



MRSI Newsletter

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

Volume B 07, Number 1

January 2007

From the Editors' Desk



The Annual General Meeting of MRSI which will be held during February 12-14, 2007 in New Delhi will be preceded by half-a-day meeting of the Asia Pacific Academy of Materials (APAM) India chapter as in previous years. The detailed programme of the AGM is given in this issue. As can be seen from the programme, the special feature of this meeting is a public lecture by Dr. Anil Kakodkar, Secretary, DAE, Government of India. We expect a large participation in this AGM.

The successful launching of PSLV early this year is a big boost to our space programme. This mission is particularly significant to us since it has provided for the first time an indigenous recoverable platform for carrying out experiments under microgravity conditions. This will certainly open the doors for more such experiments in future.

The editors take this opportunity to wish all the members of MRSI a very happy, prosperous and purposeful year ahead.



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.

Mashelkar R A	Bio-Spectrum Life Time Achievement Award, 2006
Manjit Singh	Bharat Excellence Award from Friendship Forum of India, 2006
Sundaram C V	Life Time Achievement Award, Indian Institute of Metals, 2006
Ranganathan S	Prof. Jai Krishna Memorial Award, INAE, 2006

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 **Eighteenth Annual General Body Meeting** of MRSI will be held on **12th February 2007** between 17.00-18.30 hrs at NPL Auditorium, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi 110 012.

The Agenda for the Meeting is as follows:

1. Welcome by the President, MRSI
2. Confirmation of the Minutes of the Seventeenth Annual General Meeting and action thereon
3. Presentation of the Annual Report for 2006
4. Report on International links of Materials Research Society of India
5. MRSI-Publications : Report by the Editor
6. Award for the Best Paper published in Bulletin of Materials Science
7. Presentation of the Statement of Accounts for 2006
8. Election of Honorary Members
9. Venue for the 19th AGM (2008) & 20th AGM (2009)
10. Reconstitution of the Council of MRSI for the period 2007-2010
11. Items from the members
12. Any other matter

Obituary

We regret to report the passing away of Prof. K H Kuo, Beijing Laboratory of Electron Microscopy, Institute of Physics, Chinese Academy of Sciences on December 13, 2006 at Beijing due to lung and heart failures. Prof Kuo played a stellar role in the emergence of modern materials science in China in the aftermath of the cultural revolution. Prof Kuo has made seminal contributions in electron microscopy and quasicrystals. He had numerous friends in India and collaborated with many Indian scientists. He was an Honorary Member of the Materials Research Society of India.

In his death we have lost a great scientist and a wonderful human being. But we shall cherish his association and accomplishments.

**APAM INDIA CHAPTER MEETING, 18TH ANNUAL GENERAL MEETING OF MRSI
AND THEME SYMPOSIUM ON
MATERIALS FOR ENERGY GENERATION, CONSERVATION AND STORAGE
February, 11-14, 2007, New Delhi
TENTATIVE PROGRAMME**

