



MRSI Newsletter

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

Volume B 03, Number 2

April 2003

From the Editors' Desk

The Fourteenth Annual General Meeting held at BARC, Mumbai was a resounding success by all counts (details of the event given on page 2). What perhaps stood out was the active participation from R&D Laboratories of industries such as Reliance, General Electric, Hindustan Lever etc. This augurs well for our society.

This occasion also provided the correct ambience for the release of the book '**Materials Research-Current Scenario and Future Projections**' edited by Dr. R Chidambaram and Dr. S Banerjee. Members may please note the concessional price offered to them (details on page 15).

After a gap of 2 years, a brief write up of the activities of MRSI since its formation in 1989 has been prepared and is included in this issue. We hope members would find it useful.



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 2

April 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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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.

L N Satapathy	R L Thakur Memorial Award for Young Scientists for the year 2002
S K Roy	Pt. Lajja Shankar Jha Award for Engineering & Technology
Ajay Agarwal	Hari Om Ashram Award for Best Research Paper
Parag Bhargava	Young Engineer of the year Award-2002 by INAE

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

Letter from Prof. F Karasz, elected Honorary Member of MRSI during 2003

Dear Professor Subramanyam,

Thank you so much for sending me your Minutes. I must tell you that I was enormously impressed by the vitality and enthusiasm of your Society : long may it continue!

It is a great distinction therefore to have been made an Honorary Fellow of the Materials Research Society of India and one that I very much appreciate.

With my best regards

Frank Karasz

News in Brief

Prof. J Livage, Universite Pierre et Marie Curie, France, Honorary Member, MRSI, visited Bangalore as part of the French season in India and delivered two lectures. This provided an occasion for our members to interact with Prof. Livage.

REPORT ON THE 14th AGM OF MRSI

Materials Research Society of India (MRSI) Mumbai Chapter, in collaboration with BARC and IIT Bombay organised the 14th Annual General Meeting (AGM) of MRSI at Bhabha Atomic Research Centre (BARC) Mumbai during Feb. 11-13, 2003. The meeting was inaugurated on 11th February by Prof R Chidambaram, Principal Scientific Secretary, Government of India. In his inaugural address he emphasized the need of applications of modern materials to the development of rural industry. He also released a compilation entitled "Materials Research in BARC: Highlights" specially prepared for the occasion. Dr Anil Kakodkar, Chairman, AEC and Secretary to Govt. India in his keynote address mentioned among others, about the challenges and opportunities of materials research and development in Indian Nuclear Programme and also pointed out some of the importance of nuclear materials. Shri B. Bhattacharjee, Director, BARC while welcoming the participants, dignitaries and invitees, elaborated on some of the recent advances in BARC in the areas of materials research. Prof. Ashok Misra, Director, IIT Bombay and Chairman of the Organising committee gave a brief introduction to this meeting and highlighted the special features of theme symposium on "Novel Polymeric Materials". It was pointed out that the theme symposium on polymeric materials was being organised for the first time under the aegis of MRSI. The presidential address of Prof D Chakravorty, President MRSI and Professor IACS, Kolkata, was focussed on some new nano-size effects in glass ceramics. Prof. S V Subramanyam, Vice President-General Secretary, MRSI and Dr S Banerjee, Director Materials Group, BARC and Chairman MRSI Mumbai Chapter gave brief accounts of the activities of MRSI parent body and MRSI Mumbai chapter, respectively. It was mentioned that Materials Research Society of India is an interdisciplinary professional body, dedicated to stimulate accelerated growth of indigenous research and development in the area of materials science and engineering and their applications. Dr G P Kothiyal, Secretary, Organising committee and MRSI Mumbai Chapter proposed the vote of thanks. This meeting provided a forum to the materials science community for sharing their knowledge and experience in recent developments and innovations and some emerging challenges in Materials Research. There were about 360 registered participants from various National Institutions/ Universities, Colleges and industrial houses including four from abroad. In addition to theme symposium a mini symposium on Ion beam processing of materials was also organized which was indeed a special feature of this meeting. There were in all thirteen sessions including Inaugural and Concluding Sessions in this three-day meeting. The scientific programme had lectures from various MRSI award winners for the year 2003. They included Distinguished Materials scientist of the year award lecture, Distinguished Lectureship award lecture, ICSC-MRSI Honour and medal lectures. There were about 200 contributed papers which were grouped into four main

categories; Polymers (PPO), thin films, surfaces & interfaces(PTF), glasses and ceramics(PGC) and materials processing & characterization, electronic materials, magnetic materials, nano-materials, computer aided design of materials (PMC). All the posters were displayed for all the three days and discussed in two special sessions. Four best papers were also given certificates in the concluding session. Young researchers were encouraged by way of giving them travel support and local hospitality. As is customary, MRSI award winners were presented the medals/certificates in the annual general body meeting held on 11th Feb. 2003.

It is well known that materials scientists deal with structures and properties at different length scales. As far as polymers are concerned, three levels of structures, namely molecular structure, crystalline structure and mesoscopic morphology can be engineered by a variety of tools that materials scientists have in their hands. Among others, some interesting properties of polymers have led to the preparation of soft gels (acrylic) for soft contact lenses to ultrahigh strength fibres (aramide) for bullet proof vests; electrical insulators (cross linked polyethylene) to electrical conductors (doped polyaniline); chemical attack resistant (polyvinyl fluoride) to water soluble (polyacrylic acid) materials. Polymers may also exhibit some unique properties such as abrasion resistance (poly-urethanes), piezo-electricity (polyvinylidene fluoride) and biodegradability (polylactic acid). In the theme symposium on Novel Polymeric materials emphasis has been given to electro-optical properties, fuel cell, polymeric nano-composites, thermoplastics, ionomers, polyolefins materials, conducting polymers, polymers with embedded information, radiation processing of polymers etc.

The theme symposium had thirteen invited lectures from renowned experts in the area of polymers from India and abroad. The topics covered in the lectures dealt with a wide spectrum including electro-optical and electronic properties of polymers, high performance and engineering polymers, nano-composites, bio related polymers as well as issues pertaining to processing. Prof. Allen Windle of University of Cambridge, UK delivered a special evening lecture, on the topic entitled "Carbon nano-tubes under stress". Other leading scientists from abroad were Prof. F E Karasz of University of Massachusetts, Amherst, USA, Prof. L Korugic, of University of Massachusetts, Amherst, USA and Prof. M Tirrel of University of California, Santa Barbara, USA.

