



MRSI Newsletter

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

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January 2006

From the Editors' Desk



A late evening terrorist attack on the 28th of December 2005 in the premises of Indian Institute of Science, Bangalore in which a retired Professor from IIT Delhi got killed and four others injured, has shocked and surprised the whole nation. The event also exposed the vulnerability of various scientific and technological institutes in the country for such terrorist attacks. Obviously, we as the affected party, should be not be cowed down by such a heinous act of violence, but should be all the more vigilant in our working places and help the concerned authorities in preventing its recurrence. We convey our condolences to the bereaved family and sympathy to the family of the injured.

The 17th Annual General Meeting of MRSI is round the corner and will be held at Lucknow during 13 - 15 February 2006. The meeting will be preceded by half-a-day meeting of the APAM India Chapter on the 12th. The detailed programme of the meeting appears in this issue. As you will see, the AGM is packed with scientific deliberations which include 2 public lectures, 2 plenary lectures, 4 invited lectures and 14 theme lectures in addition to the customary award (3) and medal lectures (15) making it the busiest ever AGM of our society. We sincerely hope that there will be a large participation of our members in this meeting and wish the organizers success.

Finally, the editors of the Newsletter wish all the members of MRSI a very happy New Year.



H L Bhat
R V Krishnan
T G Ramesh
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

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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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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.

CNR Rao	Honorary Doctorate, Visveswaraiah Technological University, Belgaum
RA Mashelkar	Star of Asia award of Business week
S Ranganathan	Platinum Medal of the Indian Institute of Metals
RMVGK Rao	Elected Fellow of INAE
Rajiv Dusane	Fellow, Maharashtra Academy of Sciences

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

NOTICE

ANNUAL GENERAL BODY MEETING OF MRSI

The Seventeenth Annual General Body Meeting of MRSI will be held on 13th February 2006 between 18.00-19.00 hrs at World Unity Convention Centre, CMS Kanpur Road, Lucknow.

The Agenda for the Meeting is as follows:

- | | |
|---|--|
| 1. Welcome by the President, MRSI | 3. Presentation of the Annual Report for 2005 |
| 2. Confirmation of the Minutes of the Sixteenth Annual General Meeting and action thereon | 5. MRSI-Publications : Report by the Editor |
| 4. Report on International links of Materials Research Society of India | 7. Presentation of the Statement of Accounts for 2005 |
| 6. Award for the Best Paper published in Bulletin of Materials Science | 9. Venue for the 18 th AGM (2007) & 19 th AGM (2008) |
| 8. Election of Honorary Members | 11. Any other matter |
| 10. Items from the members | |

Kindly communicate the details of the AGBM to all the members of MRSI

IUMRS-ICAM 2007

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

MRSI will be organizing the IUMRS-ICAM 2007 in Bangalore, India during October 8-13, 2007. The following symposia are tentatively proposed.

Symposia (Partial & Tentative):

(A) Intelligent Materials	(B) MEMS	(C) Functional Materials	(D) Self Assembly & Nanomaterials
(E) Magnetic & Spintronics Materials	(F) Semiconductors for Opto-electronics	(G) Biomaterials including Materials for Biomedical Applications	(H) Soft Matter
(I) Polymer Materials	(J) Sensor Materials	(K) Photonic Materials / Active Materials/ Electronic Packaging	(L) Multilayered Materials
(M) Hybrid Materials	(N) Energy Materials	(O) Composite Materials	(P) High Strength Materials
(Q) High Performance Structural Materials	(R) Computational Materials Science	(S) Materials for Catalysis	(T) Characterization of Materials
(U) Microscopy of Materials	(V) Materials Synthesis- Novel Approaches	(W) Nanodevices	Forums (Tentative): (X) Materials Education (Y) 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. For further details refer to website www.icam2007.com

**APAM INDIA CHAPTER MEETING, 17th ANNUAL GENERAL MEETING OF
MRSI AND THEME SYMPOSIUM ON
BIO, BIOMEDICAL AND NATURAL MATERIALS**

