



MRSI Newsletter

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for circulation amongst its members*

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From the Editors' Desk



The Nobel Prize in physics for 2010 was awarded jointly to Andre Geim and Konstantin Novoselov for groundbreaking experiments regarding the two-dimensional material graphene. Graphene is a one-atom-thick planar sheet of sp^2 -bonded carbon atoms that are densely packed in a honeycomb crystal lattice. It makes an excellent sensor due to its two-dimensional structure. Its entire volume is exposed to its surrounding makes it very efficient to detect adsorbed molecules. Graphene has a high carrier mobility, as well as low noise, allowing it to be used as the semiconducting channel in field effect transistors. Its high electrical conductivity and high optical transparency make it a candidate for transparent conducting electrodes, required for such applications as touchscreens, liquid crystal displays, organic photovoltaic cells, and organic light-emitting diodes. In particular, graphene's mechanical strength and flexibility are advantageous compared to indium tin oxide. Due to its unique properties, graphene can be used in the conductive plate of ultracapacitors, biodevices and packaging foods because of its antibacterial nature.



**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

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MRSI NEWSLETTER

Volume B 10, Number 4

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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:

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MRSI AWARDS FOR 2011

The MRSI Awards and Prizes for the year 2011 have been announced. The awardees will deliver lectures at the 22nd AGM of MRSI to be held AMPRI, Bhopal during February 14-16, 2011.

Distinguished Materials Scientist of the year award	Dr. S Sivaram, NCL, Pune
MRSI-ICSC Superconductivity & Materials Science Senior Award	Dr. P R Vasudeva Rao, IGCAR, Kalpakkam
MRSI Distinguished Lecturership Award	Prof. Ashutosh Sharma, IIT, Kanpur
MRSI-ICSC Superconductivity & Materials Science Annual Prizes	Prof. D Bahadur, IIT, Mumbai Prof. L M Manocha, SP University
MRSI Medal Awardees	
Dr. Amitava Mitra, NML, Jamshedpur	Prof. M Eswaramoorthy, JNCASR, Bangalore
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Prof. Asim Bhaumik, IACS, Kolkata	Dr. N Ravishankar, IISc, Bangalore
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Dr. John Philip, IGCAR, Kalpakkam	Prof. Rajiv Prakash, BHU, Varanasi
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Dr. Ram Gopal, Allahabad University, Allahabad	Dr. P S Anil Kumar, IISc, Bangalore

MRSI AGM 2011

The 22nd AGM of MRSI is being held at AMPRI, Bhopal during February 14-16, 2011. 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 'Light Weight Materials-Monolithic 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 22nd AGM has been released. Members of MRSI and other scientists/technologists/ students are encouraged to send abstracts of contributed papers to: **Dr. Anil K Gupta, Chairman, 22nd AGM Secretariat, Director, CSIR-AMPRI, Bhopal & Advanced Materials and Processes Research Institute (AMPRI) Hoshangabad Road, Near Habibganj Naka, Bhopal - 462 064 (M.P.), India, Tel. No.: 0755-2457105, Fax No. : 0755-2457042, E-mail : mrsi-2011 @ ampri.res.in OR 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**

Obituary

Rustum Roy, 86, of State College, died Thursday, August 26, 2010 at Foxdale Village. Born on July 3, 1924, in Ranchi, India, he was the seventh child of the late Narendra Kumar and Rajkumari Roy. On June 8, 1948, he married Della Martin, who survives. Also surviving are three children, Neill R. Roy and his wife, Evelina Francis, of State College, Jeremy R. Roy and his wife, Lydia, of Arlington, Tex., and Ronnen A. Roy and his wife, Sinaly, of Bethesda, Md.; two grandchildren, Simone and Naren; a brother, Prodipto Roy of India, and a sister Ioni Dipti Sisodia of Georgia; and by numerous nieces and nephews.