Ion beam processing of the materials has become very important in the recent years not only because they effect controlled surface and bulk modifications in different materials but also provide a good tool for synthesis and organization of nano-materials. Focussed Ion Beam (FIB) has been widely used for producing patterns and arrays of patterns on substrates down to about 50nm. Five eminent workers in the field discussed these aspects in the mini symposium.

The abstract cum programme book having about 350 pages included abstracts of Medal lectures, MRSI- Honour lectures and MRSI-ICSC award lectures. In addition, the abstracts of contributed poster papers covering latest work of material scientists in the country have also been included. There are two special articles from industries, dealing with small angle x-ray scattering techniques and applications of spray dryers. Participants were given compilations of highlights on Materials Research in BARC, and of IIT Bombay.

This meeting was preceded by the scientific meeting of Asia Pacific Academy of Materials (APAM) India Chapter on 10th February in Homi Bhabha Centre for Science Education (TIFR Unit), Mankhurd, which was attended by about fifty delegates.

Dr G P Kothiyal, Secretary
For and on behalf of the Organizing Committee

Pollution and Waste Management in Ceramic and Allied Industries (PWMCAI)-2003 : A Report

A national seminar on Pollution and Waste Management in Ceramic and Allied Industries (PWMCAI)- 2003 was organized by the department of Ceramic Engineering, National Institute of Technology- Rourkela, Orissa on 14-15th February, 2003. The seminar was sponsored by DST, CSIR, ICTE, NALCO and TRL-Orissa. The inaugural session consisted of keynote address by the chief guest, Dr. H.S. Maiti, Director, CGCRI Kolkata, on "Sources of Pollution and Waste Utilization in Ceramic Industries" and Prof. A. Paul Memorial lecture by the guest of honour, Prof. J. Mukherji, Hony. Secretary (Indian Section), Society for Glass Technology, U.K. on "Fixation of nuclear waste in glass for ultimate disposal". There were 5 invited talks on pollution and waste management. In addition, in 3 technical sessions, a total of 16 papers were presented by delegates. In the end, Dr. S. Adak, Convenor & Head of Dept. of Ceramic Engineering concluded the proceedings.

Prashant Kumar Sahu
National Institute of Technology- Rourkela

New Members

Enrolled between January 1 and March 31, 2003

Life Members

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Inauguration of C-Met Thrissur Building & C-Met Annual Foundation Day

Centre for Materials for Electronics Technology (C-Met), a scientific society under Ministry of Communication and Information Technology, has three laboratories situated at Pune, Hyderabad and Thrissur with headquarters co-located at Pune. The C-Met laboratory building at Thrissur was inaugurated by Shri. Su. Thirunavukkarasar, Hon'ble MOS (C&IT) on Saturday the 8th March 2003. Shri. Therambil Ramakrishnan, Hon'ble Member of Kerala Legislative Assembly, presided over the inaugural function. After the inaugural function, the third C-Met Annual foundation day was celebrated at which Prof. D Chakravorty, President, MRSI, delivered the foundation day lecture on “*Glass-Man Friday of Materials Research*”. C-Met is a patron member of our society.

CALENDAR OF EVENTS, APR-DEC 2003

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>

April 18-20, 2003, National Symposium on Advanced Electronic Materials & Information Technology, Dr. P K Bajpai, Convenor, NSAEM-2003, School of Pure & Applied Physics, GGU, Bilaspur, C G 495 009, Tel: 07752-272749/272724, Email: bajpai_pk@yahoo.com

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

May 7, 2003, National Seminar and Interactive Session on Degradable Polymers for Consumer Applications, Dr. M Jayabalan, Convenor, Polymer Division, BMT Wing, Sree Chitra Tirunal Institute for Medical Science & Technology, Thiruvananthapuram 695 012, Tel: 0471-2340801, Fax: 0471-2341814, email: muthujayabalan@rediffmail.com / Jaybalan@sctimst.ker.nic.in

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>

June 2-6, 2003, Tenth APAM Seminar and Third Conference ‘Materials of Siberia’ ‘Nanoscience & Technology’, Dr. Marina Kosinova, Institute of Inorganic Chemistry SB RAS, 3, Acad, Lavrentjev Pr., Novosibirsk-90, 630090, Russia, Fax: 7 3832 34 4489, Email: marina@che.nsk.su

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

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

October 8-13, 2003, IUMRS-ICAM 2003, Prof. Atsushi SUZUKI / Ms. Rumino MURO / Ms. Kyoko YOSHIMI, C/o Prof. A Suzuki's Laboratory, Faculty of Environment and Information Sciences & Dept. of Materials Science, Yokohama National University, 79-7, Tokiwadai, Hodogaya-ku, Yokohama 240-8501, Japan, Tel: +81-45-339-4305, Email: icam2003@ynu.ac.jp, website: <http://www.mrs-j.org/ICAM2003>

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

December 17-19, 2003, The Second Asian Particle Technology Symposium (APT 2003), The Secretariat APT-2003, Department of Chemical & Process Engineering, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor, Malaysia, Email: apt@vlsi.eng.ukm.my, Web: <http://www.eng.ukm.my/apt>

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”

AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 14 years of activity and in this update, the following information is given.

- Membership status
- Awards & Honours
- Publications
- International Cooperation
- Honorary Members
- Students' Projects
- Annual General Meetings

Membership Status

MRSI has the following classes of membership. The status as on March 31, 2003 is:

Life Members	:	1633
Annual Members	:	53
Honorary members	:	143
Patron members	:	61

Awards and Honours

Distinguished Materials Scientist of the Year Award:

DISTINGUISHED MATERIAL SCIENTIST OF THE YEAR AWARD is a prestigious MRSI award. The chosen scientist delivers special Honour Lecture on the occasion of the MRSI Annual Meeting.

Prof. S Ramaseshan	(1990)
Prof. E C Subba Rao	(1991)
Prof. T R Anantharaman	(1992)
Prof. C N R Rao	(1993)
Dr. M S Valiathan	(1994)
Prof. K L Chopra	(1995)
Dr. R Chidambaram	(1996)
Dr. Paul Ratnasamy	(1997)
Dr. P Rama Rao	(1998)
Prof C V Sundaram	(1999)
Dr. R A Mashelkar	(2000)
Prof. S Ranganathan	(2001)
Prof. K J Rao	(2002)
Prof. A K Barua	(2003)

MRSI-ICSC Superconductivity and Materials Science Award (Senior)

Prof. CNR Rao, (JNCASR, B'lore)	(1993)
Dr. P Rama Rao, (UOH, Hyderabad)	(1996)
Dr. S K Joshi, (NPL, New Delhi)	(1999)
Dr. M S Valiathan (MAHE, Manipal)	(2002)

This prize is awarded once in three years.

