



MRSI Newsletter

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

Volume B 03, Number 1

January 2003

From the Editors' Desk

The New Year heralds the Science Congress in India and the 90th Science Congress in Bangalore got inaugurated by the Prime Minister of India. What is special about this meeting is the unveiling of the new science and technology policy of the country. This is a recognition of the primordial role given to S&T in the country. The policy statement amongst other things declares increased funding for S&T and granting of autonomy for scientific institutions and universities besides setting up of centres of excellence. It is fondly hoped that these measures will provide the necessary impetus to further the cause of S&T in the country.

The fourteenth AGM of MRSI will be held at BARC, Mumbai during 11-13 February 2003 with the theme symposium on 'Novel Polymeric Materials'. We do expect to have a large congregation of MRSI members.

Our best wishes to members for a very happy and purposeful New Year.



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 03, Number 1

January 2003

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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MRS FALL MEETING : A REPORT

IMPRESSIONS OF A MATERIALS BAZAAR

In the past six decades materials science and engineering has emerged as a major field of research. Part of the explosive growth can be traced to organized professional societies fostering its growth by arranging conferences and publishing archival journals. In this endeavour the pride of place goes to the Materials Research Society (MRS) of the U S A. MRS conducts two major meetings every year, the Spring Meeting in San Francisco and the Fall Meeting in Boston. A brief description of the recently concluded MRS Fall 2002 meeting held in Boston- with MIT and Harvard forming an academic backdrop- from December 2 to 6, 2002 held under the Presidentship of Prof Alex King follows.

In his book on "Stuff: The Materials the World is Made of", Ivan Amato gave a colourful description of the MRS meetings by comparing them with the Serengeti National Park in Tanzania to give a flavour of the diversity of products, papers and practitioners. For the Indian reader a more apt comparison will be that of the bazaar, where different shopkeepers vie for attention for different wares and products. As the participation is from across the globe- an attendance of several thousands is common – it is possible to meet the doyens as well as acolytes of the subject.

The meeting is comprehensively structured and revolves around special lectures, topical symposia, tutorials and exhibition of books and equipment. In his Plenary talk entitled " Nature is swell but..... is she worth copying? " Prof Steven Vogel (Duke University, U S A) was provocative in suggesting that the proposition that Nature does things better than mankind needs to be approached with scepticism. Biomimetics researchers, take notice! Prof R W Cahn (Cambridge University, U K), an Honorary Member of the Materials Research Society of India, delivered the David Turnbull Lecture. With the title: "Metallurgists and Materials Scientists: Scope for Scepticism" Prof Cahn noted that there is a clear shift from Metallurgy to a broader Materials Science and Engineering discipline as evidenced by the changing names of Journals and Academic Departments, though such shifts are sometimes incomplete. He was disturbed by the growing schism between those who study metals and alloys and the modern profession of materials science. Cahn suggested that the clock might be turned back and metallurgy may even become disengaged from the rest of the profession and this situation needs to be rectified. Prof Uzi Landman (Georgia Institute of Technology, U S A) a MRS Medallist, spoke on " Small is Different: Hard and Soft Nanotribological Junctions" and richly illustrated his talk with simulation. The second MRS medal lecture on "Nanowires as Building Blocks for Nanoscale Science and Technology- Building a Big Future from Small Things" was given by Prof Charles Lieber (Harvard University, U S A). It was a tour de force, as Prof Lieber discussed the growth and properties of nanowires. Truly a brave new world is emerging. The piece de resistance is, of course, the von Hippel Award Lecture, recognizing a lifetime of achievement. Prof Howard Birnbaum (University of Illinois at Urbana-Champaign) gave the 2002 Award lecture on "Hydrogen Effects in Metals"

There were as many as 40 symposia clubbed into 7 clusters (Polymers and Biomaterials, Nanomaterials and Technology, Electronics and Photonics, Spin, Superconductivity and Ferroelectrics , Surfaces, Interfaces and Membranes, Metals, Alloys and Inorganics and Materials Science and Society). These form the core of the conference with invited and contributed papers. At the risk of sounding partisan, attention may be drawn to the successful symposium on Bulk Metallic Glasses organized by Professors T Egami (U S A), Al Greer (U K) , A Inoue (Japan) and S Ranganathan (India). The poster sessions held in late evenings were an exciting encounter among authors and delegates.

