



# MRSI Newsletter

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

**Volume B 13 Number 4**  
**Volume B 14 Number 1**

**October 2013**  
**January 2014**

## From the Editors' Desk

MRSI congratulates Professor C. N. R. Rao on being conferred the highest civilian award of India, Bharat Ratna. Professor Rao is also the first Indian scientist to be elected to the prestigious Chinese Academy of Sciences as honorary foreign member. The Academy consists of several Nobel laureates and eminent scientists of the world.

MRSI proudly notes that although there are different engineering branches—such as mechanical, electrical, civil, chemical, electrical communications, aerospace, computer—materials engineers and scientists have bagged the prestigious Shanti Swarup Bhatnagar prize third time in a row (2011, 2012 & 2013) and all of them are from Indian Institute of Science. MRSI congratulates all the winners for the recognition.

MRSI also takes the opportunity to congratulate all MRSI medal winners. The award will be presented in **Twenty Fifth Annual General Body Meeting** of MRSI that is being organized at the J. N. Tata Auditorium, Indian Institute of Science, Bangalore during **12-14<sup>th</sup> February, 2014**. The details of the programme of the meeting are provided in this issue.

By wishing all the members of MRSI a very happy and prosperous new year, I pray almighty that materials scientists of India flourish in their endeavor and bag few international awards in the coming years.

**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)**

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## MRSI NEWSLETTER

**Volume B 13, Number 4 October 2013 and  
Volume B 14, Number 1 January 2014**

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>C N R Rao</b>	'Bharat Ratna', Government of India (2013)
<b>Ram Prakash Singh</b>	Elected President, Indian Academy of Social Services
<b>A Ghosh</b>	Fellow, Indian National Science Academy
<b>Khodidas Kundariya</b>	BHARAT JYOTI AWARD, India International friendship society (2013)

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

## **MRSI-AGM 2014**

**Indian Institute of Science, Bangalore, India  
February 12-14, 2014**

**Theme Symposium:  
Electronic Materials for Energy and Environment**

The 25<sup>th</sup> AGM of the MRSI (MRSI-AGM 2014) will be held at the Indian Institute of Science, Bangalore during February 12-14, 2014, being organized by Materials Research Society of India (MRSI),.

The AGM would include Medal Lectures, MRSI honor Lectures and MRSI-ICSC Awards Lectures along with contributed poster papers covering the latest works of materials science community of the country. MRSI AGM-2014 would also include a theme symposium on *Electronic Materials for Energy and Environment*. The MRSI-AGM will take stock of the latest developments in the field of materials worldwide and within the country as well and to formulate guidelines for further research and development in the country.

Members of MRSI and other scientists/technologists/ students are encouraged to upload abstracts online of contributed papers. The website is <[www.mrsi.org.in/agm2014/](http://www.mrsi.org.in/agm2014/)>

### **For further details:**

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## **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 before **October 31<sup>st</sup> 2014**. 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.

## **MRSI AWARDS FOR 2014**

The MRSI Awards and Prizes for the year 2014 have been announced. The awardees will deliver lectures at the 25<sup>th</sup> AGM of MRSI to be held at Indian Institute of Science, Bangalore 560 012 during February 12-14, 2014.

<b>Distinguished Materials Scientist of the year award</b>	Prof. D Chakravorty (IACS, Kolkata)
<b>CNR Rao Prize Lecture in Advanced Materials</b>	Prof. U Ramamurty (IISc, Bangalore)
<b>MRSI-ICSC Superconductivity &amp; Materials Science Senior Award</b>	Dr. A K Tyagi (BARC, Mumbai)
<b>MRSI-ICSC Superconductivity &amp; Materials Science Annual Prizes</b>	Dr. Goutam De (CGCRI, Kolkata) Dr. V P S Awana (NPL, New Delhi) Dr. Shrikant V Joshi (ARC-I, Hyderabad) Dr. Navin Chand (AMPRI, Bhopal)
<b>MRSI Silver Jubilee Medal</b>	Dr. Satish Ogale (NCL, Pune) Dr. G P Das, IACS, Kolkata Dr. Pushpito K Ghosh (CSMCRI, Bhavnagar) Prof. P S Anil Kumar (IISc, Bangalore)
<b>MRSI Medal Lectures</b>	Dr. Satish Patil (SSCU, IISc, Bangalore) Dr. N Karak (Tezpur University, Tezpur) Prof. T K Maji (JNCASR, Bangalore) Prof. Alokmay Datta (SINP, Kolkata) Prof. Shyamal Kumar Saha ( IACS,Kolkata) Dr. N. Kalaiselvi (CERI, Karaikudi) Dr. Pankaj Poddar ( NCL, Pune) Prof. Nandita DasGupta (IIT, Madras) Dr. Anoop Mukhopadhyay (CGCRI, Kolkata) Prof. Manjunatha Pattabi (Mangalore University, Mangalore) Prof. T P Sinha, Bose Institute, Kolkata Dr. K K Chattopadhyay (Jadavpur University, Kolkata) Dr. S C Gadkari (BARC, Mumbai) Dr. Sangeeta Kale (DIAT, Pune) Dr P Prabhakar Rao (NIIST, Trivandrum) Dr K Nagarajan (IGCAR, Kalpakkam) Prof. Rabibrata Mukherjee (IIT, Kharagpur) Dr. R Gopalan (ARC-I, Hyderabad) Dr. N R Munirathnam, (C-MET, Hyderabad) Prof. Abhishek Singh (IISc, Bangalore) Prof. Ashish Garg, IIT, Kanpur

