



MRSI Newsletter

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

Volume B 05, Number 2

April 2005

From the Editors' Desk



The Sixteenth Annual General Meeting of MRSI, the first to be held under the presidentship of Dr. R A Mashelkar was a great success judging by the lectures delivered, posters displayed and the delegates participation. The event brought greater interaction between industrialists and academia which augers well for the society.

During the council and General Body Meetings, it was indicated that while the Newsletter at present serves as a useful source of information, it should widen its scope to act as an interactive platform. We solicit views of our members in this regard.



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 05, Number 2

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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 COUNCIL (2005-2007)

Founder President	C N R Rao
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Vice Presidents	P Ramachandra Rao C Ganguly S Sivaram K T Jacob A K Barua S V Subramanyam
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Joint Secretaries	H L Bhat, H S Maiti, S V Bhat
Treasurer	V Chandrasekaran
Joint Treasurer	M K Surappa
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Ashutosh Sharma	Lele S
Bahadur D	Raja Gopal E S
Banerjee D	Raychaudhuri A K
Banerjee S	Sundararajan G
Krishnan R V	
Ex-Officio Members	
Chairmen of Chapters	Chairmen of Subject Groups

Chapters

Bangalore	Bhopal	Chennai	Gujarat	Hyderabad
Jamshedpur	Kalpakkam	Kharagpur	Kolkata	Mumbai
New Delhi	Roorkee	Thiruvananthapuram	Varanasi/Kanpur	Pune

Subject Groups

Building Materials	Biomaterials	Ceramics & Glasses	Composites	Computational Materials Science
Electronic Materials	Fracture	Magnetic Materials	Materials Characterization	Metals
Polymers	Processing Technologies	Surfaces & Interfaces	Thin Films	Materials under High Pressure
Materials for Rural Technology				

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 A Mashelkar	President, Indian National Science Academy
M S Valiathan	'Padma Vibhushan', Govt. of India'
B Dattaguru	Padma Shri', Govt. of India'
D Banerjee	Padma Shri', Govt. of India
S Banerjee	Padma Shri', Govt. of India
A K Tyagi	Gold Medal of Indian Nuclear Society

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

Prof. CNR Rao awarded the Dan David Prize of Israel and the India Science Award of the Government of India

Prof. CNR. Rao, Linus Pauling Research Professor at the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore has been awarded the **Dan David Science Prize** of Israel in Materials Science for 2005 and **India Science Award**. The Dan David Prize is a joint international enterprise endowed by the Dan David Foundation, headquartered at Tel Aviv University. The Dan David Prize is awarded to individuals and institutions with proven, exceptional excellence and contributions to humanity in the sciences, arts, humanities, public service and business, without discrimination of any kind. Prof. Rao shares the Dan David Prize with George Whitesides of Harvard University and Robert Langer of Massachusetts Institute of Technology. The citation states that '*Rao is the world's foremost solid state and materials chemist*'.

The **India Science Award** given by the Government of India which carries an amount of Rs 25 lakhs, is the highest and most prestigious national recognition for outstanding contribution to science. Prof. Rao is the first recipient of this award.

IUMRS-ICAM 2007

"International Conference on Advanced Materials" will be held in Bangalore, India during October 8-13, 2007

The International Union of Materials Research Societies (IUMRS) was established in 1991 as an international association of technical groups or societies, which have an interest in promoting interdisciplinary materials research. The IUMRS has adhering Bodies and Institutional Affiliates around the world. MRSI is a founding Adhering Body of (IUMRS) and participates in all its activities.

The IUMRS-ICAM is the most prestigious of all the conferences under the banner of IUMRS. It is held once in two years. E-MRS organized the IUMRS-ICAM during 1997 in Strasbourg, France. Later it was organized by MRS-China in 1999 (Beijing), MRS-Mexico in 2001 (Cancun), MRS-Japan in 2003 (Yokohama). MRS-Singapore will be organizing the IUMRS-ICAM in the year 2005. **We are extremely pleased to announce that the MRSI will be organizing the IUMRS-ICAM 2007 in Bangalore, India during October 8-13, 2007. The venue would be Indian Institute of Science. The following symposia and forums are tentatively proposed.**

Symposia(Partial & Tentative):

- | | | |
|--|---------------------------------------|-----------------------------------|
| ▪ Intelligent Materials | ▪ MEMS | ▪ Functional Materials |
| ▪ Self Assembly & Nanomaterials | ▪ Magnetic & Spintronics Materials | ▪ Hybrid Materials |
| ▪ Biomaterials including Materials for Biomedical Applications | ▪ Soft Materials | ▪ High Strength Materials |
| ▪ Polymer Materials | ▪ Energy Materials | ▪ Computational Materials Science |
| ▪ Characterization of Materials | ▪ Catalysis | ▪ Sensor Materials |
| ▪ Composite Materials | ▪ Photonic Materials/Active Materials | |

Forums (Tentative):

- | | |
|------------------------------------|-------------------|
| ▪ Materials Education ³ | ▪ Green Materials |
|------------------------------------|-------------------|

The programme will consist of (i) Plenary Lectures (ii) Invited Lectures (iii) Oral Presentations (iv) Poster Presentations and (v) Public Lectures. It will be a five day conference with more than ten parallel sessions.