One of the tutorials was on Nano- and Microelectromechanical Systems (MEMS and NEMS). Dr J Arturo Ayon (Sony Semiconductor) discussed the five major devices of pressure sensors, accelerometers, gyros, ink jet nozzles and hard disk drive heads. He also described various surface micromachining, bulk processing and bonding for creating MEMS. One learnt as much outside the formal lectures, as one wandered through vast acres of exhibition of latest equipment and books or debated nuances over lunch, dinner or beer. Many academic departments organize receptions for their alumni. It was a particular privilege as a non-alumnus to be invited to the reception organized by M I T, where Prof Subra Suresh, present Chair of the Department and an Honorary Member of MRSI, made a brilliant presentation of the progress of the department in recent years. The meeting is also organized with an incredible efficiency by the staff of MRS.

Perhaps there were 10 delegates from India, vastly outnumbered by the presence of the Indian diaspora. It is to be hoped that MRSI will actively work towards enhanced participation from India in these major events.

S. RANGANATHAN

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.

Ranganathan S	* Fellow of the Third World Academy of Sciences - 2002	Anish Upadhyaya	* INAE Young Engineer Award * TMS Ram Arora Award
	* Pt. Jawaharlal Nehru Award in the field of Engg. & Tech. Govt. of Madhya Pradesh	C G Krishnadas Nair	National Metallurgist Award
		T Jayakumar	Metallurgist of the Year Award Ministry of Steel & Mines, Govt. of India
Mukherjee G S	* Fellow, Institution of Engineers (FIE)	V S Raghunathan	GD Birla Gold Medal

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

New Members

Enrolled between October 1 and December 31, 2002

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Subject Group on :

Materials for Rural Development

We are considering the formation of a Subject Group on '**Materials for Rural Development**'. This will cover Building & Irrigation Materials, Materials for Tools, Clay Materials, High yielding & resistant seeds, Natural & Synthetic Fertilizers, Water-Conservation, Storage & Optimum consumption, Solar Energy Converters, etc.

Suggestions on possible activities and for the formation of a core group are most welcome.

S V Subramanyam

14th ANNUAL GENERAL MEETING & THEME SYMPOSIUM ON NOVEL POLYMERIC MATERIALS

February 11-13, 2003, Central Complex Auditorium
Bhabha Atomic Research Centre, Trombay
Mumbai 400 085

Tentative Programme

February 10, 2003

1500-1800hrs : APAM-India Meeting and MRSI
Council meeting
1400-2030hrs : Registration for AGM-MRSI at
TS Hostel, **Anushakti Nagar**

February 11, 2003

0900-0930 hrs : Registration-CC Auditorium, BARC
0930-11.00hrs : Inauguration Session
1100-1130hrs : **High Tea**
1130-1300hrs : **Distinguished Lectureship &
ICSC-MRSI Honour lectures**

- i. Dr S Sivaram, NCL, Pune
- ii. Dr S Banerjee, BARC, Mumbai
- iii. Prof B M Arora, TIFR, Mumbai

1300-1400hrs: **Lunch Break**
1400-1600hrs: Medal lectures

ML-1: Prof. B N Dev, IOP, Bhubaneshwar
*Surface and interface phenomena and self-assembled
Nanostructures*

ML-2 : Dr M Sastry, NCL, Pune
New methods for the synthesis and assembly of nanoparticles

ML-3: Prof. S Ram, IIT/Kharagpur
*New chemical methods with hydrolysis of Al-metal in
synthesis of novel nanostructured materials*

ML-4: Dr G N Subbanna, MRC, IISc, Bangalore
*Synthesis and characterisation of fine particles of barium
Hexaferrite and gamma ferric oxide*

1600-1630hrs: **Tea Break**

1630-1730hrs: Medal Lectures

ML-5: Dr A Bharathi, IGCAR, Kalpakkam
*Superconducting and normal state properties of doped Mg
Diborides*