## 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:*

<u>Guidelines</u>	<u>Application Form</u> <span style="float: right; border: 1px solid black; padding: 2px;">photo</span>
<p>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.</p> <p>2. Criteria for Selection</p> <p>-Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2012,2013 for the current prize)</p> <p>-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.</p> <p>-Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.</p> <p>-The shortlisted theses will be selected after peer reviewing during November/December. Such shortlisted theses work must be presented by the students concerned in poster/oral format at the next AGM of MRSI. The final selection will be done at the AGM by a suitably constituted committee.</p> <p>3) The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.</p> <p>4) Application in the prescribed format reproduced alongside should be sent to the Secretary, Materials Research Society of India, Indian Institute of Science Campus, Bangalore 560 012 so as to reach him on or before <b>October 31<sup>st</sup>, 2013.</b></p>	<p style="text-align: center;"><b><u>G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science</u></b></p> <p><b>1. Name of the Applicant</b></p> <p><b>2. Address</b> Office Residence Telephone Fax Email</p> <p><b>3. Academic Record</b> (in brief) (Degree/year of passing/University)</p> <p><b>4. Title of the Ph.D Thesis:</b></p> <p>a. The discipline or subject in which the Ph.D degree was awarded</p> <p>b. Name of the University/Laboratory /Institute where the Ph.D work was carried out</p> <p>c. Name of the Research Supervisor</p> <p>d. Date of submission of the thesis</p> <p>e. Date of Award of Ph.D</p> <p>f. One page write-up of the thesis highlighting the prime results (to be enclosed) <span style="float: right;">enclosed/not enclosed</span></p> <p><b>5. Recommendation Letters</b> (from the thesis supervisor and 2 other experts) (to be enclosed) <span style="float: right;">enclosed/not enclosed</span></p> <p><b>6. List of Publications based on the thesis work</b> in Journals, Reports, Conferences, Patents (to be enclosed) Give Title of the Paper, Authors, Journal, Vol / Page/ Year for Journal Publications <span style="float: right;">enclosed/not enclosed</span></p> <p><b>Any additional information</b></p> <p style="text-align: center;">Date : <span style="float: right;">Signature</span></p>