MRSI Distinguished Lecturership

Dr. M S Valiathan (SCTIMST, TRV)	(1993-1994)
Prof. S Ranganathan (IISc, Bangalore)	(1995-1996)
Prof. G V Subba Rao (CECRI, Karaikudi)	(1997-1998)
Dr. P Ramachandra Rao (NML, Jamshedpur)	(1999-2000)
Dr. P Rodriguez (IGCAR, Kalpakkam)	(2001-2002)
Dr. S Sivaram (NCL, Pune)	(2003-2004)

MRSI-ICSC Super Conductivity and Materials Science Annual Prize Winners : These prizes are awarded annually.

Dr. A V Narlikar, NPL, New Delhi	(1991)
Prof. G V Subba Rao, IIT, Madras	(1991)
Prof. S B Ogale, UOP, Pune	(1992)
Prof. J Gopalakrishnan, IISc, Bangalore	(1992)
Dr. P Chaddah, CAT, Indore	(1993)
Dr. A K Gupta, NPL, New Delhi	(1993)
Prof. S K Malik, TIFR, Mumbai	(1994)
Dr. P Ganguly, NCL, Pune	(1994)
Prof. L C Gupta, TIFR, Mumbai	(1995)
Dr. D Chakravorty, IACS, Kolkata	(1995)
Prof. K J Rao, IISc, Bangalore	(1996)
Dr. J V Yakhmi, BARC, Mumbai	(1996)
Prof. A K Barua, IACS, Kolkata	(1997)
Dr. Anil Kakodkar, BARC, Mumbai	(1997)
Dr. P Rodriguez, IGCAR, Kalpakkam	(1998)
Prof. R Vijayaraghavan, TIFR, Bombay	(1998)
Dr. Y R Mahajan, ARC-I, Hyderabad	(1999)
Dr. T S Radhakrishnan, IGCAR, Kalpakkam	(1999)
Dr. N V Madhusudana, RRI, Bangalore	(2000)
Dr. C K Gupta, BARC, Mumbai	(2000)
Dr. S K Sikka, BARC, Mumbai	(2001)
Dr. D Banerjee, DMRL, Hyderabad	(2001)
Prof. P Ramachandra Rao	(2002)
Prof. A K Raychaudhuri	(2002)
Dr. S Banerjee, BARC, Mumbai	(2003)
Dr. B M Arora, TIFR, Mumbai	(2003)

MRSI Medal Lecture Awardees (1990-2003)

(year in the bracket indicates the year of award)

MRSI Medals are awarded in recognition of excellence in a particular field of expertise within the domain of materials and processes. Recipients of these medals are invited to deliver

lectures at the MRSI Annual Meeting. So far 216 Medals have been awarded.

- Agarawal S C**, IIT, Kanpur (1995)
Ajay Sood, IISc, Bangalore (2000)
Amarnath Sen, CGCRI, Kolkata (2003)
Ananthakrishna G, IISc, Bangalore (1992)
Arora B M, TIFR, Mumbai (1996)
Arun Umarji, IISc, Bangalore (1996)
Ashok Misra, IIT, Mumbai (2002)
Atul Choksi H, IISc, Bangalore (2000)
Bahadur D, IIT, Mumbai (1996)
Bahl O P, NPL, New Delhi (1991)
Balakrishnan K, CECRI, Karaikudi (1994)
Balasubramanian N, Everest Ltd., Bangalore (1992)
Balasubramanian R, IIT Kanpur (1999)
Baldev Raj, IGCAR, Kalpakkam (1992)
Bandyopadhyaya T, CGCRI, Kolkata (1998)
Banerjee D, DMRL, Hyderabad (1991)
Banerjee G, CGCRI, Kolkata (1997)
Banerjee M K, BEC, Bengal (1999)
Banerjee S, BARC, Mumbai (1990)
Banerjee S, NML, Jamshedpur (1992)
Barua A K, IACS, Kolkata (1991)
Bhanu Sankara Rao K, IGCAR, Kalpakkam (1997)
Bharathi A, IGCAR, Kalpakkam (2003)
Bhat H L, IISc, Bangalore (1994)
Bhat S V, IISc, Bangalore (1994)
Bhattacharya D, IIT, Kharagpur (1994)
Bhattacharya R, NPL, New Delhi (2000)
Bhupendra N Dev, Institute of Physics,
Bhuvaneshwar G S, SCTIMST, Trivandrum (2002)
Birla N C, DMRL, Hyderabad (1990)
Biswas S K, IISc, Bangalore (1994)
Bose D N, IIT, Kharagpur (1991)
Chakravorty D, IACS, Kolkata (1992)
Chandrasekharan V, DMRL, Hyderabad (1990)
Chaplot S L, BARC, Mumbai (2002)
Chatterjee A K, ACC Ltd, Thane (1993)
Chattopadhyay K, IISc, Bangalore (1990)
Chintamani, NFC, Hyderabad (2001)
Damodara Das V, IIT, Madras (2002)
Damodaran A D, RRL, Thiruvananthapuram (1992)
Das B K, NPL, New Delhi (1992)
Das G P, BARC, Mumbai (2000)
Date S K, NCL, Pune (1993)
Devang V Khakhar, IIT, Mumbai (2003)
Devendra Kumar, BHU, Varanasi (2002)
Dey G K, BARC, Mumbai (2001)
Ganguli D, CGCRI, Kolkata (1993)
Ganguly C, BARC, Mumbai (1993)
Ganguly P, NCL, Pune (1992)
Garg S P, BARC, Mumbai (1992)
Ghosh A, IACS, Kolkata (2001)
Ghosh K S, TISCO, Jamshedpur (1998)
Ghosh R N, NML, Jamshedpur (1994)
Godwal B K, BARC, Mumbai (1997)
Gopalakrishnan J, IISc, Bangalore (1991)
Govindaraj A, SSCU, IISc, Bangalore (2001)
Goyal P S, BARC, Mumbai (1998)
Grover A K, TIFR, Mumbai (1996)
Gupta A K, NPL, New Delhi (1995)
Gupta C K, BARC, Mumbai (1991)
Gupta S C, BARC, Mumbai (2000)
Gurnam Singh, CAT, Indore (2001)
Guru Row T N, IISc., Bangalore (1997)
Hariharan Y, IGCAR, Kalpakkam (2000)
Hegde M S, IISc, Bangalore (1994)
Indira Rajgopal, NAL, Bangalore (1994)
Jacob K T, IISc, Bangalore (1992)
Jayabalan M, SCTIMST, Thiruvananthapuram (2001)
Jayakrishna A, SCTIMST, Thiruvananthapuram (1997)
Jha A K, RRL, Bhopal (1998)
Jyothindra Kumar K, Govt. Dental College,
Thiruvananthapuram (2003)
Kaul S N, Central University, Hyderabad (1998)
Kothiyal G P, BARC, Mumbai (2003)
Krishan Lal, NPL, New Delhi (1993)
Krishnadas Nair C G, HAL, Bangalore (1992)
Krishnamurthy V N, VSSC,
Thiruvananthapuram (1997)
Krupanidhi S B, IISc., Bangalore (1997)
Kulkarni G U, JNCASR, Bangalore (1999)
Kumar A N, IIT, Delhi (2002)
Kutty T R N, IISc, Bangalore (1995)
Kutumba Rao V V P, BHU, Varanasi (1994)
Lakkad C, IIT, Mumbai (1990)
Madhav Rao L, BARC, Mumbai (1993)
Mahajan Y R, DMRL, Hyderabad (1992)
Maiti H S, CGCRI, Kolkata (1991)
Maitra A N, Univ. of Delhi, Delhi (2003)
Majumdar S D, ACC, Thane (2002)
Malakondaiah G, DMRL, Hyderabad (1998)
Malhotra L K, IIT, New Delhi (1995)
Mandal B M, IACS, Kolkata (1997)
Manna I, IIT, Kharagpur (2000)
Mannan S L, IGCAR, Kalpakkam (1993)
Manocha L M, S.P.University, Vallabh
Vidyanagar (1995)
Manohar C, BARC, Mumbai (1994)
Manu Multani, TIFR, Mumbai (1990)
Mathews C K, IGCAR, Kalpakkam (1993)
Mitra R, IIT, Kharagpur (2003)

