



MRSI Newsletter

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

Volume B 04, Number 3

July 2004

From the Editors' Desk

Our country has witnessed several technological achievements over the last decade. This has been possible through harnessing the available expertise and infrastructure in the country. This has also led to the nurturing of the required specialized facilities. However, for us to progress, we need to constantly improvise and innovate. This will be possible only if we have a very strong R & D base.

The new Indian budget makes an innovative proposal for raising finances for funding primary education and other related programmes in the country. While this is welcome, simultaneously there is a need to pay attention to the science and technical education such that a stream of bright young researchers are available to take up the challenges of the future.

As already mentioned, it is planned to bring out an updated members directory. Notification to this effect was inserted in the previous issue of the Newsletter. We would request our members to communicate the relevant information so that this update will become an important source book.



H L Bhat
R V Krishnan
Editors

*For more details about the activities of
MRSI, members are advised to visit the
society's website at*

www.igcar.ernet.in/mrsi

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MRSI NEWSLETTER

Volume B 04, Number 3

July 2004

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 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.

S Sivaram (i) Vice President-INSA
(ii) Vishwakarma Medal- 2003 by INSA

Baldev Raj International Committee on Nondestructive Testing Research Award for the Years 2000-2004

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

APPOINTMENTS

Dr. S Banerjee, Chairman, Mumbai Chapter of MRSI has taken over as the Director, Bhabha Atomic Research Centre, (BARC), Trombay, Mumbai 400 085.

Dr. Baldev Raj, Chairman Kalpakkam Chapter and Materials Characterization Subject Group of MRSI has been appointed as Director, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam 603 102.

Dr. A M Sriramamurthy has taken over as the Director, Defence Metallurgical Research Laboratory, Hyderabad.

Dr. D Banerjee, Treasurer, MRSI has been appointed Chief Controller (AMS), Research & Development, Defence Research Development Organization, New Delhi.

Students' Projects

MRSI will partially support upto 10 projects of students (B.Tech, M.Sc, M.Tech, ME, Ph.D) in the area of Materials Science & Technology under the supervision of a MRSI member. Proposals are invited before **September 30th 2004**.

International Travel Fund

MRSI has set up a '**Travel Fund**' for the participation of MRSI members in international conferences such as IUMRS, MRS, APAM, ACCMS. Further details will follow.

Special Announcement

MRSI has made a proposal to IUMRS to host the International Conference on Advanced Materials (IUMRS-ICAM) in India during 2007. We hope our proposal will be considered favourably by IUMRS.

NOTIFICATION

Nominations for the MRSI Awards/Prizes and Medals for the year 2005

Nominations are invited from the **Members of the Council of MRSI** for the following:

- i. Distinguished Materials Scientist of the year award (1)
- ii. MRSI-ICSC Superconductivity & Materials Science Senior Award (1)
- iii. Distinguished Lecturership Award (1)
- iv. MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- v. MRSI Medal Lecture Awards
- vi. Election of Distinguished scientists from abroad for Honorary Membership of MRSI

The last date for the receipt of nominations at Bangalore office of MRSI is **15th August 2004** (kindly note the extended date).

SOMIYA AWARD



The Somiya Award of IUMRS for the year 2004 was presented to **Prof. CNR Rao**, FRS, Linus Pauling Professor and Honorary President, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India and **Prof. A K Cheetham**, FRS, Director of the Materials Research Laboratory, University of California, Santa Barbara, USA, on April 14, 2004 during the plenary of MRS meeting, for their outstanding work and collaboration on the synthesis and characterization of novel materials.

The Somiya Award (named in honour of Dr. Shigeyuki Somiya, Emeritus Professor of the Tokyo Institute of Technology) is the highest award of the MRS which recognizes distinguished research on real materials conducted by a team whose members are drawn from at least two continents. CNR Rao and A K Cheetham have collaborated and done pioneering research for over three decades, in emerging areas of materials chemistry, including magnetic, nano and open-framework materials.

Prof. Rao and Prof. Cheetham jointly delivered a talk during the awards ceremony in which they covered some of the most recent work carried out by them.