# 25<sup>th</sup> ANNUAL GENERAL MEETING OF MRSI AND THEME SYMPOSIUM ON

## ELECTRONIC MATERIALS FOR ENERGY AND ENVIRONMENT

FEBRUARY 12-14, 2014

INDIAN INSTITUTE OF SCIENCE, BANGALORE

### TENTATIVE PROGRAMME

<b>FEBRUARY 12, 2014</b>			
08.30-09.00 hrs	<b>Registration</b>	16.15-17.30 hrs	<b>Felicitation of Prof. CNR Rao</b>
09.00-09.30 hrs	<b>Inaugural function</b>	17.30-18.00 hrs	High tea
09.30-10.30 hrs	<b>Distinguished Materials Scientist of the year Award Lecture</b> Prof. D Chakravorty, IACS, Kolkata <i>Multifunctional Nanocomposites</i>		
10.30-11.00 hrs	High Tea		
11.00-11.45 hrs	<b>CNR Rao prize lecture in advanced Materials</b> Prof. U Ramamurty, IISc, Bangalore Title awaited		
11.45-12.30 hrs	<b>MRSI-ICSC Superconductivity and Materials Science Senior Award</b> Dr. A K Tyagi, BARC, Mumbai Title awaited		
12.30-13.30 hrs	Lunch		
13.30-14.30 hrs	<b>Theme Session</b> <b>Electronic Materials for Energy and Environment</b> Dr. D D Sarma, IISc, Bangalore Title awaited		
	Dr. Suresh Das, NIIST, Thiruvananthapuram Title awaited		
14.30-16.00 hrs	<b>MRSI Silver Jubilee Medal Lectures</b>		
14.30-15.00 hrs	Dr. Satish Ogale, NCL, Pune <i>Search for Innovative Nanotech Solutions for Energy Conversion and Storage Problems</i>		
15.00-15.30 hrs	Dr. G P Das, IACS, Kolkata <i>Designing Materials for Efficient Storage of Hydrogen : from Complex Hydrides to Functionalized Nanostructures</i>		
15.30-16.00 hrs	Dr. Pushpito K Ghosh, CSMCRI, Bhavnagar <i>Materials development with eye on application and value addition of indigenous resources</i>		
			<b>FEBRUARY 13, 2014</b>
		08.30-10.30 hrs	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prizes</b>
		08.30-09.00 hrs	Dr. Goutam De, CGCRI, Kolkata <i>Designing Nanostructured Materials and Coatings by Sol-Gel Templating</i>
		09.00-09.30 hrs	Dr. V P S Awana, NPL, New Delhi <i>Superconductivity from High T<sub>c</sub> Cuprates to Fe based Pnictides and the hidden connection</i>
		09.30-10.00 hrs	Dr. Shrikant V Joshi, ARCI, Hyderabad SOLUTION PRECURSOR PLASMA SPRAYING: TAILORING MICROSTRUCTURES THROUGH IMPROVED PROCESS UNDERSTANDING
		10.00-10.25 hrs	<b>MRSI Medal Lecture</b> Dr. M Lakshmi Kantam, ICT, Hyderabad <i>Synthesis, characterization and evaluation of nanocrystalline magnesium oxide stabilized gold nanoparticles</i>
		10.25-10.45 hrs	Tea
		10.45-11.15 hrs	<b>MRSI Silver Jubilee Medal</b> Prof. P S Anil Kumar, IISc, Bangalore <i>Materials for Spin Injection into semiconductors</i>
		11.15-12.55 hrs	<b>MRSI Medal Lectures</b>
		11.15-11.40 hrs	Dr. Sangeeta Kale, DIAT, Pune <i>Tuning the property-space and assembly of hybrid conjugates for healthcare applications; especially for cancer hyperthermia and controlled-drug-releas</i>

11.40-12.05 hrs	Prof. N Karak, Tezpur University, Tezpur <i>HYPERBRANCHED POLYMER NANOCOMPOSITES FOR MULTIFACETED APPLICATIONS</i>	09.20-09.45 hrs	Prof. Nandita DasGupta, IIT, Chennai <i>Ultrathin Gate Dielectrics for MOS Devices</i>
12.05-12.30 hrs	Dr. R Gopalan, ARCI, Hyderabad <i>Functional materials in automotive applications, state of the art and prospects</i>	09.45-10.10 hrs	Dr. A K Mukhopadhyay, CGCRI, Kolkata <i>Contact Damage in Brittle Solids</i>
12.30-12.55 hrs	Prof. Rabibrata Mukherjee, IIT, Kharagpur <i>Patterning beyond the Master: Some Recent Advances in Soft Lithography</i>	10.10-10.35 hrs	Prof. Manjunatha Pattabi Mangalore University, Mangalore <i>Evaporated Silver Particulate Films on Rigid and Softenable Substrates</i>
13.00-14.00 hrs	Lunch	10.35-11.00 hrs	Tea
14.00-15.30 hrs	<b>Poster Session</b>	11.00-11.25 hrs	<b>MRSI Medal lectures</b> Dr. K K Chattopadhyay, Jadavpur University, Kolkata <i>METAL OXIDE AND GRAPHNE BASED NOVEL NANOSTRUCTURES FOR EFFICIENT COLD CATHODE AND PHOCATALYSIS APPLICATIONS</i>
15.30-15.45 hrs	Tea	11.25-11.50 hrs	Dr. S C Gadkari, BARC, Mumbai <i>Single crystals and devices for nuclear industry</i>
15.45-17.25 hrs	<b>MRSI Medal lectures</b>	11.50-12.15 hrs	Prof. Satish Patil, IISc, Bangalore <i>Design Principle for Increasing Charge Carrier Mobility of Conjugated Polymers</i>
15.45-16.10 hrs	Prof. Alokmay Datta, SINP, Kolkata <i>The Metal-Organic Interface in Soft Materials</i>	12.15-12.40 hrs	Dr. P Prabhakar Rao, NIIST, Thiruvananthapuram <i>Investigations on Complex Ceramic Oxides of Pyrochlore and Scheelite Type Structures towards Realization of Novel Functional Materials</i>
16.10-16.35 hrs	Dr. Shyamal Kumar Saha, IACS, Kolkata <i>Graphene: A complete material for future technology</i>	12.40-13.05 hrs	Dr. K Nagarajan, IGCAR, Kalpakkam <i>Thermochemical and electrochemical studies on the materials and processes of interest in nuclear technology</i>
16.35-17.00 hrs	Dr. N Kalaiselvi, CERI, Karaikudi <i>Lithium intercalating electrode materials for energy storage applications</i>	13.05-14.15 hrs	Lunch
17.00-17.25 hrs	From Industry	14.15-15.45 hrs	<b>G C Jain Memorial Lectures</b>
17.30-17.45 hrs	Tea	15.45-16.00 hrs	Tea
17.45-18.30 hrs	<b>Annual General Body Meeting</b>	16.00-16.25 hrs	<b>MRSI Medal lectures</b> Prof. T K Maji, JNCASR, Bangalore <i>Multifunctional PorousSolid: Interplay of Structural Tunability Regularity and Flexibility</i>
18.30-19.00 hrs	Awards Distribution	16.25-16.50 hrs	Dr. N R Munirathnam, C-MET, Hyderabad <i>Ultra high purification of Semiconductor materials for optoelectronic devices</i>
19.00 hrs	Dinner		
<b>February 14, 2014</b>			
08.30-10.35 hrs	<b>MRSI Medal lectures</b>		
08.30-08.55 hrs	Prof. T P Sinha, Bose Institute, Kolkata <i>Optical dielectric constant of perovskite oxides</i>		
08.55-09.20 hrs	Dr. Pankaj Poddar, NCL, Pune <i>Spin-spin interaction, spin-transport, dielectric and Raman Study of Magnetic, Ferroelectric, Multiferroic and Rare-Earth-Free Hard Magnetic Materials in Finite Dimensions</i>		