FEBRUARY 11, 2007 (Sunday)			
VENUE : DRDO Bhawan, Near Sena Bhawan, Rajaji Road, New Delhi - 110 011			
14:00-16:00 hrs	APAM India Chapter Meeting	09:30 hrs	Distinguished Materials Scientist of the Year Lecture by Dr. V. K. Aatre Former Scientific Adviser to Raksha Mantri <i>My Encounter with Materials and Materials Science</i>
14:00-14:15 hrs	Introductory Remarks by Prof. P. Ramachandra Rao President, APAM India Chapter	10:15 hrs	Vote of thanks by Dr. Anil K. Gupta
14:15-15:45 hrs	APAM Speakers Dr. R. P. Singh, PGCI, Gurgaon <i>Energy Scenario with particular reference to India</i> Dr. R. K. Malhotra, IOC, Faridabad <i>Road to Alternative Fuels – Biofuels and Hydrogen</i>	10:30-11:00 hrs	HIGH TEA
15:45-16:00 hrs	APAM Activities & Concluding Remarks by Prof. O. N. Srivastava, Secretary, APAM India Chapter	Session – I	
16:00-16:30 hrs	TEA	11:00-13:30 hrs	Theme Lectures (TL)
16:30-18:45 hrs	MRSI Council Meeting	TL 1	Dr. S. K. Chopra, MNES, New Delhi <i>Future Energy Options</i>
VENUE : Auditorium, DRDO Bhawan		TL 2	Dr. R. R. Sonde, NTPC, Noida <i>New energy technologies and role of composites & ceramics, biomaterials, adsorbants, thin films (COMBAT) in their development.</i>
19:00-20:30 hrs	Public Lecture by Dr. Anil Kakodkar	TL 3	Prof. K. T. Jacob, IISc, Bangalore <i>Regenerative Fuel Cells</i>
19:00 hrs	Welcome address by Dr. Vikram Kumar	TL 4	Prof. O. N. Srivastava, BHU, Varanasi <i>Hydrogen Energy with particular reference to Hydrogen Storage Material</i>
19:05 hrs	Remarks by Mr. M. Natarajan Scientific Adviser to Raksha Mantri	TL 5	Dr. K. Bhanu Shankar Rao, IGCAR, Kalpakkam <i>Structural Materials for Fission and Fusion Reactors</i>
19:15 hrs	Public Lecture “ <i>Nuclear Energy: An Emerging Primary Energy Source</i> ” by Dr. Anil Kakodkar, Secretary, Department of Atomic Energy, Govt. of India	13:30-14:30 hrs	LUNCH
20:15 hrs	Presidential Remarks by Dr. R. A. Mashelkar	Session - II	
20:25 hrs	Vote of Thanks by Dr. Anil K. Gupta	14:30-16:30 hrs	Medal lectures (ML)
20:30 hrs	DINNER	ML1	Dr. Amlan J. Pal, IACS, Kolkata <i>Molecular Rectifiers and Nanodiodes</i>
14:00-17:00 hrs	Venue : DRDO Bhawan Lawns MRSI AGM Registration Venue : NPL Auditorium	ML2	Dr. N. Chandrabhas, JNCASR, Bangalore <i>Nanoparticles and biomolecules: A Surface Enhanced Raman Spectroscopic Study</i>
FEBRUARY 12, 2007 (Monday)		ML3	Dr. Chacko Jacob, IIT, Kharagpur <i>Wide Bandgap Semiconductors : Films, Flowers and other Structures</i>
VENUE : NPL Auditorium		ML4	Dr. Ashok M. Raichur, IISc, Bangalore <i>Polyelectrolyte multilayer capsules: A new approach to controlled delivery</i>
08:00-09:00 hrs	MRSI – AGM Registration	16:30-17:00 hrs	TEA
09:00-10:30 hrs	Inaugural Session	17:00-18:30 hrs	AGBM & MRSI Awards Presentation
09:00 hrs	Welcome address by Dr. Vikram Kumar	18:30-19:00 hrs	TEA
09:05 hrs	Introduction to the MRSI AGM by Dr. S. B. Krupanidhi	19:00-20:15 hrs	Cultural Programme
09:15 hrs	Address by Dr. P. Rama Rao	20:15 hrs	DINNER