February 12-15, 2006
Lucknow University, Lucknow

PROGRAMME

February 12, 2006

Venue: Conference Room, Department of Business Administration, University of Lucknow

14.00-16.30 hrs **APAM India Chapter Meeting**

14:00-14.15 hrs Introductory Remarks
P Ramachandra Rao, President, APAM India chapter

14.15-14.30 hrs APAM Activities
S V Subramanyam, Secretary General, APAM

14.30-16.30 hrs APAM Speakers

16.30-17.00 hrs Tea

17:00-18:00 hrs **MRSI Council Meeting**

14.00-17.00 hrs **MRSI - AGM Registration**

Venue : Malviya Hall, University of Lucknow, Lucknow

18.30-20.30 hrs **Public Lectures (PL)***

PL1 C.N.R. Rao, JNCASR, Bangalore
Science for our Future

PL2 R.A. Mashelkar, CSIR, New Delhi
India's Future: IT as in Indian Talent

20.30 hrs Dinner

February 13, 2006

Venue: World Unity Convention Centre, CMS Kanpur Road, Lucknow

08:00-09:00 hrs **MRSI-AGM Registration**

09:00-10:30 hrs Inaugural Session

10:30-11:00 hrs High Tea

Theme Symposium on Bio, Biomedical and Natural Materials

11:00-13:30 hrs **Inauguration and Theme Lectures (TL)**

TL1 M Hess, University of Duisburg-Essen Germany
Interactions of a water-soluble paclitaxel-polymer conjugate with albumins

TL2 C P Sharma, SCTIMST, Thiruvananthapuram
Blood Compatibility of Materials

TL3 S K Guha, IIT, Kharagpur
Biomaterials in population stabilization

TL4 A R Ray, IIT, New Delhi
New and Emerging Opportunities in the Biomedical Materials Sector in India

TL5 Byung-Wook Jo, Chosun University, Korea
Synthesis and Biological Activity of highly water-soluble paclitaxel prodrug conjugated with polyethylene glycol

13:30-14:30 hrs Lunch

14:30-16:30 hrs

ML1

Medal lectures (ML)

A. Patra, CGCRI, Kolkata
Nano-Materials for photonic applications

ML2

A K Ganguli, IIT, Delhi
Nanoparticles and nanorods synthesised using reverse micelles

ML3

T K George, RRL, Trivandrum
Tailoring the Optical Properties of Nanomaterials

ML4

S K Pati, JNCASR, Bangalore
Modelling Nonlinear Optical Materials: An Overview from my lab

16:30-17:00 hrs

17:00-18.00 hrs

Tea

Distinguished Materials Scientist of the year Award Lecture

N Kumar, RRI, Bangalore
Supersolid: Square Root of a Classical Solid?

18:00-19:00 hrs

19:00-20:15 hrs

20:15 hrs

Award Presentation and AGM

Cultural Programme

Dinner

February 14, 2006

09:00-10:30 hrs

MRSI-ICSC Superconductivity and Materials Science Annual Prize Lectures

G Sundararajan, ARC-I, Hyderabad (Title awaited)
A K Shukla, CECRI, Karaikudi
Lightweight Lead-acid Batteries: Yoking Materials Science to Electrochemistry

10.30-11:00 hrs

11:00-13:30 hrs

TL6

Tea

Theme Lectures (TL)

V.D. Gupta, Integral University, Lucknow

Phase Transitions in Biomaterials

TL7

M. Vijayan, Indian Institute of Science, Bangalore
Nature's nanomachines. A case study of their structure and interactions

TL8

S Wartewig, Martin Luther University, Germany
Ceramides a special class of lipids, their importance for the properties of mammalian stratum corneum

TL 9

A P Ayala, University of Duisburg-Essen, Germany
Solid State Characterization of Pharmaceutical compounds using vibrational spectroscopy