16.50-17.15 hrs	Prof. Abhishek Singh, IISc, Bangalore <i>Tuning Electronic Properties of Semiconducting Transition Metal Dichalcogenides</i>	<div style="border: 1px solid black; padding: 10px;"> <p>25<sup>th</sup> AGM Secretariat, Prof. S B Krupanidhi, Materials Research Society of India, Indian Institute of Science Campus, Bangalore 560 012  Tel : 080-22932882, Fax: 080-23602028, Email: office@mrsi.org.in, Webmail: www.mrsi.org.in/agm2014/</p> </div>
17.15-17.45 hrs	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prize</b> Dr. Navin Chand, AMPRI, Bhopal <i>Mystery of Natural Fibres -a Source of Nano Cellulosic Fibres and Their Future Applications</i>	
17.45-18.10 hrs	Prof. Ashish Garg, IIT, Kanpur <i>Gallium Ferrite: A room temperature multiferroic</i>	
18.10-18.25 hrs	<b>Tea</b>	
18.25-18.50 hrs	<b>Concluding Function</b>	

## NOTICE

### ANNUAL GENERAL BODY MEETING OF MRSI

The **Twenty Fifth Annual General Body Meeting** of MRSI will be held on **13<sup>th</sup> February** between 17.45-18.30 hrs at Indian Institute of Science, Bangalore.

The Agenda for the Meeting is as follows:

- Welcome by the President, MRSI
- Confirmation of the Minutes of the 24<sup>th</sup> Annual General Meeting and action thereon
- Presentation of the Annual Report for 2013
- 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 2013
- Election of Honorary Members
- Venue for the 26<sup>th</sup> AGM, 29<sup>th</sup> Council Meeting (2015) & 27<sup>th</sup> AGM, 30<sup>th</sup> Council Meeting (2016)
- Items from the members
- Any other matter

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

# New Members

## Enrolled between July 1, 2013 and December 31, 2013

### Life Members

LMB2195  
Brainerd Samuel Sundar Daniel  
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Chandrakant Madhav Khairnar  
Near illa Stadium  
In front of LTV school  
Near Shriram Apartment, Ramnagar,  
Chandrapur  
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## **CALENDAR OF EVENT** **(FEB 2014)**

12-14, February 2014, 25<sup>th</sup> Annual General Meeting of MRSI, Indian Institute of Science, Bangalore, 25<sup>th</sup> AGM secretariat, Bangalore 560 012, Tel: 080-22932882, Fax: 080-23602028, Email: office@mrsi.org.in, Website: <http://www.mrsi.org.in/agm2014>

**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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