



# MRSI Newsletter

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

**Volume B 14 Number 4**

**October 2014**

## From the Editors' Desk

The 2014 Nobel Prize for Physics has been awarded to Isamu Akasaki, Hiroshi Amano and Shuji Nakamura, the inventors of the blue light-emitting diodes (LEDs), which is the key to modern energy-efficient lighting. Though red and green LEDs have been made in the 1950s and 60s, blue LEDs were needed to revolutionize lighting technology. With the advent of blue LEDs, we now have more long-lasting and more efficient alternatives to older light sources. A modern white LED lightbulb converts more than 50 percent of the electricity into light while incandescent bulbs utilize 4 percent of the electricity. Furthermore, LEDs can last up to 100,000 h, compared to 10,000 h for fluorescent lights and 1,000 h for incandescent bulbs. The invention really "initiated a fundamental transformation of lighting technology". MRSI congratulates the laureates for the achievement and being conferred the prize.

MRSI also congratulates the MRSI award winners for 2015.

**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 14, Number 4 October 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**

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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 Vaitheeshwaran**                      Chancellors Award, University of Hyderabad (2014)

*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 2015**

**University of Rajasthan, Jaipur  
February 9-11, 2015**

**Theme Symposium:  
Materials for Inclusive Development**

The 26<sup>th</sup> AGM of the MRSI will be held at the University of Rajasthan, Jaipur during February 9-11, 2015, being organized by Materials Research Society of India, Rajasthan Chapter.

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-2015 would also include a theme symposium on *Materials for Inclusive Development*. 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 send abstracts by email to [mrsi26agm.jai@gmail.com](mailto:mrsi26agm.jai@gmail.com).

**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 **December 15, 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 2015**

The MRSI Awards and Prizes for the year 2015 have been announced. The awardees will deliver lectures at the 26<sup>th</sup> AGM of MRSI to be held at University of Rajasthan, Jaipur during February 9-11, 2015.

### **International Medal for Materials Science and Technology**

Prof. Peter G Bruce, Oxford University, UK

### **MRSI Silver Jubilee International Medal**

Prof. A Suzuki, Yokohama National University, Japan

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

Prof. A K Raychaudhuri, S N Bose Centre, Kolkata

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

Prof. D D Sarma, IISc, Bangalore

### **MRSI-ICSC Distinguished Lecturership Award**

Prof. Dhananjai Pandey, BHU, Varanasi  
Prof. B N Dev, IACS, Kolkata  
Prof. G K Ananthasuresh, IISc, Bangalore

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

Prof. Samit K Ray, IIT, Kharagpur  
Prof. George Thomas, IISER, Trivandrum

### **MRSI Medal Lectures**

Dr. Nikhil R Jana, IACS, Kolkata

Prof. S Gopukumar, CERI, Karaikudi

Prof. Partha Protim Chattopadhyay, Indian Institute of Engineering Science and Technology, Kolkata

Dr. Beena Rai, Tata Research Development & Design Centre, Pune

Dr. V Kumar, C-MET, Trissur

Prof. Kaustubh R S Pirolkar, Goa University, Goa

Dr. Chandana Rath, BHU, Varanasi

Dr. N V Chandra Shekar, IGCAR, Kalpakkam

Prof. K K Bamzai, University of Jammu, Jammu

Prof. Priya Mahadevan, S N Bose Centre, Kolkata

Dr. V M Jali, Gulbarga University, Gulbarga

Dr. G T Chandrappa, Central College, Bangalore

Dr. R Subasri, ARCI, Hyderabad

Dr. Ajay Dhar, NPL, New Delhi

## 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 (2013,2014) 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>December 15, 2014.</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><br/>Office<br/>Residence<br/>Telephone<br/>Fax<br/>Email</p> <p><b>3. Academic Record</b><br/>(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><br/>(from the thesis supervisor and 2 other experts)<br/>(to be enclosed) <span style="float: right;">enclosed/not enclosed</span></p> <p><b>6. List of Publications based on the thesis work</b><br/>in Journals, Reports, Conferences, Patents (to be enclosed)<br/>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> |

# New Members

## Enrolled between July 1 and September 30, 2014

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## CALENDAR OF EVENTS

**December 4-6, 2014**, International Exhibition and conference on Materials Engineering, Technology and Heat Treat Show, (MET'14), Tel: 022-2837 8309, Email ID: [asmi@vsnl.com](mailto:asmi@vsnl.com), Website: [asmindiachapter.org](http://asmindiachapter.org)

**December 15-17, 2014**, international conference on Translational Nanomedicine (T-NANO 2014), Ahmedabad University, University Road, Navrangpura, Ahmedabad 380009, Email: [transnanomed@ils.ahduni.edu.in](mailto:transnanomed@ils.ahduni.edu.in)

**December 22-24, 2014** National Conference on Materials and their Energy Applications (NCME-2014), S S Jain Subodh PG (Autonomous) College, Rambagh Circle, Jaipur-04, Website: [www.subodhpgcollege.com/ncme14](http://www.subodhpgcollege.com/ncme14), Mobile: 9460067015

**February 9-11, 2015**, 26<sup>th</sup> AGM of MRSI, University of Rajasthan, Jaipur, Email: [mrsi26agm.jai@gmail.com](mailto:mrsi26agm.jai@gmail.com).

**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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**Book Post / Newsletter**

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