MEMBERSHIP DIRECTORY



All the members of MRSI who have not sent their updated information required for the membership directory may do so without fail before **August 31, 2004**. We also would like you to indicate your fields of interest in the directory based on the following subject groups of MRSI. Kindly let us know the same at the earliest.

- | | |
|---|---|
| 1. Building Materials | 2. Biomaterials |
| 3. Ceramics and Glasses | 4. Composites |
| 5. Computational Materials Science | 6. Electronic Materials |
| 7. Fracture | 8. Magnetic Materials |
| 9. Materials Characterization | 10. Metals |
| 11. Polymers | 12. Processing Technologies |
| 13. Surfaces & Interfaces | 14. Thin Films |
| 15. Materials under High Pressure | 16. Materials for Rural Technology |
| 17. Others, (please specify) | |

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:

Guidelines

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.
2. Criteria for Selection:
 - Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2003, 2004 for the current prize)
 - 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.
 - Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.
 - 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.
- 3) The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.
- 4) Application in the prescribed format reproduced alongside should be sent to the Secretary, MRSI so as to reach him on or before **October 30th, 2004**.

APPLICATION FORM

Photo

G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science

1. **Name of the Applicant** :
2. **Address** :
 - Office :
 - Residence :
 - Telephone :
 - Fax :
 - Email :
3. **Academic Record**
(in brief) (Degree/year of passing/University) :
4. **Title of the Ph.D Thesis:**
 - 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
5. **Recommendation Letters**
(from the thesis supervisor and 2 other experts) (to be enclosed) enclosed/not enclosed
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
7. **Any additional information**

Date : Signature

New Members

Enrolled between April 1 and June 30, 2004

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CALENDAR OF EVENTS, 2004 - 2005

July 19-30, 2004, Electronic Structure Methods & Their Applications, for details visit website <http://agenda.ictp.trieste.it/agenda/current/fullAgenda.php?email=0&ida=a0374>

August 24-27, 2004, Sixth International Conference on Solvothermal Reactions, Prof. Dr. K Byrappa, Chairman, ICSTR-6, University of Mysore, Department of Geology, P B No. 21, Manasagangotri, Mysore- 570 006. Tel: 0821-2515185, Telefax: 0821-2515185, Email: kbyrappa@rediffmail.com, byrappak@yahoo.com
or Prof. Dr. Masahiro Yoshimura, Co-Chairman, ICSTR-6, Centre for Materials Design, Materials and Structures Laboratory, Tokyo Institute of Technology, # 4259, Nagatsuta, Midori, Yokohama 226-8503, Japan, Tel: +81-(0) 45-924-5323, Fax: +81-(0) 45-924-5358, Email: yoshimura@msl.titech.ac.jp, cosmos@msl.titech.ac.jp

September 6-10, 2004, E-MRS Fall Meeting, Prof. Andrzej Mycielski, Institute of Physics, Polish Academy of Sciences, Al. Lotnikow 32/46, 02-668 Warsaw, Poland, Tel: +48228435626, Fax: +48228430926, Email: mycie@ifpan.edu.pl, Website: www.emrs.org/meetings/fall2004