Mitra S K, Tata Steel, Jamshedpur (1994)
Mohan S, IISc, Bangalore (1992)
Mohanty O N, TISCO, Jamshedpur (1995)
Mukherjee T K, BARC, Mumbai (1995)
Mukherji J, CGCRI, Kolkata (1991)
Murali Sastry, NCL, Pune (2003)
Muralidharan P, SSPL, Delhi (1990)
Nadkarni V M, NCL, Pune (1991)
Nagarajan R, TIFR, Mumbai (2001)
Nagarajan T, Madras University, Chennai (1996)
Nair N G, IIT, Chennai (1997)
Narayan K S, JNCASR, Bangalore (1997)
Narayanasamy A, Madras University, Chennai (2003)
Natarajan K A, IISc, Bangalore (1993)
Natarajan S, JNCASR, Bangalore (1999)
Navin Chand, RRL, Bhopal (1999)
Neeraj Khare, NPL, Delhi (1998)
Ogale S B, University of Poona, Pune (1990)
Ojha S N, BHU, Varanasi (2000)
Om Prakash, BHU, Varanasi (1998)
Pabi S K, IIT, Kharagpur (2001)
Padmanabhan K A, IIT, Madras (1990)
Pal A K, IACS, Kolkata (1994)
Pandey D, BHU, Varanasi (1990)
Pandey M C, DMRL, Hyderabad (1997)
Patil K C, IISc, Bangalore (1993)
Pawar S H, Shivaji University, Kolhapur (2002)
Pillai C K S, RRL, Thiruvananthapuram (2003)
Pinto R, TIFR, Mumbai (1997)
Prabha D Nair, SCTIMST, Thiruvananthapuram (1998)
Prabha R Chatterjee, ICT, Hyderabad (1998)
Prabhakar O, IIT, Chennai (1993)
Pradeep T, IIT, Madras (2002)
Pradip, TRDDC, Pune (1992)
Pramanik P, IIT, Kharagpur (1992)
Pran Kishan, SSPL, Delhi (1995)
Prasad G J, BARC, Mumbai (2001)
Pushpa Bajaj, New Delhi (1995)
Radhakrishnan T S, IGCAR, Kalpakkam (1994)
Raghunathan V S, IGCAR, Kalpakkam (1995)
Rajagopalan S R, NAL, Bangalore (1992)
Rajasekharan Pillai V N, M G University, Kottayam (1997)
Rajasekharan T, DMRL, Hyderabad (1999)
Raju A R, JNCASR, Bangalore (2000)
Rama Rao K V S, IIT, Chennai (1993)
Ramakrishnan N, DMRL, Hyderabad (2001)
Ramakrishnan S, IISc, Bangalore (2002)
Ramasami T, CLRI, Chennai (2001)
Ramasamy P, Anna Univ. Chennai (1992)
Ramesh T G, NAL, Bangalore (2000)
Rameshwar Jha, TISCO, Jamshedpur (1997)
Ranganathan S, IISc, Bangalore (1991)
Ratan Lal, NPL, New Delhi (2002)
Ray S K, IGCAR, Kalpakkam (1999)
Raychaudhuri A K, IISc, Bangalore (1996)
Rodriguez P, IGCAR, Kalpakkam (1991)
Rohini Devi G, DRDL, Hyderabad (1994)
Sadashiva B K, RRI, Bangalore (1991)
Sampath Kumar E V, TIFR, Mumbai (1996)
Sanak Mishra, SAIL (R & D) Ranchi (1993)
Santanu Bhattacharya, IISc, Bangalore (1999)
Sanyal M K, SINP, Kolkata (2000)
Sarkar B K, CGCRI, Kolkata (1995)
Sarma D D, IISc, Bangalore (1990)
Sastry G V S, BHU, Varanasi (1999)
Satyanarayana K G, RRL, Thiruvananthapuram (2001)
Sekhon S S, Guru Nanak Dev Univ, Amritsar (2003)
Sengupta S P, IACS, Kolkata (1995)
Sequeria A H, BARC, Mumbai (1991)
Shamsuddin, BHU, Varanasi (1995)
Shanker Ram, IIT, Kharagpur (2003)
Sharma B P, BARC, Mumbai (1997)
Sharma C P, SCTIMST, Thiruvananthapuram (1994)
Sharma R G, NPL, New Delhi (1996)
Sharma S M, BARC, Mumbai (1999)
Sheela K Ramasesha, NAL, Bangalore (2001)
Shivashankar S A, IISc, Bangalore (1996)
Shobhana Narasimhan, JNCASR, Bangalore (2002)
Shrikant V Joshi, ARC-I, Hyderabad (2002)
Shukla A K, IISc, Bangalore (1993)
Sikka S K, BARC, Mumbai (1991)
Singh A K, NAL, Bangalore (1991)
Singh R P, IIT, Kharagpur (1996)
Sivakumar R, SCTIMST, Thiruvananthapuram (1992)
Sivaram S, NCL, Pune (1990)
Sreedhar A K, SSPL, Delhi (1991)
Sreedharan O M, IGCAR, Thiruvananthapuram (2002)
Sreenivas K, SCTIMST, Thiruvananthapuram (1999)
Sridhar M K, NAL, Bangalore (1990)
Srinivasan R, IIT, Madras (1991)
Subba Rao G V, IIT, Madras (1990)
Subbanna G N, MRC, IISc, Bangalore (2003)
Subhash Chandra, NPL, Pune (1996)
Subramanian P N, VSSC, Trivandrum (2002)
Subramanyam R B, DMRL, Hyderabad (1993)
Subramanyam S V, IISc, Bangalore (1990)
Subrata Ray, Univ. of Roorkee, Roorkee (1995)
Sudhir S. Kulkarni, NCL, Pune (1994)

