



# MRSI Newsletter

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

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October 2009

## From the Editors' Desk



Ceramics have the largest range of applications in materials science. The outstanding combinations of thermal, insulating, and mechanical properties have become the basis of enormous applications in the automotive components and related applications. Therefore, ceramic materials have now become the cornerstone of such advanced technologies as energy transformation, storage and supply, information technology, transportation systems, medical technology, and manufacturing technology. The continuing evolution of the ceramics in materials world and the associated materials technologies is accelerating rapidly with each new technological development. However, significant challenges still remain to further develop and improve the properties of these materials, especially in the areas where demanding reliable performance at high temperatures is critically needed. The real driving force for developments in ceramics remains their potential applications. MRSI is organizing a symposium with a theme "Advance Ceramic Materials - Monoliths to Composites". The symposium is aimed at providing a forum for participants from academics, research and development and industrial communities to exchange latest information and progress on various aspects of these materials. The 21st Annual General Body Meeting of MRSI will be held during February 9-11, 2010 at Sardar Patel University, Vallabh Vidyanagar, Gujarat. Details of the meeting are getting finalized and will be available soon. This issue also contains the list of MRSI award winners for the year 2009. The awards will be conferred at the annual general meeting.



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

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## **MRSI NEWSLETTER**

**Volume B 09, Number 4**

**October 2009**

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.

**G Parthasarathy** Decennial Award of Indian Geophysical Union (2009)

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

## Congratulations!

### Prof. Venkatraman Ramakrishnan

Indian-born Prof. Venkatraman Ramakrishnan, a senior scientist at the MRC Laboratory of Molecular Biology at Cambridge, has been awarded the Nobel Prize in Chemistry for 2009 along with Thomas E Steitz (USA) and Ada E Yonath (Israel). The award was conferred on them for their work on the “studies of the structure and function of the ribosome”, one of the core processes in life. Proteins are generated by Ribosomes. The proteins regulate the chemistry in all living organisms. Their research is a milestone that is used by researchers working on to develop new antibiotics. He is associated with Indian Institute of Science. He was also a G N Ramachandran Fellow at the institute.

MRSI expresses its hearty congratulations to Dr. Ramakrishnan on his being honoured with Nobel prize for Chemistry.

## MRSI AWARDS FOR 2010

The MRSI Awards and Prizes for the year 2010 have been announced. The awardees will deliver lectures at the 21<sup>st</sup> AGM of MRSI to be held at S P University, Gujarat during February 9-11, 2010.

### **Distinguished Materials Scientist of the year award**

Prof. S K Joshi, NPL, New Delhi

### **MRSI-ICSC Superconductivity and Materials Science Annual Prizes**

Dr. N Kumar, Defence Laboratory, Jodhpur

Prof. O N Srivastava, BHU, Varanasi

### **CNR Rao Prize Lecture in Advanced Materials**

Prof. S B Krupanidhi, IISc, Bangalore

### **MRSI Medal Awardees**

Dr. S R Burman, UGC-DAE Consortium for Scientific Research, Indore

Dr. P R Harikrishna Varma, SCTIMST, Thiruvananthapuram

Prof. R Murugavel, IIT, Mumbai

Dr. P K Biswas, CGCRI, Kolkata

Prof. D V Khakhar, IIT, Mumbai

Dr. Bharat B Kale, C-MET, Pune

Dr. T Gnanasekaran, IGCAR, Kalpakkam

Dr. D K Aswal, BARC, Mumbai

Prof. B Jagirdar, IISc, Bangalore

Dr. A K Singh, DMRL, Hyderabad

Dr. V P S Awana, NPL, New Delhi

Dr. P K Khanna, C-MET, Pune

Dr. K K Nanda, IISc, Bangalore

Prof. R K Mandal, BHU, Varanasi

## MRSI AGM 2010

The 21<sup>st</sup> AGM of MRSI is being held at Sardar Patel University, Vallabh Vidyanagar, Gujarat during February 9-11, 2010. The AGM would include Medal Lectures, MRSI Honour Lectures and MRSI-ICSC Award Lectures along with the contributed poster papers covering the latest work of materials science community of the country. MRSI-AGM would also include a theme symposium on ‘Advance Ceramic Materials-Monoliths to Composites’. 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.