FEBRUARY 13, 2007 (Tuesday)	
VENUE : NPL Auditorium	
Session – III	
09:00-10:30 hrs	MRSI-ICSC Superconductivity and Materials Science Annual Prize Lectures (i) Prof. M. K. Surappa, IISc, Bangalore <i>Metal Matrix – Ceramic Composites : Processing, Properties and Applications</i> (ii) Dr. C. S. Sundar, IGCAR, Kalpakkam <i>Insulator to Metal transition in Manganites and Cobaltates: Insights from local probe studies of structure and magnetism</i>
10:30-11:00 hrs	TEA
Session – IV	
11:00-13:30 hrs	Theme Lectures (TL)
TL 6	Dr. G. Sundararajan, ARCI, Hyderabad <i>Materials for Fuel Cells</i>
TL 7	Dr. J. Rangarajan, NMRL, Ambernath <i>Development of Fuel Cells : NMRL Approach</i>
TL 8	Prof. Swati Ray, IACS, Kolkata <i>Nanocrystalline Silicon: a material for stable thin film Silicon Solar Cells</i>
TL 9	Dr. J. J. Isaac, NAL, Bangalore <i>Power Generation From Renewable Energy Sources : Spin-off of NAL's Aerospace Technology</i>
TL 10	Prof. A. K. Shukla, CECRI, Karaikudi <i>Recent Developments in Materials for PEMFCs</i>
13:30-14:30 hrs	LUNCH
14:30-16:00 hrs	Poster Session & Tea
Session – V	
16:00-18:30 hrs	Medal Lectures (ML)
ML5	Dr. Subrata Chatterjee, Bengal Engg. & Science University, Howrah <i>Diffusion Bonding of Dissimilar Materials</i>
ML6	Prof. R. Ranganathan, SINP, Kolkatta <i>Antiferromagnetism in Intermetallic Perovskites and Oxide Materials</i>
ML7	Dr. R. N. Basu, CGCRI, Kolkata <i>Materials Processing Techniques for Solid Oxide Fuel Cell</i>
ML8	Dr. Ashim K. Mukhopadhyay, DMRL, Hyderabad <i>Influence of Trace/Micro Alloying Additions and Impurities on the Microstructure and Properties of Precipitation Hardening Wrought Aluminium Alloys</i>
ML9	Dr. A. Ajaya Ghosh, RRL, Thiruvananthapuram <i>Electronically Functional Soft Materials of Self-assembled Linear π Systems</i>
20:00 hrs	DINNER
FEBRUARY 14, 2007 (Wednesday)	
VENUE : NPL Auditorium	
Session – VI	
09:00-11:15 hrs	MRSI Distinguished Lecturership Award Lecture Dr. A. K. Singh, NAL, Bangalore <i>Solids under ultrahigh static pressures: modelling of stresses and strains</i>
ML10	Dr. G. Parthasarathi, NGRI, Hyderabad <i>Mineral Physics of Carbon Polymorphs and the Earth's Geological History</i>
ML11	Dr. L. C. Pathak, NML, Jamshedpur <i>Innovative Processing of Advanced Materials: Nanocrystalline Ceramics and Composites</i>
ML 12	Dr. Sujeet Chaudhary, IIT-Delhi, New Delhi <i>Room Temperature Ferromagnetism in the Transition Metal Substituted II-VI Semiconductors - Materials for Spintronics</i>
11:15-11:30 hrs	TEA
Session – VII	
11:30-12:30 hrs	Theme Lecture (TL)
TL 11	Dr. S. N. Singh, NPL, New Delhi <i>Terrestrial Solar Cells</i>
TL 12	Prof. L. M. Das, IIT, New Delhi <i>Alternative Low-Emission Fuels : Solutions to Emerging Energy-Environment Crises</i>
12:30-13:30 hrs	G.C.Jain Memorial Prize Lectures
13:30-14:30 hrs	LUNCH
14:30-16:00 hrs	Poster Session & Tea
Session – VIII	
16:00-17:30 hrs	Invited Lectures (IL)
IL 1	Prof. K. Sreenivas, DU, Delhi <i>Multifunctional Properties and applications of ZnO</i>
IL 2	Dr. S. K. Dhawan, NPL, New Delhi <i>Conducting Polymers – New Materials for Technological Applications</i>
IL 3	Dr. M. Arun Kumar, GM R&D, Bangalore <i>Light Weight Materials for Automotive Applications</i>
17:30-18:30 hrs	Concluding Session including presentation of G.C.Jain Memorial Prizes & Best Poster Prizes
18:30 hrs	TEA

Note:

- For APAM India Chapter members, transport will be available from their respective Guest Houses at 13:15 hrs for going to DRDO, Bhawan.
- For Council Members, transport at 15:30 hrs will be available from INSA Guest House/NPL Guest House/NASC Guest House for going to DRDO Bhawan for Council meeting and Public Lecture.
- For delegates & Invitees, transport will be available between 18:00-18:30 hrs at NPL Reception for going to DRDO Bhawan for Public Lecture & Dinner.
- Delegates/Invitees are kindly requested to carry their Invitation Cards/MRSI badges in order to facilitate entry at DRDO Bhawan for security reasons.



IUMRS - ICAM 2007

10th International Conference on Advanced Materials 8-13, October, 2007, Bangalore, India Venue: HOTEL GRAND ASHOK



As you are aware MRSI will be organizing the IUMRS-ICAM 2007 in Bangalore, India during October 8-13, 2007. 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 six day conference with more than ten parallel sessions. We are giving below the list of theme symposia to be held at this conference along with the contact details of the theme symposia chairs. For further details refer to website www.icam2007.com