Sundar C S, IGCAR, Kalpakkam (1994)
Sundararajan G, DMRL, Hyderabad (1992)
Surappa M K, IISc, Bangalore (1997)
Suri A K, BARC, Mumbai (2000)
Suryanarayana S V, OU, Hyderabad (1994)
Swati Ray, IACS, Kolkata (1999)
Thyagarajan R, SSPL, Delhi (1992)
Upadhyaya G S, IIT, Kanpur (1993)
Vankar V D, IIT, New Delhi (1997)
Varadaraju U V, IIT, Chennai (1996)
Varaprasad A M, DMSRDE, Kanpur (1990)
Varma K B R, IISc, Bangalore (1998)
Vasudeva Rao P R, IGCAR, Kalpakkam (1998)
Venkateswara Rao A, Shivaji University, Kolhapur (1999)
Vijay Kumar, IGCAR, Kalpakkam (1996)
Vijayamohanan K, NCL, Pune (1996)
Vikram Jayaram, IISc, Bangalore (1996)
Vikram Kumar, SSPL, Delhi (1992)
Viswanathan B, IGCAR, Kalpakkam (2001)
Viswanathan B, IIT, Chennai (1998)
Wadhawan V K, CAT, Indore (2000)

BEST PAPER PRIZE (For publication in the Bulletin of Materials Science)

1990:

“A cold model study of mass transfer in Q-BOP” by Prof. S L Malhotra, Dr. S Singh and Dr. N Prasad, BHU, Varanasi, Bulletin of Materials Science, Vol. 12 (1989), p 369

1991:

“Thermodynamic properties of Pt5La, Pt5Pr, Pt5Tb and Pt5T, intermetallics” by Prof. K T Jacob, IISc, Bangalore and Prof. Y Waseda, Tohoku University, Sendai, Japan, Bulletin of Materials Science, Vol. 13, (1990), p 235

1992:

“Ordered structures in ternary hcp alloys” by Prof. S Lele and Dr. A K Singh, BHU, Varanasi, Bulletin of Materials Science, Vol. 14 (1991), p 11

1993:

“Dynamic Fracture Mechanics-A scientific tool for the prevention of catastrophic Failure” by Dr. R Krishna Kumar, Dept. of Mechanical Engineering, Indian Institute of Technology, Madras, Bulletin of Materials Science, Vol. 15 (1992), p 55

1994:

“EXAFS: Determination of Cation Distribution in Spinel” by Dr. G M Bhongale, Dr. D K Kulkarni, Dept. of Physics, Institute of Science, Nagpur and Dr. V B Sapre, Dept. of Physics,

Nagpur University, Nagpur, Bulletin of Materials Science, Vol. 16 (1993), p. 243

1995:

“The role of additives in a complex lithium silicate glass ceramic” by Prof. R N Das, Prof. B K Chandrashekar, Ceramic Technological Institute, Bharat Heavy Electrical Ltd, Bangalore & Prof. K J Rao, Materials Research Centre, Indian Institute of Science, Bangalore, Bulletin of Materials Science, Vol. 17 (1994), p 59

1996: No prize was given in 1996.

1997:

“Crystallization of glass in Fireclay Refractories’ by Dr. S P Choudhury and Dr. T Dutta, CGCRI, Kolkata, Part II and Part III, Bulletin of Materials Science, Vol. 19 (1996), p 373

1998:

‘A New inexpensive method for the preparation of acicular precursors for magnetic recording media’ by MR Anantharaman, K V Joseph and H V Keer, Dept. of chemistry, IIT, Mumbai, Bulletin of Materials Science, Vol. 20, (1997), p 975.

1999:

“Short term tissue response to carbon fibre : A preliminary *in vitro* and *in vivo* study’ by Mira Mohanty, T V Kumary, Division of Pathophysiology, SCTIMST, Thiruvananthapuram, Arthur V Lal, Vivarium & Materials Group, SCTIMST, Thiruvananthapuram and R Sivakumar, Biomedical Technology Wing, SCTIMST, Thiruvananthapura, Bulletin of Materials Science, Vol. 21 (6) (1998), p 439.

2000:

‘Transmission Electron Microscopy and X-ray diffraction studies of Quantum Wells’, by D V Sridhara Rao, L Muraleedharan, Electron Microscopy Group, DMRL, Hyderabad, G K Dey, Materials Science Division, BARC, Mumbai, S K Halder, G Bhagavannarayan, Materials Characterization Division, NPL, New Delhi, P Banerji, D Pal and D N Bose, Advanced Technology Centre, IIT, Kharagpur, Bulletin of Materials Science, Vol 22, No. 6, October (1999), pp. 947.

2001:

‘Helium implanted AlHf as studied by ¹⁸¹Ta TDPAC’ by R Govindaraj, Materials Science Division, IGCAR, Kalpakkam, K P Gopinathan, Dept. of Physics, Cochin University of Science & Technology, Cochin and B Viswanathan, Materials Science Division, IGCAR, Kalpakkam, Bulletin of Materials Science, Vol. 23, No. 3, June (2000), p 201

2002:

‘Non Equilibrium Solidification of undercooled droplets during Atomization Process’ by Prasanth Shukla, R K Mandal and S N

Ojha, Centre for Advanced Study, Dept. of Metallurgical Engineering, Banaras Hindu University, Varanasi 221 005, Bulletin of Materials Science, Vol 24 (2001) p. 547.

2003:

'Preliminary *in vitro* and *in vivo* characterizations of a sol-gel derived bioactive glass-ceramic system' by S Abiraman, H K Varma, T V Kumari, P R Umashankar and Annie John, Biomedical Technology Wing, Sree Chitra Tirunal Institute of Medical Sciences & Technology, Poojapura, Thiruvananthapuram 695 012, Bulletin of Materials Science, Vol 25 (5) (2002), p 419-429.