TL10	T P Singh, AIIMS, New Delhi <i>High-throughput structural biology and drug discovery: opportunities and challenges</i>	TL12	C S Saimbi, King George Dental University, Lucknow <i>Use of Herbal Medicines in Dentistry</i>
13:30-14:30 hrs	Lunch	TL13	P K Seth, Biotech Park, Lucknow <i>Biomedical Applications of Plastics and safety concerns</i>
14:30-16:30 hrs	Poster Session & Tea	TL14	M. Kidwai, University of Delhi, Delhi <i>Ecofriendly approaches for Biomaterials</i>
16:30-18:30 hrs	Medal Lectures (ML)	11:30-13:30 hrs	Invited Lectures (IL) Session B
ML5	S M Shivaprasad, NPL, New Delhi <i>Heteroepitaxial Growth of Low Dimensional Phases and Nanostructures</i>	IL1	S Rastogi, Eindhoven University of Technology, The Netherlands <i>Dissolution of hydrogen bonded polymers in water: from synthetic to biopolymers</i>
ML6	S Srinivasan, NIAS, Bangalore <i>Phases and faces of bronzes: Archaeometallurgical insights</i>	IL2	Prof. D Berak, Polymer Inst. of the Slovak Academy of Sci., Slovakia <i>Barrier Methods in Liquid Chromatography of Macromolecules</i>
ML7	S Das, IIT, Kharagpur <i>A Study on Recrystallization Behaviour and Mechanical Properties of some Aluminium Packaging Alloys</i>	IL3	K S. Smirnov, Univ. des Sciences et Tech.de Lille, France <i>Modelling studies of dense and microporous aluminosilicate barrier</i>
ML8	A J Pal, IACS, Kolkata <i>Donor-acceptor interfaces in organic devices</i>	IL4	Tej Singh, NRLC, Lucknow <i>Challenges in the Conservation of Materials of Cultural Heritage</i>
18:30-20:00 hrs	Plenary Lectures (P)	13:30-14:30 hrs	Lunch
P1	M Matsuo, Nara Woman's University, Japan <i>Polarized Small Angle Light Scattering from Natural and Synthetic Polymer Gels Estimated in Terms of a Statistical Approach</i>	14:30-16:30 hrs	Poster Session & Tea
P2	Jung-II Jin, FRSC, Director, Korea University, Seoul, Korea <i>Molecular Science of Modified DNAs – Electrical and Magnetic Properties</i>	16:30-18:00 hrs	Medal Lectures (ML)
20.00 hrs	Dinner	ML13	S Sampath, IISc, Bangalore <i>Interfacial Studies Using Exfoliated Graphite and Exfoliated Graphite Oxide Towards Electroanalytical and Supercapacitor Applications</i>
February 15, 2006		ML14	B P Kashyap, IIT, Mumbai <i>Deviation from ideal microstructure and its correlation with flow-property during superplastic deformation</i>
09:00-11:00 hrs	Medal Lectures (ML)	ML15	S Srikanth, NML, Chennai <i>Effect of mechanical activation of some minerals and metals on their physical properties and phase transformations</i>
ML9	R C Budhani, IIT-Kanpur (last year's awardee) <i>Superconductivity and magnetism in oxides-based epitaxial heterostructures</i>	18:00-19:30 hrs	GC Jain Memorial Prize Lectures
ML10	K G M Nair, IGCAR, Kalpakkam <i>Application of Low energy Accelerators in Materials Research</i>	19:30:20:30 hrs	Concluding Session including presentation of GC Jain Memorial Prize, Best Poster Prizes and Best Paper Prize
ML11	P Tandon, Lucknow University, Lucknow <i>Vibrational Dynamics of polymers</i>	20:30 hrs	Dinner
ML12	U Natarajan, NCL, Pune <i>Computational Physical Chemistry and Molecular Simulations of Polymers at Various Levels</i>	February 16, 2006	
11:00-11:30 hrs	Tea	Venue: Malviya Hall, University of Lucknow, Lucknow	
11:30-13:30 hrs	Theme Lectures (TL) Session A	Public Lecture*	
TL11	V Parmar, University of Delhi, Delhi <i>Natural Polymers in the generation of novel materials</i>	17:00-18:00 hrs	M Vijayan, Indian Institute of Science Bangalore <i>Structural genomics of infectious agents</i>