February 11, 2005

- 9:00 to 9:30 **ML-III** *Studies on catalytic Organic Transformations with Novel Organic-Inorganic hybrid Materials*, Prof. S.Chandrasekharan, Dept. of Organic Chemistry, IISc, Bangalore
- 9:30 to 10:00 **ML-IV** *Electroactive Polymers as active novel Materials for Sensors and Actuators* Dr. S. Radhakrishnan, NCL, Pune
- 10:00 to 10:30 **ML-V** *Biomimetic Synthesis Of Nanoparticles and Their Self-Assembled 3D-Hybrid Composite Structures For Tissue Engineering* Dr. Arvind Sinha, Materials Science & Technology Division, NML, Jamshedpur
- 10:30 to 11:00 Tea
- 11:00 to 13:00 **Theme Symposium on Automotive Materials**
- 11:00 to 11:30 *Plastics in Automotive Application* Mr. Bhaskar Ghosh, Reliance India Ltd, Mumbai **IL-VII**
- 11:30 to 12:00 *Future Materials Trends – Emphasis on Ceramics for Engine Components*, Mr. B. Bhanot, Director, ARAI **IL-VIII**
- 12:00 to 12:30 *Challenges in Materials Selection, Fabrication and Design in Two-wheeler Segments* N. S. Mohan Ram, Advisor, Advanced Engineering Group, TVS Motor Company Ltd., Hosur, Bangalore **IL-IX**
- 12:30 to 13:00 *A Perspective on GM Materials Research Initiatives* Dr. Suresh Sundarraj, Scientist, India Science Laboratory, General Motors, Bangalore **IL-X**
- 13:00 to 14:00 Lunch
- 14:00 to 15:00 **G C Jain Memorial Prize Lectures**
- 15:00 to 16:30 **Poster Session I** & Tea
- 16:30 to 17:00 **ML-VI** *Spin state Transitions in Fe (II) Complexes: Materials for Molecular Electronics* Dr. S. K. Kulshreshtha, Novel Materials & Structural Chemistry Division, BARC, Mumbai
- 17:00 to 17:30 **ML-VII** *From the Electronic Motion to the Structure and Properties of Materials* Dr. Umesh Waghmare, Theoretical Sciences Unit, JNCASR, Bangalore
- 17:30 to 18:00 **ML-VIII** *Inorganic-organic Hybrid Nanocomposite Coatings on Plastics by sol-gel Processing* Dr. Goutam De, Scientist Sol-Gel Division, CGCRI, Kolkata

18.00 to 18.30

Tea

18:30 to 19:15

MRSI-ICSC Superconductivity & Materials Science Senior Award

(Title awaited)

Prof. P. Ramachandra Rao, Vice-Chancellor, Banaras Hindu University, Varanasi

19:15 to 20:00

Cultural Programme

20.00-

Dinner

February 12, 2005

09:00 to 09:30

ML-IX *Trends in Combustion Synthesis of Nanocrystalline Ceramic Powders*

Dr. A.K. Tyagi,

Applied Chemistry Division, BARC, Mumbai

09:30 to 10:00

ML-X *Superconductivity and Magnetism in Oxide-based Epitaxial Heterostructures*

Prof. R.C. Budhani, Department of Physics, IIT-K, Kanpur

10:00 to 10:30

ML-XI *Dynamics in the solid state*

Prof. S. Balasubramanian, Molecular Modelling Laboratory, Chemistry & Physics of Materials Unit, JNCASR, Bangalore

10:30 to 11:00

Tea

11:00 to 11:40

*Recent Advances in Ferrofluid Science and Technology***MRSI-ICSC Superconductivity & Materials Science Annual Prize Lecture**

Dr. Baldev Raj, Director, IGCAR, Kalpakkam

11:45 to 12:25

*Chaotic and Turbulent States in Plastic Deformation of Solids***MRSI-ICSC Superconductivity & Materials Science Annual Prize Lecture**

Prof. G. Ananthakrishna, Materials Research Centre, IISc, Bangalore

12:30 to 13:00

ML-XII *Recent Progress in the Materials Processing under Hydrothermal Conditions*

Prof. K. Byrappa, Geology Department, Mysore University

13:00 to 14:00

Lunch

14:00 to 15:30

Poster Session II

15:30 to 16:00

Tea

16:00 to 16:40

Distinguished Lectureship Award*Memory Effects In Magnetic Nanoparticles*

Prof. Sushanta Dattagupta, Director, S.N. Bose National Centre for Basic Sciences, Kolkata

16:45 to 17:15

Concluding Session

and the presentation of G. C. Jain Memorial Prize, Best Poster Prizes, Best Paper Prize etc.