BEST POSTER PRIZE (2003)

MRSI also awards prizes for the Best Posters presented during the AGM.

"High-Temperature adhesives based on alder-ene thermoset" by C Gouri, C P Reghunadhan, R Ramaswamy and K N Ninan, Vikram Sarabhai Space Centre, Thiruvananthapuram 695 012, 14th AGM, Mumbai, 2003.

"A simulation Study of Atomic Resolution X-ray Holography" by Yogesh Kashyap, P S Sarkar, R S Rao, Amar Sinha and B K Godwal, Bhabha Atomic Research Centre, Mumbai 400 085, 14th AGM, Mumbai, 2003.

"Al₂O₃ stabilized t-ZrO₂ in nanoparticles with transparent amorphous polymeric gel by hydrolysis in aqueous solution" by A Mondal and S Ram, Indian Institute of Technology, Kharagpur 721 302, 14th AGM, Mumbai, 2003.

"Crystallization of cobalt-hexacyanoferrate under the langmuir monolayer" by Sipra Choudhury, G K Dey and J V Yakhmi, Bhabha Atomic Research Centre, Mumbai 400 085, 14th AGM, Mumbai, 2003.

PUBLICATIONS

MRSI co-sponsors the publication of Bulletin of Materials Science (BMS) published by the Indian Academy of Sciences. In addition, several special issues of BMS have been brought out. The BMS published 675 pages of scientific articles in 2002. The BMS is available on the internet (<http://www.ias.ac.in/materisci/>). In January 2003, the BMS published the proceedings of the First Conference on Asian Consortium for Computational Materials Science (ACCMS-1), pages 1-205, Vol. 26 (1) January 2003. The guest editors of this issue were Dr. G P Das, Dr. UV Waghmare and Prof. S Ranganathan.

MRSI is now bringing out the MRSI Newsletter regularly which includes the 'Calendar of Events' where the forthcoming conferences/symposia/workshops related to Materials Science

are listed along with the name and address of the contact persons. The MRSI Newsletter is being edited by Prof. H L Bhat and Dr. R V Krishnan.

TIFACLINE group brings out a quarterly Newsletter on Non-Ferrous Materials as a Joint Publication of MRSI, TIFAC & DMRL.

The MRSI has also brought out its updated version of membership directory in 2001. It has an interactive website (www.igcar.ernet.in/mrsi) for interactions amongst its members interested in science and technology of materials.

MRSI has now brought out an edited volume of the '**Materials Research-Current Scenario and Future Projections**' with special emphasis on the Indian scenario. This book was released recently. It has been published by M/s Allied Publishers, New Delhi. Dr. R Chidambaram and Dr. S Banerjee have edited this volume.

INTERNATIONAL COOPERATION

MRSI is a founding Adhering Body of the International Union of Materials Research Societies (IUMRS).

IUMRS together with C-MRS, MRS-INDIA, MRS-JAPAN, MRS-KOREA and MRS-TAIWAN reached an important decision in October 1992 to launch a new series of MRS Conference in Asia. The series is titled "The IUMRS International Conference in Asia" or IUMRS-ICA. The first conference of this series, IUMRS-ICA 1993, was organized by C-MRS. Later it was organized by MRS-TAIWAN in 1994, MRS-Korea in 1995, MRS-Japan in 1997, MRS India in 1998, MRS China in 1999, MRS Hong Kong in 2000. The IUMRS-ICAM-2002 was held at Cancun, Mexico during the year 2002. The IUMRS-ICAM 2003 will be held in Japan during October 10-13, 2003. The IUMRS-ICEM-2003 will be held at China during June 10-14, 2003. The IUMRS-ICA 2003 and ICMAT 2003 will be held at Singapore during June 29-July 4, 2003.

The hosting of IUMRS-ICA 98 meeting at Bangalore during October 13-16, 1998 was a major activity of MRSI. The Conference had 22 Theme Symposia and was held in 7 parallel sessions. More than 150 invited talks were delivered and nearly 700 contributed papers were presented. As already mentioned the proceedings of the Conference, consisting of the invited talks has been published as a special issue of Bulletin of Materials Science. This volume has been very well received by all.

MRSI is a founding member of Asia Pacific Academy of Materials (APAM). It has continued its strong links with APAM. Prof. CNR Rao is its Founder President. Currently Prof. Kuznetsov is its President. Prof. S V Subramanyam, Hon-Secretary of MRSI, has been elected as the Secretary-General of APAM.

APAM has members from India, Russia, Japan, China, Uzbekistan, Korea, Taiwan and Australia. The APAM India Chapter holds its annual meeting in conjunction with the AGM of MRSI. APAM-India Chapter has about 50 members. There is significant contingent of materials scientists from India at the MRS-USA meetings held at Boston each year

HONORARY MEMBERS

(elected during the period 1990-2003)

(year in the bracket indicates the year of election)

Alario-Franco M A, Ciudad Universitaria, Spain (1992)

Aleksandrov Kirill S, L V Kirensky Institute of Physics, Russia (1992)

Amelinckx S, RUCA, Belgium (1991)

Andrade Joseph D, USA (1996)

Angell C A, University of Arizona, USA (1999)

Armstrong R W, University of Maryland, USA (1995)

Arsenault R J, University of Maryland at College Park, USA (1995)

Ashby M F, FRS, Cambridge University, UK (1990)

Baglin John E E, IBM Almaden Research Centre USA (1990)

Bentini G C, CNR-Via GOBETTI, Italy (1992)

Blinc R, J. Stefan Institute, Slovenia (1992)

Bonfield William, University of Cambridge, UK (1993)

Brandon D G, Lehigh University, USA (1993)

Cahn John W, National Institute of Standards and Technology, USA (1993)

Cahn R W, FRS, University of Cambridge, UK (1990)

Cantor Brain, University of Oxford, UK (1996)

Catlow C R A, The Royal Institution, UK (1996)

Chakravorthy B K, CNRS Lepes, France (1991)

Chang R P H, Northwestern University, USA (1990)

Chaudhari Praveen, Watson Research Centre of Physical Sciences, USA (1990)

Cheetham A K, University of California, USA (1994)

Chon Min Che, South Korea (1992)

Chowdari BVR, National University of Singapore, Singapore (2001)

Clearfield A, Texas A & M University, USA (1996)

Cottrell Alan, F.R.S, University of Cambridge, UK (1992)

Cross Leslie Eric, The Pennsylvania State University, USA (1994)

