



MRSI Newsletter

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for circulation amongst its members*

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From the Editors' Desk

Due to exuberant increase in indium tin oxide (ITO) price, efforts are being made to develop alternative transparent conducting materials. Aluminum zinc oxide, carbon nanotubes, graphene, graphene oxide, metal thin films and conductive polymer are projected to be a viable replacement for ITO. However, these materials so far are not able to match the performance of ITO. An alternative solution to meet the increasing demand of ITO is to reuse the ITO, which has not been envisioned yet. Recently, it has been demonstrated that nanostructured materials deposited on ITO, can be peeled off by an organic polymer and the substrates can be recovered for other usage [Applied Physics Letters 100, 242108 (2012) & RSC Advances (in press)]. Free-standing inorganic-organic hybrid structures are obtained from which it is possible to recover the inorganic materials.

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

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MRSI NEWSLETTER

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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.

R P Singh	Fellowship of IUPAC
N V Ravi Kumar	Young Faculty Recognition Award - IIT-Madras (2012)

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 2013 **Kalpakkam, February 11-13, 2013**

Theme Symposium: Advanced Materials for Energy Applications

The 24th AGM of the MRSI (MRSI-AGM 2013) will be held at the Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, during February 11-13, 2013, which is being organized by Materials Research Society of India (MRSI), Board of Research in Nuclear Sciences (BRNS), and IGCAR.

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-2013 would also include a theme symposium on “*Advanced Materials for Energy Applications*”.

Call for Abstracts for Poster Presentations:

Abstracts of contributed papers for the MRSI-AGM 2013 are invited on the theme “*Advanced Materials for Energy Applications*”, and also on various topics under the different subject groups covered by MRSI. Abstract can be submitted to the convener, MRSI-AGM 2013. The last date for the submission of abstracts is Nov. 15, 2012. Details are available at <http://msg.igcar.gov.in/mrsiagm2013/>

For further details:

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<http://www.msg.igcar.gov.in/mrsiagm2013>

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 31st 2012**. 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.

IUMRS-ICA 2013 in Bangalore

The IUMRS-ICA (International Conference in Asia) will be held in Bangalore during December 2013. The brochure of the conference would be brought out in due course.

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> photo
<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 (2011, 2012 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 October 31st, 2012.</p>	<p style="text-align: center;"><u>G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science</u></p> <p>1. Name of the Applicant</p> <p>2. Address Office 7 Residence Telephone Fax Email</p> <p>3. Academic Record (in brief) (Degree/year of passing/University)</p> <p>4. Title of the Ph.D Thesis:</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>5. Recommendation Letters (from the thesis supervisor and 2 other experts) enclosed/not enclosed (to be enclosed)</p> <p>6. List of Publications based on the thesis work 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>Any additional information</p> <p style="text-align: center;">Date : Signature</p>

New Members

Enrolled between July 1 and September 30, 2012

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CALENDAR OF EVENTS (NOV 2012-FEB 2013)

14-16 November, 2012, VIII National Conference of Physics Academy of the North East (**PANE**) Prof. R.C.Tiwari and Dr. Zaithanzauva Pachuau, Conveners, Department of Physics, Mizoram University (A Central University), Tanhril, Aizawl-796004, Mizoram, India Ph. 0389-2330435, 2330522 (O) Mob.: 09862300514/09862770341, E-mail: pane2012mzu@gmail.com,

21-23 November, 2012, 19th National Conference on Liquid Crystals, Prof. K K Raina, Convener NCLC-19, School of Physics and Materials Science, Thapar University, Patiala 147 004, Email: nclc@thapar.edu, kkraina@gmail.com, website: <http://www.thapar.edu/nclc>

7-9 December, 2012, Young Scientists training workshop on Fundamentals and Advances in Biomaterials Science, (*Exclusively for PhD students and young researchers of 35 years of age or below*), Dr. Bikramjit Basu, Workshop Convener, BIOMAT 12, Materials Research Center, Indian Institute of Science, Bangalore-560012, Tel: +91-80-2293 3256, E-mail: biomat12.iisc@gmail.com

8-10 January 2013, National Conference on luminescence and its applications (NCLA 2013), Dr. K.R.Nagabhushana, Convener, NCLA 2013, Department of Science and Humanities, P.E.S. Institute of Technology, an Autonomous Institute under VTU, Belgaum & UGC, New Delhi), 100 ft Ring Road, B.S.K. III stage, Bangalore-560 085, Phone (off): +91-80-26722108, 26721983, 26724781, +91-80- 26724782 Extn. 240, Cell: +91 9481037231, Email: ncla2013@gmail.com, bhushankr@gmail.com, Web: www.ncla2013.pes.edu

01-02 February, 2013, International Conference in Recent Trends in Applied Physics and Material Science, RAM 2013, Dr. Sudhir Bhardwaj, Convener, Govt. College of Engineering and Technology, Karni Industrial Area, Pugal Road, Bikaner 334 004, Mobile : 91-9351672524, +91-9414486278, Email: ram2013india@gmail.com, Website: www.ram2013.com

11-13, February 2013, 24th Annual General Meeting of MRSI, IGCAR, Kalpakkam. 24th AGM Secretariat, IGCAR, Kalpakkam 603 102, Tel No. 044-2740500-Ext. 2442, Fax No. 044-27480081, Email: mrsiagm2013@igcar.gov.in, website: <http://www.igcar.gov.in/mrsi/agm2013>

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:

Prof. S B Krupanidhi
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