<p>September 13-17, 2004, The 2nd Biennial Symposium and Summer School on Nano and Giga Challenges in Microelectronics Research and Opportunities in Russia (NGCM2004), St. Petersburg, Russia Email: organizers@asdn.net</p>
<p>October 11-15, 2004, National Workshop on Advanced Methods for Materials Characterization (NWMC), Dr S K Kulshreshtha, Convenor, NWMC, head, NMSCD, Bhabha Atomic Research Centre, Mumbai 400 085, Tel: 022-25505148/25593829, Fax: 022-25505151, Email: kulshres@magnum.barc.ernet.in, or Dr. A K Tyagi, Secretary, NWMC, Head, Solid State Chemistry Section, Applied Chemistry Division, Bhabha Atomic Research Centre, Mumbai 400 085, Tel: 022-25595330, Fax: 022-25505151, Email: mrsi04@apsara.brc.ernet.in</p>
<p>October 18-23, 2004, Eleventh APAM Topical Seminar on The Processes in Functional Materials, Prof. G T Fei, Institute of Solid State Physics, Chinese Academy of Sciences, 230031 Hefei, China, email: gtfei@issp.ac.cn or Dr. Marina Kosinova, Institute of Inorganic Chemistry SB RAS, 3, Acad, Lavrentjev Pr. Novosibirsk 630090, Russia, Email: marina@che.nsk.su</p>
<p>November 16-18, 2004, IUMRS-ICA 2004, Mr. Jong-Pyng Chen and Ms. Grace Lee, Secretaries, Materials Research Laboratories, ITRI, Email: ica2004@itri.org.tw</p>
<p>November 22-23, 2004, International Symposium on Ultrapure Materials:Processing, Characterization and Applications (ISUPM), The Convenor, International Symposium on Ultrapure Materials:Processing, Characterization and Applications, C-MET, IDA Phase-II, Cherlapally, HCL (PO), Hyderabad 500 051</p>
<p>November 22-25, 2004, Asia Pacific EPR/ESR Symposium, Prof. S V Bhat, Department of Physics, Indian Institute of Science, Bangalore 560 012, India, Tel: 080-22932727 / 23600880, Fax: 080-23602602, Email: apes04@physics.iisc.ernet.in, svbhat@physics.iisc.ernet.in, Website: www.physics.iisc.ernet.in/~apes04</p>
<p>November 25-26, 2004, Workshop on Carbon Materials for Energy Applications, Dr. O P Bahl, Emeritus Scientist, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi 110 012, Tel: 9811251200, Email: opbahl@mail.nplindia.ernet.in</p>
<p>December 17-19, 2004, International Conference on Recent Advances in Composite Materials, Dr. V K Srivastava, Convenor, ICRACM 2004, Department of Mechanical Engineering, Institute of Technology, Banaras Hindu University, Varanasi 221 005, Tel: 0542-2368157, Fax: 0542-2368174, Email: vijayks@banaras.ernet.in, vijayks@bhu.ac.in, Website: www.bhu.ac.in/notification/icracm1.htm</p>
<p>December 20-21, 2004, International Conference on Electrochemical Power Systems, ICEPS-2, M Jayachandran, Secretary, Society for Advancement of Electrochemical Science and Technology (SAEST), CECRI Campus, Karaikudi 630 006, Tel: 04565-224198/227550-559, Fax: 04565-227713/227779, Email: saestkkd@yahoo.com/saest_india@rediffmail.com, Website: http://saest_ind.tripod.com</p>
<p>February 23-25, 2005, 5th International conference on Advances in Metrology, Dr. Ashok Kumar, Head, Ultrasonics Standard & Convenor, AdMet 2005, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi 110 012, Tel: 011-30950398, 25863139, Fax: 011-25732965, 25726938, Email: admet@nplindia.ernet.in</p>
<p>July 3-8, 2005, IUMRS-ICMAT 2005 and IUMRS-ICAM 2005, ICMAT Secretariat, Materials Research Society of Singapore, c/o Institute of Materials Research and Engineering, 3 Research Link, Singapore 117 602, Tel: (65) 6874 1975, Fax: (65) 6777 2393, Email: icmat@mrs.org.sg</p>
<p>July 18-22, 2005, Powders & Grains 2005, for details visit website http://www.ical.uni-stuttgart.de/~pg2005</p>
<p>August 23-31, 2005, XX International Union of Crystallography, Scientific Secretariat-Andrea Lenco & Patrizia Rossi, Email: iucr@iucr2005.it</p>

Members are requested to give information about the Conference / 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. 25,000/- are enrolled as Patron members by the Council of the MRSI.

Privileges of Patron Members

- Publication of their names in MRSI Newsletter
- Free supply of all periodicals published by MRSI such as:
 - Bulletin of Materials Science
 - MRSI Newsletter / MRSI Update
- 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 V Subramanyam
Vice President - General Secretary
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Printed at **Navbharath Enterprises**, Seshadripuram, Bangalore - 560 020, India. Ph : 2336 4142 / 2336 4682

Book Post / Newsletter

From:

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MRSI Newsletter
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