



# MRSI Newsletter

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

Volume B 11, Number 1

January 2011

## From the Editors' Desk



As Sir Cyril Norman Hinshelwood (Nobel Prize in Chemistry, 1956) said;

*"Chemistry: that most excellent child  
of intellect and art"*

Chemistry has always been an indispensable contributor to materials science. The major class of products produced by chemical industry such as pharmaceutical, polymers and agricultural chemicals directly contributes to materials science. The international Union for Pure and Applied Chemistry (IUPAC) and the United Nations Educational Scientific and cultural organization (UNESCO) have designated 2011 as the international year of chemistry (IYC2011). These organizations strongly believe that it is time to celebrate the achievements of chemistry and its contributions to the mankind. The year 2011 also marks the centenary year of the Nobel Prize in chemistry awarded to Marie Curie, recognizing her services to the advancement of chemistry and the discovery of radium and polonium. Worldwide, a variety of diverse events will take place to celebrate the achievements of chemistry under the unifying theme of "chemistry—our life, our future". A timeline of the international events can be viewed at: [www.chemistry2011.org](http://www.chemistry2011.org). In India also, a variety of events will take place to celebrate the role of chemistry, promote public appreciation for chemistry and motivate young people in chemistry.

Other than that, the twenty second annual general body meeting will be held at Advanced Materials and Processing Research Institute, Bhopal. The details of the programme of the meeting are provided in this issue. The editors take this opportunity to wish all the members of MRSI a very happy, prosperous year ahead.



**K K Nanda  
Satish Patil**  
Editors

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

**[www.igcar.gov.in/mrsi](http://www.igcar.gov.in/mrsi)**

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## **MRSI NEWSLETTER**

**Volume B 11, Number 1**

**January 2011**

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*

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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.

- Ashutosh Sharma** (i) TWAS Fellowship (2010)  
(ii) Infosys Prize in Engineering and Computer Science (2010)  
(iii) Prof. R. C. Mehrotra Memorial Life Time Achievement Award- Indian Science Congress (2010-2011)
- C K Mahadevan** (i) Tamilnadu Scientist Award - Tamilnadu State Government (2008)  
(ii) Best (College) Teacher Award – Tamilnadu State Government (2008-09)  
(iii) Academic Achievement Award -Kanniyakumari Academy of Arts and Sciences (2010)
- S K Agrawal** Life time Achievement award – The Indian Institute of welding (2010)

*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 Second Annual General Body Meeting** of MRSI will be held on **16<sup>th</sup> February 2011** from 15.30 hrs onwards at the Auditorium, Advanced Materials and Processes Research Institute, Bhopal.

The Agenda for the Meeting is as follows:

- Welcome by the President, MRSI
- Confirmation of the Minutes of the 21<sup>st</sup> Annual General Meeting and action thereon
- Presentation of the Annual Report for 2010
- 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 2010
- Election of Honorary Members
- Venue for the 23<sup>rd</sup> AGM, 26<sup>th</sup> Council Meeting (2011) & 24<sup>th</sup> AGM, 27<sup>th</sup> Council Meeting (2012)
- Items from the members
  - Proposal from Allahabad Chapter of MRSI to hold the next AGM in Allahabad
  - Proposal from Patiala Chapter of MRSI to hold the next AGM in Patiala
- Any other matter
  - Hosting of IUMRS-ICA in Bangalore during 2013

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

**APAM INDIA CHAPTER MEETING AND 22<sup>nd</sup> ANNUAL GENERAL MEETING OF MRSI AND  
THEME SYMPOSIUM ON LIGHTWEIGHT MATERIALS : MONOLITHIC TO COMPOSITES  
FEBRUARY 14-16, 2011  
ADVANCED MATERIALS AND PROCESSES RESEARCH INSTITUTE  
BHOPAL**