ML-6: Prof. A Narayanasamy, University of Madras,
Chennai,
*Grain size dependent magnetic and electrical properties of
Magnetic materials*

1745-1830hrs : AGM and Award Presentation

1830-1930hrs : **Distinguished Material Sc. Lecture**
Prof. A K Barua, IACS, Kolkata

2000 on wards **Dinner**

February 12, 2003

Theme Symposium (TS) on Novel Polymeric Materials

0900-1100hrs: Inauguration and Invited Talks(TS)

IT-1: Prof. F E Karasz, University of Massachusetts, Amherst,
USA.

IT-2: Prof. A Contractor, IIT/B

IT-3: Dr P C Deb, NMRL, Ambernath

1100-1130hrs: **Tea Break**

1130-1310hrs: Invited Talks(TS)

IT-4: Prof. M.Tirrell, UCSB, USA

IT-5: Dr S Abhiram, HLL, Mumbai

IT-6: Prof A Ghosh IIT/Delhi

1315-1400hrs: **Lunch Break**

1400-1530hrs: **Poster Session-I and Tea**

1530-1810hrs: Invited Talks(TS) and Medal Lectures

IT-7: Prof. Su Moon Park, Korea

IT-8: Dr A Lele, NCL

IT-9: Dr Amit Biswas, GE Corporate(R&D), B'lore

ML-7: Dr C K S Pillai, RRL, Thiruvananthapuram
High value polymeric materials from renewable resources

ML-8: Prof. S S Sekhon, Guru Nanak Dev, Univ. Amritsar
Ion transport in proton conducting polymer/gel Electrolytes

1830-1930hrs: **Evening Lecture** by Prof. A. Windle, CU, UK
Carbon nanotubes under stress

2000hrs onwards **Dinner**

February 13, 2003

0900- 1100hrs: Medal Lectures

ML-9: Dr R Mitra, IIT/Kharagpur

*High temperature deformations and oxidation behaviour
of Molybdenum Di-Silicide based materials*

ML-10: Prof. D V Khakhar, IIT/B, Mumbai

Mixing and segregation in powder processing

ML-11: Dr A Sen, CGCRI, Kolkata

Tailored ceramic sensors for gas and moisture

ML-12: Dr G P Kothiyal, BARC, Mumbai

Preparation and studies of structure and thermo-mechanical aspects of some special glasses and glass-ceramics.

1100-1130 hrs : **Tea Break**

1130-1315hrs : **Mini-symposium
(Ion Beam processing of materials)**

- i. Dr Amit Roy, NSC, New Delhi
Accelerated ions from keV to GeV for ion beam interaction in Materials
- ii. Dr D K Awasthi, NSC, New Delhi
Facilities and techniques for ion beam interaction studies
- iii. Dr Ajay Gupta, IUC-DAEF, Indore
Heavy ion induced surface and interface modifications in thin films and multilayers

iv. Prof. V N Boraskar

Modifications of surface region of polymers and semiconductors by low and high energy ions

v. Prof. Arup Raychaudhuri, IISc Bangalore
Uses of ion beams in nano sciences

1315-1400hrs : **Lunch Break**

1400-1600hrs : **Poster Session –II and Tea**

1600-1730hrs : Medal Lectures

ML-13 : Prof. Jyothindra Kumar K, Govt. Dental College, Thiruvananthapuram

Orthodontic mechanotherapy today- a materialistic world

ML-14 : Dr A N Maitra, Univ. Delhi, Delhi

ML-15 : Dr Ratan Lal NPL, New Delhi(2002)

1730-1800hrs : **Concluding Session**

Instruction for Poster Presentation: The display area available for each poster is 1m x 1m. Authors of poster papers are advised to prepare the posters, which are adequately illustrative. There is provision to award a few best posters. The facilities like Power point presentation, overhead and slide projectors shall be available for oral presentations

Accommodation: Limited accommodation shall be available at BARC Training School Hostel/Guest House, IIT/B Guest House and other nearby Guest – Houses / hostels **on first come first served basis**. Those interested should send a token money of Rs 250/- immediately but not later than Jan.20, 2003.

