 January 2013**, National Conference on luminescence and its applications (NCLA 2013), Dr. K.R.Nagabhushana, Convener, NCLA 2013, Department of Science and Humanities, P.E.S. Institute of Technology, an Autonomous Institute under VTU, Belgaum & UGC, New Delhi), 100 ft Ring Road, B.S.K. III stage, Bangalore-560 085, Phone (off): +91-80-26722108, 26721983, 26724781, +91-80- 26724782 Extn. 240, Cell: +91 9481037231, Email: ncla2013@gmail.com, bhushankr@gmail.com, Web: www.ncla2013.pes.edu

**01-02 February, 2013**, International Conference in Recent Trends in Applied Physics and Material Science, RAM 2013, Dr. Sudhir Bhardwaj, Convener, Govt. College of Engineering and Technology, Karni Industrial Area, Pugal Road, Bikaner 334 004, Mobile : 91-9351672524, +91-9414486278, Email: [ram2013india@gmail.com](mailto:ram2013india@gmail.com), Website: [www.ram2013.com](http://www.ram2013.com)

**11-13, February 2013**, 24<sup>th</sup> Annual General Meeting of MRSI, IGCAR, Kalpakkam. 24<sup>th</sup> AGM Secretariat, IGCAR, Kalpakkam 603 102, Tel No. 044-2740500-Ext. 2442, Fax No. 044-27480081, Email: [mrsiagm2013@igcar.gov.in](mailto:mrsiagm2013@igcar.gov.in), website: <http://www.igcar.gov.in/mrsi/agm2013>

**16-20, December, 2013**, IUMRS International Conference in Asia (IUMRS-ICA 2013), Indian Institute of Science, Bangalore 560 012, India, Website: [www.iumrs-ica2013.org.in](http://www.iumrs-ica2013.org.in)

**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”.**

## **Patron Membership**

Professional Societies, Research bodies, Laboratories and Companies willing to support activities of MRSI (through a one-time contribution of Rs. 50,000/- are enrolled as Patron members by the Council of the MRSI.

### **Privileges of Patron Members:**

- Publication of their names in MRSI Newsletter
  - Bulletin of Materials Science / MRSI Newsletter
  - MRSI Update
- Free supply of all periodicals published by MRSI such as:

-	Symposium proceedings at prices applicable to members
-	Display of Company Literature free of charge at MRSI meetings
-	Discounts on advertisements in Newsletter
-	Advance notification of programmes and events
-	Free employment Advertisements in the MRSI Newsletter
-	Registration of 2 company representatives in each society meeting at member registration rates

*We appeal to all organizations /laboratories/companies involved in the R&D/Educational activities of Materials Science and Technology to become Patron members.*

***Request for Patron membership may be made to:***

**Prof. S B Krupanidhi**  
**General Secretary, MRSI**  
**Materials Research Centre**  
**Indian Institute of Science**  
**Bangalore 560 012**  
**Email : svsmrsi@physics.iisc.ernet.in**

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