Cyrot-Lackman Francis, IEPES-CNRSC, France (1991)

Day P, FRS, The Royal University of Great Britain, UK (1994)

Dayananda M A, Purdue University, USA (1997)

Disalvo F J, Cornell University, USA (1996)

Dongsheng Yan, The Chinese Academy of Sciences, China (1990)

Doyama M, Teikyo University of Science & Technology, Japan (1990)

Dresselhaus Mildred S, Massachusetts Institute of Technology, USA (1991)

Edwards P P, The University of Birmingham, UK (1995)

Embury J D, McMaster University, Canada (1993)

Esaki Leo, Shibaura Institute of Technology, Japan (1995)

Etourneau J, Institut de Chimie de la Matiere Condensee de, France (1994)

Ferey Gerard, University of Versailles, France (1998)

Fortes M A, Instituto Superior Tecnico, Portugal (1994)

Frolov K V, Russian Academy of Sciences, Russia (1990)

Fujihara K, Yokohama National University, Japan (1996)

Fujshima A, University of Tokyo, Japan (1995)

Gennes P G De, France (1996)

Glasow Peter A, Siemens AG, Germany (1994)

Gleiter H, Institute of Nanotechnology Research Center, Germany (1994)

Gonzalez Calbet, Universidad Complutense, Spain (1997)

Goodenough John B, University of Texas at Austin, USA (1990)

Gotos Harry C, Massachusetts Institute of Technology, USA (1991)

Granquist C G, Uppsala Universitat, Sweden (2001)

Greenblatt Martha, The State University of New Jersey, USA (1995)

Greenwood G W, University of Sheffield, UK (1997)

Greer A L, University of Cambridge, UK (2002)

Gschneidner K A, Iowa State University, USA (1993)

Hagenmuller P, University of Bordeaux, France (1990)

Heeger A J, University of California, USA (1998)

Hirsch Peter, FRS, Oxford University, UK (1990)

Hiroaki Yanagida, University of Tokyo, Japan (1991)

Honeycombe Robert, Cambridge University, UK (1992)

Honig Jurgen M, Purdue University, USA (1990)

Ilschner R Bernhard, Swiss Federal Institute of Technology, Switzerland (1990)

Inokuchi H, National Space Development Agency of Japan, Japan (1999)

Inoue Akihisa, Tohoku University, Japan (2001)

Interante L V, Rensselaer Polytechnic, USA (1994)

Jagdish Narayan, North Carolina State University, USA (2000)

Jain S C, IMEC, Belgium (2001)

Jansen Martin, Max-Planck Institut Fur Festkoerperforschung, Germany (2002)

Jayaraman A, Carnegie Institution of Washington, USA (1990)

Kaldis E, Laborotium Fur Festkorperphysic, Switzerland (1992)

- Karasz Frank**, University of Massachusetts, USA (2003)
- Kawazoe Yoshiyuki**, Tohoku University, Japan (2002)
- Kenneth H Jack, FRS**, Cookson Group PLC, UK (1991)
- Khabibullaev P K**, Uzbek Academy of Sciences, Uzbekistan (1992)
- Kitazawa Koichi**, University of Tokyo, Japan (1991)
- Kiyotaka Wasa**, Japan (1991)
- Knut Urban**, am Institut fur Festkorperforschung, Germany (2000)
- Koinuma H**, Tokyo Institute of Technology, Japan (1996)
- Kolster B H**, Netherlands (1992)
- Kroening M**, Frankfurt Institute of Non-Destructive Testing, Germany (2000)
- Kroto H W**, University of Sussex, UK (1992)
- Kuo K H**, Chinese Academy of Sciences, China (1991)
- Kuznetsov F A**, Institute of Inorganic Chemistry, Russia (1990)
- Li Heng-De**, Tsinghua University, China (1990)
- Lange Fred**, University of California, USA (2000)
- Livage J**, Universite Pierre et Marie Curie, France (1995)
- Luecke Kurt**, Netherlands (1993)
- Mackay A L**, University of London, UK (1993)
- Mahajan Subash**, Carnegie Mellon University, USA (1991)
- Margolin Harold**, Brooklyn Polytechnic University, USA (1995)
- Masahiro Yoshiumra**, Tokyo Institute of Technology, Japan (2003)
- Masumoto T**, The Research Institute for Electric and Magnetic Materials, Japan (1995)
- McHenry Michael E**, Carnegie Mellon University, USA (1998)
- Merzhanov A G**, Institute of Structure Macrokinetics & Materials Science, Russia (1997)
- Metzner Arthur B**, University of Delaware, USA (1991)
- Mordike Barry L**, University of Malta, Europe (1991)
- Mukherjee Amiya**, University of California, USA (1997)
- Narayanamurthy V**, Harvard University, USA (1995)
- Newnham R E**, The Pennsylvania State University, USA (1993)
- Niihara Koichi**, Osaka University, Japan (2001)
- Nishijawa J I**, Semiconductor Research Institute, Japan (1992)
- Ossipyan Yu A**, Russian Academy of Sciences, Russia (1991)
- Parrinello M**, Max-Planck-Institut fur Festkorperforschung, Germany (1999)
- Patel C K N**, Pranalytical Inc, USA (1991)
- Pouchard M**, Institut Universitaire de, France (1994)
- Ramdas A K**, Purdue University, USA (1990)
- Rao Tummala R**, Georgia Institute of Technology, USA (1992)
- Rath Bhakta B**, Naval Research Laboratory, USA (1990)
- Raveau Benard**, University De Caen, France (1991)
- Roberts M W**, Cardiff University, UK (1994)
- Roesky H W**, Universitat Gottingen, Germany (1997)
- Rousset A**, Universite Paul Sabatier, France (1993)
- Roy Rustum**, The Pennsylvania State University, USA (1990)
- Ruehle M**, Max-Plank Institut fur Metallforschung, Germany (1995)
- Sellars C M**, The University of Sheffield, UK (1994)
- Shechtman D**, Technion, Israel (1997)
- Shichang Zou**, Chinese Academy of Sciences, China (1992)
- Siegel R W**, Rensselaer Polytechnic Institute, USA (1992)
- Siffert Paul**, University of Strasbourg, France (1990)
- Sinha Sunil K**, Argonne National Laboratory, USA (2001)
- Sleight A W**, Oregon State University, USA (1995)
- Smalley R E**, Rice University, USA (1992)
- Somasundaran P**, Columbia University, USA (1991)
- Somiya Shigeyuki**, Nishi Tokyo University, Japan (1990)
- Subramanian M A**, Dupont Company, USA (2002)
- Subra Suresh**, MIT, USA (1996)
- Tanaka K**, Joint Research Center for Atom Technology (JRCAT), Japan (1993)
- Taplin D M R**, University of Plymouth, UK (1993)
- Tarascon J M**, Universitat Picardie, France (1996)
- Thomas G**, University of California, USA (1994)
- Thomas J M**, The Royal Institute of Great Britain, UK (1993)
- Tokura Y**, University of Tokyo, Japan (1997)
- Tsechiang Hsiao**, Northeast University, China (1995)
- Underhill A E**, University College of North Wales, UK (1995)
- Vallet Regi**, Universidad Complutense De Madrid, Spain (1997)
- Vijh Ashok K**, Institute De Recherche, d' Hydro-Quebec, Canada (1991)
- Vincenzini P**, National Research Council, Italy (1992)
- West A R**, The University of Sheffield, UK (1994)
- Whitesides George M**, Harvard University, USA (1999)
- Williams David F**, University of Liverpool, UK (1990)
- Williams J S**, Royal Melbourne Institute of Technology, Australia (1992)
- Windle Alan**, University of Cambridge, UK (2003)
- Wu Ping-Tien**, Asia Chemical Corporation, Taiwan (1992)
- Yacaman M J**, Institute De Fisica, Mexico (1992)
- Zhao Z X**, National Lab for Superconductivity, China (1991)