REPORT ON RAIM-2002

An International symposium on “**Recent Advances in Inorganic Materials**” was held during the period 11-13 December 2002 at our institute under the aegis of Materials Research Society of India, Mumbai Chapter and Metals and Materials Association (MMA), IIT, Bombay. The number of registered participants was nearly 300. Out of this, about twenty of them were from overseas. The themes of the symposium were magnetic and electronic materials, electro optic materials, bio materials and nano materials. There were thirty six invited papers. A total of over two hundred papers were presented during the three days of the symposium. Another highlight of the symposium was the panel discussion on Nano materials and devices. Professor C.N.R.Rao, Founder president of MRSI and Linus Pauling Research professor, JNCASR, Bangalore delivered the inaugural lecture. The title of his talk was “*Universal aspects of self assembly*”. The inaugural session was presided over by professor M.G.K.Menon, Chairman, board of Governors, IIT, Bombay. The Director, Professor Ashok Misra gave the welcome address. Dr. S.Banerjee, Chairman, MRSI Mumbai Chapter talked about the activities of the chapter. Professor K.M.Gupt, Head of the department of mentioned about the activities of MMA and the department. Professor D.Chakravorty, President MRSI, India described the activities of MRSI in general. The inaugural session ended with a vote of thanks by professor D.Bahadur, convener of the symposium.

- D Bahadur, Convener

CALENDAR OF EVENTS, JAN - DEC 2003

January 20-23, 2003, International Conference on Phonons in Condensed Materials (Phonons 2K3), Dr. Sankar P Sanyal, Convener, Phonons 2K3, Department of Physics, Barkatullah University, Bhopal 462 026, Tel: 0755-488539/489028 (O), Fax: 0755-550606, Email: spsanyal@sancharnet.in

January 20-27, 2003, International School on Crystal Growth of Technologically Important Electronic Materials (ISCGTIEM), Prof. Dr. K Byrappa, Chairman, ISCGTIEM, University of Mysore, Dept. of Geology, P B No. 21, Manasagangotri, Mysore 570 006, India, Tel: +91-821-515185, Fax: +91-821-515185, Email: kbyrappa@rediffmail.com / byrappak@yahoo.com