Theme symposia	Chair / Co-chair
(A) Intelligent Materials	AR Upadhyaya, NAL, Bangalore Email: director@css.cmmacs.ernet.in / S Mohan, TG Ramesh, AP Malshe, C Boller, H. Asanuma, J Narayana Das
(B) MEMS	Rudra Pratap, IISc, Bangalore, Email: pratap@mecheng.iisc.ernet.in / KN Bhat, B Darling, K Natarajan, P Ryser,
(C) Functional Materials	Dhananjai Pandey, BHU, Varanasi, Email: dpandey@bhu.ac.in / R Friend, H Ishiwara, D Kumar, KBR Varma, U Waghmare
(D) Self Assembly & Nanomaterials	S Bhattacharya, IISc, Bangalore, Email: sb@orgchem.iisc.ernet.in / GU Kulkarni, P Ayyub
(E) Magnetic & Spintronics Materials	KVS Rama Rao, IIT-Madras, Chennai, Email: kvs@iitm.ac.in / PS Anil Kumar, G Markandeyulu, VG Harris, I Felner
(F) Semiconductors for Opto- electronics	V Kumar, NPL, New Delhi, Email: vkmr@mail.nplindia.ernet.in / B Dev, BM Arora, H Hasegawa, P Dutta
(G) Materials for Biomedical Applications	M Jayabalan, SCTIMST, Thiruvananthapuram, Email: jayabalan@sctimst.ac.in / muthujayabalan@rediffmail.com BR Ratner, E Piskin, PR Apte, GV Shivashankar, Y Tabata
(H) Soft Condensed Matter	A K Sood, IISc, Bangalore, Email: asood@physics.iisc.ernet.in / DA Weitz, A Yodh, J Raedler, M Rao
(I) Polymer Materials	A Misra, IIT-Bombay, Mumbai, Email: amisra@iitb.ac.in / S Ramakrishnan, R Menon, S Sivaram, P Lemstra, M Tirrell, A Windle
(J) Sensor Materials	Kamal Singh, Amaravati University, Amaravati Email: kamalsingh48@indiatimes.com / PS Devi, AR Raju, HL Tuller, E Traversa, J Maier, P Gouma, BG Muller
(K) Photonic Materials/Active Organic Materials	K S Narayan, JNCASR, Bangalore, Email: narayan@jncasr.ac.in / J Zyss, VPN Nampoori
(L) Multilayered Materials	MK Sanyal, SINP, Kolkata, Email: milan@lotus.saha.ernet.in / SD Bader, Y Iye, H Dosch, RK Budhani, JK Basu
(M) Hybrid Materials	R Murugavel, IIT-Bombay, Mumbai, Email: rmv@iitb.ac.in / JV Yakhmi, BARC, Mumbai, Email: yakhmi@magnum.barc.ernet.in / PK Bharadwaj, J Gopalakrishnan, C Sanchez, TD Tilley, MJ Rosseinsky, M Fujita
(N) Energy Materials	KT Jacob, IISc, Bangalore, Email: katob@met.iisc.ernet.in / AK Shukla, AK Barua, ON Srivastava, SC Singhal, J Mizusaki, M Gratzel, J Nozik, GJ Meyer
(O) Composite Materials	MK Surappa, IISc, Bangalore, Email: mirle@met.iisc.ernet.in / YR Mahajan, MK Sridhar, E Lavernia, A Mortensen
(P) High Performance	Baldev Raj, IGCAR, Kalpakkam, Email: dir@igcar.gov.in / S Banerjee, D Banerjee, RL Klueh, G Sundararajan, G Malakondaiah, AAlamo, LM Manocha, S Karthikeyan
(Q) Computational Materials Science	GP Das, IACS, Kolkata, Email: msgpd@mahendra.iacs.res.in / G Ananthkrishna, S Balasubramanian, P Bloechl, S Datta, L Kubin, V Kumar, S Narasimhan
(R) Materials for Catalysis	B Viswanathan, IIT-Madras, Chennai, Email: bvnathan@iitm.ac.in / Rajiv Kumar, S Natarajan, S Narayanan, PA Wright
(S) Characterization of Materials	P Chaddah, CSR, Indore, Email: chaddah@csr.ernet.in / A K Raychaudhuri, G Solórzano, I Samajdar, L Cohen, S Das, V S Raghunathan, V K Pecharsky
(T) Microscopy of Materials	K Chattopadhyay, IISc, Bangalore, Email: kamano@met.iisc.ernet.in G K Dey, K Muraleedharan

(U) Materials Synthesis-Novel Approaches	K Byrappa, Univ.of Mysore, Mysore, Email: byrappak@yahoo.com / M Yoshimura, RE Riman,N Setter
(V) Nanomaterials and devices	LM Kukreja, Raja Raja Ramanna Centre for Advanced Technology, P.O CAT, Indore 452 013, India, Email: kukreja@cat.ernet.in/N Bhat, V Venkataraman, P Ziemann, R Katiyar
(W) Materials Education	P Ramachandra Rao, DIAT, Pune, Email: pramachandra_rao@yahoo.com / P Rama Rao, S Suresh