**TENTATIVE PROGRAMME**

<b>FEBRUARY 13, 2011</b>		ML 5	Dr. John Philip, IGCAR, Kalpakkam <i>SMART NanoFluids</i>
<b>Venue: Saranjamshala, AMPRI, Bhopal</b>		ML 6	Dr. C Gouri, VSSC, Thiruvananthapuram <i>High Performance Materials for Lithium ion Batteries</i>
14.00-16.00 hrs	<b>APAM India Chapter Meeting</b>	15.30-16.00 hrs	Tea Break
14.00-14.15 hrs	Introductory Remarks	16.00-16.45 hrs	<b>MRSI Distinguished Lecturership Award</b> Prof. Ashutosh Sharma, IIT, Kanpur <i>Self-organized Meso-Fabrication and Functionalities in Highly Confined Soft Materials</i>
14.15-16.00 hrs	APAM Lectures (2 Nos)	16.45-18.15 hrs	<b>Medal Lectures (ML)</b>
16.00-16.30 hrs	Concluding Remarks	ML 7	Prof. M Eswaramoorthy, JNCASR, Bangalore <i>Magnesium phyllo (organo) Silicate: A versatile clay with a variety of applications in materials science</i>
16.30-17.00 hrs	Tea	ML 8	Dr. O S Panwar, NPL, New Delhi <i>Tetrahedral Amorphous Carbon and Amorphous Carbon Films with Embedded Nanoparticles Deposited by Filtered Cathodic Vacuum Arc Technique</i>
<b>FEBRUARY 14, 2011</b>		ML 9	Dr. N Ravishankar, IISc, Bangalore <i>Understanding Growth, Assembly and Patterning of Functional Inorganic Nanostructures</i>
<b>Venue : Auditorium, AMPRI, Bhopal</b>		19.00-21.30 hrs	<b>Cultural Programme and Dinner</b>
08.30-11.00 hrs	<b>MRSI-AGM Registration</b>	<b>February 15, 2011</b>	
09.30-11.00 hrs	<b>Inaugural session</b>	<b>Venue : Auditorium, AMPRI, Bhopal</b>	
09.30	<b>Welcome address</b>	09.00-09.40 hrs	<b>Theme Lecture</b> Dr. Anil Sachdev, General Motors USA
AGM	Dr. Anil K Gupta, Chairman, 22 <sup>nd</sup> MRSI	09.40-10.20 hrs	<b>MRSI-ICSC Superconductivity and Materials Science Senior Award</b> Dr. P R Vasudeva Rao, IGCAR, Kalpakkam <i>Materials Chemistry for Fast reactors and associated fuel cycle</i>
	09.40 <b>Introduction to MRSI AGM</b>	10.20-11.15 hrs	<b>International Medal for Materials Science and Technology</b> Prof. Martin Jansen, Max-Planck Institute for Solid State Research, Stuttgart, Germany <i>Highly Durable Si-B-N-C Ceramics: Paving the Way to Industrial Scale Production</i>
	Prof. S B Krupanidhi, Vice President-General Secretary, MRSI		
09.50	<b>Address by Chief Guest</b>		
	Shri. V K Saraswat Scientific Advisor to Raksha Mantri, Government of India		
10.15-11.00 hrs	<b>Distinguished Materials Scientist of the Year Award Lecture</b>		
	Dr. S Sivaram, NCL, Pune <i>Polymer nanocomposites: molecular approaches to tailoring interfaces</i>		
11.00	Vote of thanks		
11.05-11.15 hrs	Inauguration of Exhibition by the Chief Guest		
11.15-11.45 hrs	High Tea		
11.45-13.15 hrs	<b>Medal Lectures (ML)</b>		
ML 1	Dr. Amitava Mitra, NML, Jamshedpur <i>Development of soft magnetic materials by rapid solidification technique and their applications as sensor</i>		
ML 2	Dr. A K Srivastava, NPL, New Delhi <i>Growth, imaging, spectroscopy and possible applications of nano-structured materials</i>		
ML 3	Dr. Asim Bhaumik, IACS, Kolkata <i>Organic-inorganic hybrid mesoporous materials for luminescence, sensing and catalytic applications</i>		
13.15-14.00 hrs	Lunch		
14.00-15.30 hrs	<b>Medal Lectures (ML)</b>		
ML 4	Dr. Harish C Barshilia, NAL, Bangalore <i>Nanostructured absorber coatings for solar thermal power generation applications</i>		