<p>January 22-24, 2003, International Workshop on Recent Advances in Nanotechnology of Magnetic Fluids, (RANMF-2003), Dr. R P Pant, Secretary, RANMF-2003, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi 110 012, India, Tel: 011-5742610, Ext: 2309, Fax: 011-5852678/5764189, Email: rppant@csnpl.ren.nic.in / ranmf@csnpl.ren.nic.in, Website: http://www.nplindia.org</p>
<p>January 31 to 1 February 2003, National Seminar on Advances in Materials & Processing Technologies, Prof. U V Subba Rao, Chairman, AMPT-2003, Dept. of Physics, Osmania University, Hyderabad 500 007, Tel: 040-27097376, Fax: 040-27097936, Email: uvspd@rediffmail.com</p>
<p>February 11-13, 2003, 14th Annual General Meeting of MRSI, Dr. S Banerjee, Materials Group, Bhabha Atomic Research Centre , Trombay, Mumbai 400 085, Tel: 022-5505239/5505050, Fax: 022-5560750 Email: sbanerji@magnum.barc.ernet.in</p> <p>Prof. Ashok Misra, Director, IIT-Bombay, Powai, Mumbai 400 076, Tel: 022-5723488/5767000, , Fax: 022-5723456 (P) 5723480 (G), Email: director@iitb.ac.in/amisra@iitb.ac.in</p>
<p>February 15-16, 2003, National Conference on Materials, Components and Applications (MCA '03), Dr. Malay Ranjan Tripathy, Organizaing Chair, (MCA '03), Kalinga Institute of Industrial technology, Bhubaneswar 751 024, Tel: +91-674-442103, 443271, 320272, Fax: +91-674-442103, 443271, Email: mca2003@kiit.org Website: www.kiit.org/mca2003.htm</p>
<p>February 27-28, 2003, National Seminar on Materials and its Applications , (NASMA), Department of Physics & Electronics, Dr. R M L Avadh University, Faizabad 224 001 (UP)</p>
<p>March 6-7, 2003, National Seminar on Science & Technology of Nanomaterials, Prof. S P Sengupta, Convener, Department of Material Science, Indian Association for the Cultivation of Science, Kolkata 700 032, Tel: 033-4734971 (x 150), Fax : 033-4732805, Email: msspsg@iacs.res.in</p>
<p>March 24-26, 2003, Nineteenth National Symposium on Cryogenics (NNSC2002), Prof. B K Chaudhuri, Convenor, Dept. of Solid State Physics, Indian Association for the Cultivation of Science, Jadavpur, Kolkata - 700 032, Tel. : 033-24734971/2883/3542, 2483-6557/6558/6560, Fax: 033-24732805 Email : sspkbc@mahendra.iacs.res.in, sspkbc@rediffmail.com</p>
<p>April 14-16, 2003, Asian Consortium for Computational Materials Science (ACCMS-2), Dr. Jian Wu, Centre for Advanced Study, Tsinghua University, Beijing 100084, China, Tel: +86 (10) 6278.9972, Fax: +86 (10) 6278.1886, Email: accms@castu.tsinghua.edu.cn, Website: http://www.castu.tsinghua.edu.cn/accms</p>
<p>April 21-25, 2003, 2003 MRS Spring Meeting, Materials Research Society, 506 Keystone Drive, Warrendale PA 15086-7573, USA, Tel: 724-779-3003, Fax: 724-779-8313, Email: info@mrs.org</p>
<p>May 18-23, 2003, 4th International Conference on Intelligent Processing and Manufacturing of Materials (IPMM), IPMM Secretariat, Department of Mining Engineering, University of British Columbia, 6350 Stores Road, Vancouver BC., V6T 1Z4, Canada, Tel: 604-822-3984, Fax: 604-822-5599, Email: ipmm@mining.ubc.ca, Website: http://www.mining.ubc.ca/ipmm</p>
<p>June 10-13, 2003, E-MRS 2003 Spring Meeting, E-MRS Headquarters, BP 20, 67037, Strasbourg Cedex 2, France, Fax: +33 (0) 3 88 10 63 43, Email: Emrs@phase.c-strasbourg.fr</p>
<p>June 29 to July 4 2003, ICMAT 2003, International Conference on Materials for Advanced Technologies , and IUMRS-ICA 2003, International Conference in Asia, ICMAT Secretariat, Materials Research Society (Singapore), Institute of Materials Research & Engineering (IMRE), 3 Research Link Singapore 117602, Tel: (65) 6874 1975, Fax: (65) 6777 2393, Email: icmat@mrs.org.sg</p>
<p>October 10-13, 2003, IUMRS-ICAM, Yokohama, Japan, (details will be given later)</p>
<p>December 16-20, 2003, Twelfth International Workshop on the Physics of Semiconductor Devices, The Secretary, Twelfth IWPSD, Department of Electrical Engineering, IIT Madas, Chennai 600 036, Tel: 91-044-2578383, 2578362, Fax: 91-044-2570545, 2578383, Email: dasgupta@iwpsd.net / iwpsd@ee.iitm.ernet.in</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”

NOTICE

ANNUAL GENERAL BODY MEETING OF MRSI

The Fourteenth Annual General Body Meeting of MRSI will be held at 1745 hrs on **11th February 2003** at Bhabha Atomic Research Centre, Mumbai.

The Agenda for the Meeting is as follows:

1. Welcome by the President, MRSI
2. Confirmation of the Minutes of the Thirteenth Annual General Meeting and action thereon
3. Presentation of the Annual Report for 2002
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 2002
8. Election of Honorary Members
9. Venue for the Fifteenth Annual General Meeting of MRSI
10. Items from the members
11. Any other matter

Kindly communicate the details of the AGM to all the members of MRSI.

Book Post / Newsletter

From:

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