He received B.Sc. and M.Sc. degrees from Patna University and received his Ph.D. from The Pennsylvania State University. He was associated with Penn State for sixty-five years as a graduate student and faculty member. At Penn State he held positions as Evan Pugh Professor of the Solid State, as Professor of S.T.S., and as Professor of Geochemistry. He also was a Distinguished Professor of Materials at Arizona State University, and a Visiting Professor of Medicine at the University of Arizona. He was appointed and served for 23 years as the first director of an independent interdisciplinary Materials Research Laboratory in the U.S. He was elected to numerous national and international scientific academies including the U.S. National Academy of Engineering. He co-founded the pioneering interdisciplinary scientific society - the Materials Research Society- and continued to advance the boundaries of science and technology up to the present, including seminal research in the emerging field of water science, as well as resonance effects in condensed matter.

An outstanding aspect of his life was his capacity and dedication to breaking artificial boundaries in order to integrate science, religion, education, health, art and social action for human benefit. As an eight year old, in his parent's house he met Gandhi, who discussed with his father how personal change was more effective for human advancement than technological change. Professor Roy's solution in life was to pursue both. He was very active in ecumenical religious life for over 60 years and co-founded the interdenominational Sycamore Community. His insight into the world's main religions led him to work to break down the boundaries between Christianity, Hinduism, Islam, Buddhism and other religions. He served on the Executive Committee of the National Council of Churches, was a leader in the Kirkridge retreat center, and was the friend and colleague of many religious leaders including Bishop John Robinson, John Shelby Spong, Prof. Harvey Cox, Sister Joan Chittister and Reverend Gordon Cosby. He was also invited by the Pope to the Vatican committee regarding the rehabilitation of Galileo.

He was a champion of interdisciplinary K-12 schooling and was the driving force behind creation of the interdisciplinary field of Science, Technology and Society. He served as Science Advisor to a number of successive Pennsylvania Governors and chaired for many years the Science and Society Sector of President Mikhail Gorbachev's State of the World forum. Professor Roy became a champion of integrative medicine, resulting in alliances with pioneering figures including Andrew Weil, Deepak Chopra, Larry Dossey, B.M. Hegde, Marc Newkirk, Patrick Flanagan, Hans Peter Duerr, Vladimir Voeikov, and Yan Xin, with the purpose of bringing advances in the art and science of whole person healing to the wider public. He was founder and sponsor of Friends of Health, served as co-chair of the Chopra Foundation, and hosted a live Internet talk radio show on VoiceAmerica.com.

He was also a long time promoter of art and the field of art and science, and was responsible for bringing the works of artists, such as Barbara Hepworth, Max Bill, and Fredrick Franck, to the University. Funeral services will be at 1:30 p.m. on Sunday, August 29, at the University Baptist and Brethren Church, 411 S. Burrowes Street, State College. Burial will follow in Graysville Cemetery. Memorial contributions may be made to Friends of Health, 528 S. Pugh Street, State College, PA 16801.

Arrangements are under the care of Koch Funeral Home, State College.

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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 (2009, 2010 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, 2010.</p>	<p style="text-align: center;">G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science</p> <p>1. Name of the Applicant :</p> <p>2. Address</p> <p>Office : 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 : b) Name of the University/Laboratory/Institute : where the Ph.D work was carried out c) Name of the Research Supervisor : d) Date of submission of the thesis : e) Date of Award of Ph.D : 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) (to be enclosed) enclosed/not 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>7. Any additional information</p> <p>Date : Signature</p>

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CALENDAR OF EVENTS (NOV 2010-FEB 2011)

November 11-13, 2010, 15th International Metallurgy & Materials Congress (IMMC15), for more details refer website: <http://www.metalurji.org.tr/congress>

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>

December 21-23, 2010, 3rd National Conference on Nanomaterials and Nanotechnology, Dr. Dharmendra Mishra, Convener, Amity School of Engineering and Technology, Amity University Uttar Pradesh, Lucknow Campus, Lucknow, Mobile : 09839773193, Tel: 0522-2720972-74, Fax: 0522-2721934, Email: natcon.namtech.2010@gmail.com,

February 14-16, 2011, 22nd 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

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
General Secretary, MRSI
Materials Research Centre
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