



# MRSI Newsletter

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

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## From the Editors' Desk

The Nobel Prize for Chemistry for 2011 has been awarded to Daniel Shechtman for the discovery of quasicrystals. **Quasicrystal**, is a structure that is ordered but not periodic. A quasicrystalline pattern can continuously fill all available space but lacks translational symmetry. Bragg diffraction pattern of quasicrystals shows sharp peaks with other symmetry orders, for instance five-fold. According to the classical crystallographic restriction theorem, crystals can possess only two, three, four and six-fold rotational symmetries. Aperiodic tilings were discovered by mathematicians in the early 1960s and they were found to apply to the study of quasicrystals twenty years later. Shechtman was the first to make such crystals in 1984. Since then hundreds of quasicrystals have been reported and confirmed. The discovery of these aperiodic forms in nature has produced a paradigm shift in the fields of crystallography. Since the discovery, quasicrystals of many metallic alloys have been reported.

**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 11, Number 4**  
**October 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.

<b>Reddy Benjaram Mahipal</b>	(i) Elected as Fellow of the Indian National Academy of Engineering (ii) Elected as the Fellow of the Andhra Pradesh Academy of Sciences
<b>Ramamurthy U</b>	Shanti Swarup Bhatnagar Award - 2011

*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 FOR 2012

The MRSI Awards and Prizes for the year 2012 have been announced. The awardees will deliver lectures at the 23<sup>rd</sup> AGM of MRSI to be held Thapar University, Patiala during February 13-15, 2012

<b>Distinguished Materials Scientist of the year award</b>	Prof. Vikram Kumar, IIT, Delhi
<b>CNR Rao Prize Lecture in Advanced Materials</b>	Prof. A K Sood, IISc, Bangalore
<b>MRSI-ICSC Superconductivity &amp; Materials Science Annual Prizes</b>	Prof. S M Shivaprasad, JNCASR, Bangalore Prof. Amlan J Pal, IACS, Kolkata Prof. R P Tandon, Delhi University, New Delhi

### **MRSI Medal Awardees**

Dr. B L V Prasad, NCL, Pune	Dr. Tarun K Mandal, IACS, Kolkata
Prof. R Vijayaraghavan, VIT University, Vellore	Dr. Parthasarathi Barat, Variable Energy Cyclotron Centre, Kolkata
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Prof. T K Nath, IIT, Kharagpur	Prof. Arindam Ghosh, IISc, Bangalore
Dr. S A R Hashmi, AMPRI, Bhopal	Prof. Ratnamala Chatterji, IIT, New Delhi
Prof. K K Raina, Thapar University, Patiala	Prof. Bikramjit Basu, IISc, Bangalore
Prof. (Mrs) S Manocha, SP University, Vallabh Vidyanagar	Dr. Roy Johnson, ARC-I, Hyderabad
Dr. Ramaprasad Mukhopadhyay, Homi Bhabha Institute, Mumbai	Dr. Chandra Prakash, DRDO, New Delhi

## MRSI AGM 2012

The 23<sup>rd</sup> AGM of MRSI is being held at Thapar University, Patiala during February 13-15, 2012. 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 '**Functional Materials for sustainable Energy and Advanced Technologies**'. 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 23<sup>rd</sup> AGM has been released. Members of MRSI and other scientists/technologists/ students are encouraged to send abstracts of contributed papers to: Professor. K K Raina, School of Physics and Materials Science, Thapar University, Patiala 147 004, Tel (Off): 0175-2393037/2393010, Fax No. 0175-2364498/2393005, Email: oppandey@thapar.edu,hspms@thapar.edu

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## **CALENDAR OF EVENTS** **(NOV 2011-FEB 2012)**

**December 8-10, 2011, 2<sup>nd</sup>** International Conference on advanced Nanomaterials and Nanotechnology (ICANN-2011), IIT, Guwahati. For more details refer to the Website: <http://www.iitg.ernet.in/icann2011/>

**February 13-15, 2012, 23<sup>rd</sup>** Annual General Meeting of MRSI, Prof. K.K. Raina, Deputy Director, School Of Physics & Materials Science, Thapar University, Patiala – 147004, Tel No. 0175-2393037, 2393010, Fax No. 91-175-2364498, 2393005, E-mail :kkraina@thapar.edu kkraina@gmail.com OR Dr. O.P. Pandey, Head, School of Physics & Materials Science, Thapar University, Patiala – 147004, Tel No. 0175-2393116, Fax No. 91-175-2364498, 2393005, E-mail : oppandey@thapar.edu, website: [www.thapar.edu/mrsi/agm2012](http://www.thapar.edu/mrsi/agm2012)

**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
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*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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