* Also to celebrate the 85th Anniversary of the University of Lucknow

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CALENDAR OF EVENTS

(FEB-SEP 2006)

February 7-9, 2006, National Conference on Luminiscence and its Applications (NCLA-2006), Dr. S K Omanwar, Convener NCLA-2006, Department of Physics, Amravati University, Amravati 444602, Fax: 0721-2662135/2660949, Email: ncla2006amt@rediffmail.com

February 13-15, 2006, 17th AGM of MRSI, Dr. Poonam Tandon, Convener, 17th AGM MRSI Secretariat, Department of Physics, University of Lucknow, Lucknow 226 007, Tel: 9415409735, Fax: 0522-2740467, Email: mrsi@lkouniv.ac.in

February 16-17, 2006, National conference on Recent Advances in Materials Science, Dr. V Krishnakumar, Convenor (NCMS-2006), Department of Physics, Periyar University, Salem 636 011, Tel: 0427-2345766, Fax: 0427-2345565, Email: vkrishna_kumar@yahoo.com

February 20-22, 2006, National Workshop on Advanced Techniques for Materials Characterization, Prof. N L Singh, Convener, Physics Department, Faculty of Science, The M S University of Baroda, Vadodara 390 002, Tel : 0265-2793339 , 09426409840, Email: singhnl_msu@yahoo.com

February 23-24, 2006, A conference on emerging trends in Materials and Advanced Manufacturing Process, The Chairman, Organizing committee, Materials Show 2006, ASM International Pune Chapter, C/o Arkey Service Conference Cell, 37/4/A, 6th Lane, Prabhat Road, Pune 411 004, Tel: 020-25670808, 25674455, Fax: 020-25672555, 25676767, Email: rkengg@pn2.vsnl.net.in

CALENDAR OF EVENTS contd.....

February 24-26, 2006, XVI Conference of Society for Biomaterials and Artificial Organs-India on Biomaterials, Tissue Engineering and Medical Diagnostics, Convener, XVI SBAOI conference Secretariat, Centre for Biomedical Engineering, Indian Institute of Technology, New Delhi 110 016, Telefax: 011-26596132, Fax: 011-26582277, 26582037, Email: sbaoiconference@rediffmail.com, hodcbme@cbme.iitd.ernet.in

April 17-21, 2006, XV symposium on Non-oxide and New Optical Glasses, Prof. K S Sangunni, Convener, ISNOG, Department of Physics, Indian Institute of Science, Bangalore 560 012, Tel: 080-22933279, Fax: 080-23602602, Email: isnog@physics.iisc.ernet.in

June 18-22, 2006, ELECTROCERAMICS X, Sociedad Espanola de Ceramics y Vidrio, Instituto de Ceramicay Vidrio, Kelsen 5, 28049 Cantoblanco, Madrid, Spain, Tel: +34 91 735 58 40, Fax: +34 91 735 58 43, Email: electroceramics-x@icv.csic.es

July 3-6, 2006, V International Conference on Mechanochemistry and Mechanical Alloying, INCOME 2006, Prof. N Lyakhov, Institute of Solid State Chemistry and Mechanochemistry, Kutateladze 18, Novosibirsk 630 128, Russia, Tel: 7 (383) 332 86 83, Fax: 7 (383) 332 28 47, Email: conf@solid.nsc.ru

August 20-25, 2006, Eighth International Conference on nanostructured Materials, NANO-2006, Conference Secretariat, Department of Metallurgy, Indian Institute of Science, Bangalore 560 012, Tel: 080-22932262 / 22932558/22932684, Fax: 080-23601991/23600472, Email: nano2006@met.iisc.ernet.in, URL: <http://met.iisc.ernet.in/~nano2006>

September 4-6, 2006, Third International Conference on "Spray Deposition & Melt Atomisation"(SDMA2006) and "Sixth International Conference on Spray Forming "(ICSF VI), Professor Dr.-Ing. Klaus Bauckhage and Dr.-Ing. V. Uhlenwinkel, University of Bremen, Germany, Email: sdma2006@iwt.uni-bremen.de

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"

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