Students' Projects

MRSI is partially supporting upto 10 projects of students (B.Tech, M.Tech, ME, Ph.D) in the area of Materials Science & Technology under the supervision of a MRSI member. Proposals were invited to be submitted before **September 30th 2002**. MRSI received a large number of proposals of which the following have been accepted and granted support of Rs. 1000/- each.

Name of the student	Title of the Project	Project Supervisor/s
Rajakumari R & Sridevi R	Surface Engineering by Electro-Deposition	Dr. V S Muralidharan CECRI, Karaikudi
Abhishek S S	Thin Film Growth of SiC using a modified CVD process	Prof. S K Roy /Dr. C Jacob IIT, Kharagpur
Amit Samanta	Synthesis & Characterization of Ag : Al ₂ O	Prof. S K Roy /Dr. S Ram IIT, Kharagpur
Somnath Biswas	Development of a new series of Granular GMR Materials of self-stabilized CrO ₂ Nanoparticles	Prof. S Ram IIT, Kharagpur
Prashant Kumar Sahu	Synthesis & Dielectric Properties of Lanthanum Aluminate prepared through combined Gel precipitation	Dr. S C Mishra National Instt. of Technology Rourkela 769 008

Annual General Meetings

MRSI was launched at the foundation meeting held at DMRL, Hyderabad during February 9-10, 1989. Since then 14 AGMs were held as under.

Sl. No	AGM	Venue/Host Institution	Chairman/Convenor
1.	1990	National Chemical Laboratory, Pune	<i>R A Mashelkar</i>
2.	1991	National Physical Laboratory, New Delhi	<i>S K Joshi B K Das</i>
3.	1992	Indian Institute of Science, Bangalore	<i>Ranganathan S A M Umarji</i>
4.	1993	Regional Research Laboratory, Thiruvananthapuram	<i>A D Damodaran</i>
5.	1994	Research Centre, Imarat, Hyderabad	<i>S L N Acharyulu</i>
6.	1995	Indian Institute of Technology, Kharagpur	<i>K L Chopra H D Banerjee</i>
7.	1996	Indian Institute of Science Bangalore	<i>A K Singh</i>
8.	1997	Bhabha Atomic Research Centre, Mumbai	<i>C K Gupta G E Prasad</i>
9.	1998	Indian Institute of Technology, Chennai	<i>R Natarajan</i>
10.	1999	Regional Research Laboratory, Bhopal	<i>T C Rao</i>
11.	2000	Sardar Patel University, Vallabh Vidyanagar	<i>V S Patel L M Manocha</i>
12.	2001	Saha Institute of Nuclear Physics, Kolkata	<i>M K Sanyal</i>
13.	2002	Defence Metallurgical Research Laboratory, Hyderabad	<i>D Banerjee</i>
14.	2003	Bhabha Atomic Research Centre, Mumbai	<i>Ashok Misra / S Banerjee</i>

ANNOUNCEMENT

A new book released under the aegis of Materials Research Society of India entitled **Materials Research : Current Scenario and Future Projections**

Editors : R. Chidambaram & S. Banerjee

This book is being published by Allied Publishers Pvt. Limited, New Delhi. The publishers are ready to offer the book at a substantial discount to MRSI members. The book will be priced approximately Rs. 900/- but the **pre-publication price for the MRSI members will be Rs. 400/-**. Members who are interested in buying this book should urgently contact **Prof. S.V. Subramanyam, General Secretary, Materials Research Society of India, Department of Physics, Indian Institute of Science, Bangalore 560 012.**

About the Book

This book is a collection of review articles on a spectrum of modern materials. Materials Science has witnessed dramatic developments during the past couple of decades and has had a profound impact on technology development as a whole. It is often said that the availability of suitable materials is the fundamental prerequisite for the development of a specific technology. This point is aptly illustrated in some of the articles dealing with materials for space, aeronautics, nuclear energy, electronics, photonics and information technology. Most of the articles have outlined the basic principles behind the relevant phenomena, different aspects of materials processing and characterization and the intended applications of these specialized materials.

Materials science is truly an interdisciplinary subject. This is reflected in this collection containing thirty one reviews, covering a wide range of materials such as liquid crystals, aerogels, superalloys, shape memory alloys, refractory metals, rare earths, metal matrix composites, compound semiconductors, ceramics and carbon based materials. The authors, representing leading research groups in the country, have all emphasized the developments made in India against the background of the current global scenario and many of them have suggested directions for future research activities in their respective areas. This book is, therefore, extremely valuable for students of physics, chemistry, engineering, biology and materials science embarking on a career in materials research, for the practitioners of materials science and also for science planners involved in the development of high tech areas.

Contents

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C. Ganguly, Nuclear Reactor Fuels and Fuel Cycles

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G.K. Dey, Amorphous Alloys in Engineering Applications

S. Das, D.P. Mondal, A.K. Jha and A.H. Yegneswaran, Reinforced Aluminium Alloy Matrix Composites

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V.K. Wadhwan, Photonic Materials

E.V. Sampathkumaran, Rare-Earth-Based Magnetic Materials

S. Chaudhuri and A.K. Pal, Compound Semiconducting Materials for Photovoltaic Application

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S. Ahmad, Materials For Information Technology

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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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