For further details, contact Dr. K Vijayamohan, Convenor, 16th AGM-MRSI Secretariat, Physical & Materials Chemistry Division, NCL, Pune, Ph: 020-25893300 Ext. 2002/2276, Fax : 020-25893044, Email : mrsi2005@dalton.ncl.res.in

IUMRS-ICAM 2007

“International Conference on Advanced Materials” will be held in Bangalore, India during October 8-13, 2007

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- Intelligent Materials
- Self Assembly & Nanomaterials
- Biomaterials including Materials for Biomedical Applications
- Polymer Materials
- Characterization of Materials
- Composite Materials
- MEMS
- Magnetic & Spintronics Materials
- Soft Materials
- Energy Materials
- Catalysis
- Photonic Materials/Active Materials
- Functional Materials
- Hybrid Materials
- High Strength Materials
- Computational Materials Science
- Sensor Materials

Forums (Tentative):

- Materials Education
- Green Materials

The programme will consist of (i) Plenary Lectures (ii) Invited Lectures (iii) Oral Presentations (iv) Poster Presentations and (v) Public Lectures. It will be a five day conference with more than ten parallel sessions.

**S V Subramanyam,
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New Members Enrolled between Nov 1 and Dec 31, 2004

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CALENDAR OF EVENTS JAN-AUG 2005

January 21-22, 2005 , XV National Conference on Medical Devices & Biomaterials, Quality Assurance, Ethics and Regulatory Issues, D S Nagesh, Organizing Secretary, XVNCSBAOI, BMT Wing, SCTIMST, Poojapura, Thiruvananthapuram 695 012, Tel: 0471-2340801, Fax: 0471-2341814, Email: dsnagesh@rediffmail.com, nagesh@sctimst.ac.in
February 2-4, 2005 , National Conference on Luminiscence and its Applications, Dr. B N Lakshmi Narsappa, Convenor, NCLA-2005, Department of Physics, Bangalore University, Bangalore 560 056, Tel: 080-23214001 Ext. 332, 9448116281, Fax: 080-23219295, Email: ncla2005bnla@rediffmail.com
February 9, 2005 , APAM India Chapter Meeting, Dr. B K Das, Executive Director, Centre for Materials Electronics Technology (C-MET), Panchawati, Off Pashan Road, Pune 411 008, Tel: 020-25898724, Fax: 020-2589 8085/ 2589 8180, Email: bkdas@cmetindia.org
February 10-12, 2005 16 th AGM of MRSI, The Convener, 16 th AGM of MRSI Secretariat, Physical & Materials Chemistry Section, National Chemical Laboratory, Pune 411 008, Tel: 020-25893300 Ext. 2002/2276, Fax: 020-25893044, Email: mrsi2005@dalton.ncl.res.in
February 23-25, 2005 , 5 th 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
February 24-26, 2005 , Twentieth National Symposium on Cryogenics-2005, Dr. H B Naik, /Dr. K P Desai, Convenor/Joint Convenor, TNSC-2005, Mechanical Engineering Department, S V Institute of Technology, Surat 395 007, Tel: 0261-2223371/72/73/74, Fax: 0261-2228394/2227334, Email: hbnaik@yahoo.com / keyur_desai@yahoo.com
March 14-15, 2005 , National Workshop on Instrumentation and Measurement Techniques (IMTECH-2005), Dr. S Arumugam, Convener, IMTECH-2005, High Pressure Low Temperature Lab, Bharathidasan University, Tiruchirapalli 620 024, Tel: 0431-2407057, Fax: 0431-2407045/2407093, Email: sarumugam1963@yahoo.com
May 31-June 3, 2005 , E-MRS Spring Meeting 2005, Strasbourg, France, Secretariat: European Materials Research Society, BP 20, F-67037 Strasbourg, France, Tel: +33 (0) 3 88 10 65 43, Fax: +33 (0) 3 88 10 63 43, Email: emrs@phase.c-strasbourg.fr, Website: http://www-emrs.c-strasbourg.fr
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
July 18-22, 2005 , Powders & Grains 2005, for details visit website http://www.ical.uni-stuttgart.de/~pg2005
August 23-31, 2005 , XX International Union of Crystallography, Scientific Secretariat-Andrea Lenco & Patrizia Rossi, Email: iucr@iucr2005.it

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
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- 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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