New Members

Enrolled between October 1 and December 31, 2006

Life Members

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CALENDAR OF EVENTS (JANUARY 2007 - DECEMBER 2007)

January 12-16, 2007 , Workshop on Bulk Metallic Glasses :Science and Technology, Prof. S Ranganathan, Department of Metallurgy, Indian Institute of Science, Bangalore 560 012, Tel: 080-23601198/22932558, Fax: 080-23601198, Email: bmg2007@met.iisc.ernet.in
February 5-9, 2007 , A Workshop on Mechanical Behaviour of Systems at Small Length Scales, Prof. V. Jayaram, Department of Metallurgy, Indian Institute of Science, Bangalore - 560 012, Phone: (91)-80-2293 3243, Fax: (91) - 80-23601198, Email: qjayaram@met.iisc.ernet.in, workshop@met.iisc.ernet.in
February 12-14, 2007 , 18 th Annual General Meeting of MRSI, Dr. Anil K Gupta, Chairman, MRSI Delhi Chapter, Division of Engineering Materials, National Physical Laboratory, Dr. K S Krishnan Marg, New Delhi 110 012, Tel: 011-25726981, Fax: 011-25726938, Email: agm_mrsi2007@mail.nplindia.ernet.in, Website: www.nplindia.org/mrsi2007
March 8-9, 2007 , National Conference on Smart Electroceramics (NCSE 2007), Dr. N. Raghu, Convenor, NCSE 2007, C-MET, Shoranur Road, Athani P.O., Thrissur - 680 771, Ph. 0487-2201156,57,58,59. Fax: 0487-2201347. E-mail: ncse2007@cmnet.gov.in, Website: http://www.cmet.gov.in
July 1-6, 2007 , International Conference on Materials for Advanced Technologies (ICMAT 2007), ICMAT Secretariat, Materials Research Society of Singapore, c/o Institute of Materials Research & Engineering, 3, Research Link, Singapore 117 602, Tel: (65) 6874 1975, (65) 6778 1036, Fax: (65) 6777 2393, Email: icmat@mrs.org.sg
October 8-13, 2007 , International Conference on Advanced Materials (ICAM 2007), Prof. S B Krupanidhi, Conference Chair, IUMRS-ICAM Secretariat, Materials Research Society of India, Indian Institute of Science, Bangalore 560 012, Tel: 080-22932882, 55334302, Fax: 080-23602028, Email: secretariat@icam2007.com, Website: www.icam2007.com
December 12-14, 2007 , International and INCCOM-6 Conference on Future Trends in Composite Materials and Processing, Organizing Secretary, Kamal K Kar, Dept. of Mechanical Engineering, and Materials Science Programme, Joint Secretary, J Ramkumar, International and INCOMM-6 Conference, 2007, Indian Institute of Technology-Kanpur, Kanpur 208 016, Tel: 0512-2597687, Fax: 0512-597459, 597408, Email: incomm6@iitk.ac.in

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"

DISCUSSION MEETING ON MATERIALS UNDER HIGH PRESSURES (MRSI-MHP)

15th February, 2007

This is an important event for high-pressure science and technology community in India. The previous six high pressure conferences were held at Bangalore (1994), Bilaspur (1995), Mumbai (1996), Kalpakkam (1997), Chennai (1999) and New Delhi (2001). This is a forum for all high-pressure scientists to express their findings in the area of static and dynamic high-pressure science. During the conference, a conscious effort is always made to provide scholarly reviews on frontier topics in this field and to provide motivation to newcomers to pursue research in high-pressure physics/science.

The conference will cover the following aspects of high-pressure science and technology:

- ❖ Instrumentation and techniques employed in static and dynamic high pressure research
- ❖ Static and dynamic pressure standards calibration and safety aspects
- ❖ Optical, electronic, transport and other properties of condensed matter
- ❖ Applications of high pressures in materials processing
- ❖ Synthesis of materials
- ❖ Mineral science, geophysics, geochemistry and planetary sciences

Programme

The conference will consist of a number of invited talks and selected oral presentations. Researchers interested in presenting their work at the MRSI-MHP are requested to send an abstract as per Abstract Guidelines of 18th AGM MRSI. Only quote "MRSI-MHP" and copy to us.

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