The first announcement of the 21<sup>st</sup> AGM has been released. Members of MRSI and other scientists/technologists/students are encouraged to send abstracts of contributed papers to: **The 21<sup>st</sup> MRSI AGM Secretariat, Prof. (Mrs) S Manocha, Department of Materials Science, Sardar Patel University, Vallabh Vidyanagar 388 120, Gujarat, Email: agmmrsi21@gmail.com, sm\_manocha@rediffmail.com, manocha52@rediffmail.com**

## 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 Pune Chapter of MRSI. The Guidelines and the Application form are furnished hereunder:

<u>Guidelines</u>	<u>Application Form</u>
	<b>Photo</b>
	<b>G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science</b>
<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> <ul style="list-style-type: none"> <li>- Completion of Ph.D thesis from any recognized Indian University/Research Institute/ National Laboratory within the last two calendar years (2008, 2009 for the current prize)</li> <li>- 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.</li> <li>- Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.</li> <li>- 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.</li> </ul> <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, MRSI so as to reach him on or before <b>October 31<sup>st</sup>, 2009.</b></p>	<p><b>1. Name of the Applicant :</b></p> <p><b>2. Address :</b></p> <p style="padding-left: 20px;">Office</p> <p style="padding-left: 20px;">Residence :</p> <p style="padding-left: 20px;">Telephone :</p> <p style="padding-left: 20px;">Fax :</p> <p style="padding-left: 20px;">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) enclosed/not enclosed</p> <p><b>5. Recommendation Letters</b> (from the thesis supervisor and 2 other experts) (to be enclosed) enclosed/not enclosed</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 enclosed/not enclosed</p> <p><b>7. Any additional information</b></p> <p style="padding-left: 20px;">Date :</p> <p style="text-align: right; padding-right: 20px;">Signature</p>

## New Members

Enrolled between July 1 and September 30, 2009

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## CALENDAR OF EVENTS (OCT 2009-JUNE 2010)

**October 11-14, 2009**, International Conference on Sol-Gel Processes for Advanced Ceramics, Dr. T G Srinivasan, Convener, SGPAC-2009, Indira Gandhi Centre for Atomic Research, Kalpakkam, Email: sgpac2009@gmail.com, tgs@igcar.gov.in, vjram@igcar.gov.in, nkumar@barc.gov.in

**October 12-15, 2009**, Second World Materials Summit on Advanced Materials in Energy Applications and Sustainable Society Development, Suzhou, China, contact: Chinese Materials Research Society, Tel: 86-10-6847-5052, Fax: 86-10-6872-2033, Email: yfhan@buaa.edu.cn, qfeng@ski.ustb.edu.cn, chunrong0625@sina.com.cn

**November 5-6, 2009**, National Conference on Advanced Manufacturing Techniques, Mr. Navdeep Malhotra, Convener, NCAMT 2009, School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra 182 320, Jammu, Tel: 01991-285524, 285535 Ext. 2352, Fax: 01991-285694, 285573, Email: ncamt.nm@smvdu.ac.in, Website: www.smvdu.ac.in

**December 15-19, 2009**, Fifteenth International Workshop on the Physics of Semiconductor Devices, The Secretary, XV IWPSD, Solid State Physics Laboratory, Lucknow Road, Delhi 110 054, Tel: 011-23903474, Fax: 011-23913609, Email: secretary@iwpsd.net, chairman@iwpsd.net

**February 9-11, 2009**, 21st Annual General Meeting of MRSI, Prof. (Mrs) S Manocha, Department of Materials Science, Sardar Patel University, Vallabh Vidyanagar 388 120, Gujarat, Email : agmmrsi21@gmail.com, sm\_manocha@rediffmail.com, manocha52@rediffmail.com

**June 7-10, 2010**, The 9th Asia Pacific Conference on Materials Processing, for further details refer to the website <http://apcmp2010.unsw.edu.au/>

**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”**

## Book Post / Newsletter

From:

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