11.15-11.30 hrs	Tea Break	10.00-11.30 hrs	<b>Medal Lectures (ML)</b>
11.30-12.15 hrs	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prize</b> Prof. D Bahadur, IIT, Mumbai <i>Hybrids and thermosensitive magnetic nanostructures for therapeutic applications</i>	ML 13	Dr. Rajiv Prakash, BHU, Varanasi <i>Conducting polymers and Nanocomposites: Morphology Controlled Synthesis</i>
12.15-13.00 hrs	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prizes</b> Prof. GU Kulkarni, JNCASR, Bangalore <i>Sub 100 nm direct patterning of functional nanomaterials for device fabrication</i>	ML 14	Dr. Arindam Banerjee, IACS, Kolkata <i>Synthetic Self-assembling peptide and amino acid based nanomaterials</i>
13.00-14.00 hrs	Lunch	ML 15	Dr. R Murugavel, IIT, Mumbai <i>Rational Routes to Zeolitic Structures</i>
14.00-15.00 hrs	<b>Poster Session / Exhibition</b>	11.30-12.00 hrs	Tea Break
15.00-15.45 hrs	Prof. L M Manocha, SP Univ, Gujarat <i>Carbon – Old material with new excitements</i>	12.00-13.30 hrs	<b>Poster Session / Exhibition</b>
15.45-17.15 hrs	<b>Medal Lectures (ML)</b>	13.30-14.30 hrs	<b>Lunch</b>
ML 10	Dr. L M Kukreja, RRCAT, Indore <i>Materials science with Lasers: some reminiscences</i>	14.30-15.30 hrs	<b>Concluding session including presentation of G C Jain Memorial Lectures</b>
ML 11	Dr. P S Anil Kumar, IISc, Bangalore <i>The fascinating world of heterostructures: A case study on oxide based ferromagnet-superconductor heterostructures</i>	1.	Dr. Shweta Bhandari, NPL, New Delhi <i>Electrochromic Poly-3,4-(ethylenedioxythiophene) thin films: Syntheses, microstructure, redox behavior and optical studies</i>
ML 12	Dr. Ram Gopal, AU, Allhabad <i>Synthesis of Nanostructured Materials: Pulsed Laser Ablation in Liquid Media</i>	2.	Dr. Sivaprakash, CMERI, Durgapur <i>High Energy Density Layered Oxide Cathode Materials for Lithium Rechargeable Batteries</i>
17.15-17.45 hrs	Tea Break	3.	Dr. Dileep Kumar C J, C-MET, Thrissur <i>Studies on Anorthite And Low Alkali Borosilicate Glasses For Low Temperature Co-fired Ceramic (LTCC) Application</i>
18.00-19.00 hrs	<b>Evening popular public Lecture</b> Prof. CNR Rao, JNCASR, Bangalore Title Awaited	4.	Dr. Ravi Ranjan Pandey, CCMB, Hyderabad Title awaited
20.00 hrs onwards	<b>Conference Dinner</b>	15.30 onwards	<b>MRSI Awards Presentation, Annual General Body Meeting and Valedictory Function</b>
<b>February 16, 2011</b> <b>Venue Auditorium, AMPRI, Bhopal</b>		16.30 hrs	High Tea
09.00-10.00 hrs	<b>CNR Rao Prize Lecture in Advanced Materials</b> Dr. S Banerjee, DAE, Mumbai Title awaited		

**For further details contact :**

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Enrolled between November 1 and December 31, 2010

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## **CALENDAR OF EVENTS**

**(JAN-JUNE 2011)**

**January 10-12, 2011**, International Conference on Research into Design ICoRD'11, Amaresh Chakrabarti, Programme Chair, ICoRD'11, Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore, India, Tel: +91 80 2293 2922, Fax: +91 80 2360 1975, Email: ac123@cpdm.iisc.ernet.in, Website: <http://cpdm.iisc.ernet.in/icord'11>

**February 11-13, 2011**, 16<sup>th</sup> National Seminar on Physics and Technology of Sensors, Dr. Anchal Srivastava, Department of Physics, University of Lucknow, Lucknow-226007 (U.P.) Mobile: 09451309994, Phone: +91 522 2741012-21(Lab Extn.)-4015, +91 522 2740449 (R)

**February 14-16, 2011**, 22<sup>nd</sup> Annual General Meeting of MRSI, AMPRI, Bhopal., Dr. S Das, Convener, MRSI AGM-2011, Scientist 'G', CSIR-AMPRI, Bhopal, Advanced Materials and Processes Research Institute (AMPRI), Hoshangabad Road, Near Habibganj Naka, Bhopal - 462 064 (M.P.), India, Tel. No.: 0755-2488562, Mobile : 09425303176, E-mail : sdas88@hotmail.com, Website: [www.ampri.res.in/mrsi/agm2011](http://www.ampri.res.in/mrsi/agm2011)

**March 8-10, 2011**, World Class Materials and Manufacturing Technologies-M&MT 2011, Bombay Exhibition Centre, Mumbai. For more details refer to the website: [www.asmpune.org/m&mt2011](http://www.asmpune.org/m&mt2011)

**June 26-1 July 2011**, 4<sup>th</sup> International Symposium on Nanodevices and Nanofabrication in ICMAT 2011, Suntec, Singapore. For more details refer to the website: <http://www.mrs.org.sg/icmat2011>

**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:***

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