



# MRSI Newsletter

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

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July 2005

## From the Editors' Desk



The IUMRS-ICAM 2005 got over just recently and it is heartening to note that over 120 scientists/students from India participated in the event. This issue contains a brief report on IUMRS-ICAM 2005 by Prof. S V Subramanyam, Vice President, MRSI. The next IUMRS-ICAM will be held in Bangalore during October 2007. We have a collective responsibility to ensure that it is organized in a fitting manner.

With the price of oil breaching the US \$ 60.00 a barrel mark, there is a definite need that concerted efforts are made in the country to reduce our dependence on oil. R&D in non-conventional/alternative sources of energy is to be pursued in a coordinated way. Our scientific community should take up the challenge on an urgent basis.

Like in the previous years, an update of MRSI activities is included with this issue.



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](http://www.igcar.ernet.in/mrsi)**

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## MRSI NEWSLETTER

Volume B 05, Number 3

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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:

*Editors*

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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.

<b>CNR Rao</b>	Chevalier De La Legion D' Honneur by the President of French Republic
<b>RA Mashelkar</b>	Elected as Foreign Associate of the US National Academy of Sciences
<b>LM Manocha</b>	(i) Dr. Vikram Sarabhai Award 2003-04 by Gujarat Council on Science & Technology (ii) Fellow, National Academy of Sciences
<b>RP Singh</b>	'Flory Award' by the World Forum on Advanced Materials
<b>Baldev Raj</b>	Lifetime Achievement Award 2004 by the Indian Welding Society

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

### New Chapter of MRSI at Lucknow

A new chapter of MRSI has been formed at Lucknow. Prof. R P Singh is the Chapter Chairman. The 17<sup>th</sup> AGM of MRSI is scheduled to be held at Lucknow during February 13-15, 2006. Further details will follow.

### Students' Projects

MRSI will partially support upto 10 projects of students (B.Tech, M.Sc, M.Tech, ME, Ph.D) in the area of Materials Science & Technology under the supervision of a MRSI member. Proposals are invited before **September 30<sup>th</sup> 2005**.

## NOTIFICATION

*Nominations for the MRSI Awards/Prizes and Medals for the year 2006*

**Nominations** are invited from the **Members of the Council of MRSI** for the following:

- Distinguished Materials Scientist of the year award (1)
- MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- MRSI Medal Lecture Awards
- Election of Distinguished scientists from abroad for Honorary Membership of MRSI

The last date for the receipt of nominations at Bangalore office of MRSI is **August 31 2005**.

## **IUMRS-ICAM 2007**

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

TMRSI will be organizing the IUMRS-ICAM 2007 in Bangalore, India during October 8-13, 2007. The venue would be Indian Institute of Science. The following symposia are tentatively proposed

### **Symposia(Partial & Tentative):**

- |   |  |  |                                 |
|---|--|--|---------------------------------|
| ▪ Intelligent Materials                 | ▪ MEMS                                 | ▪ Functional Materials   | ▪ Self Assembly & Nanomaterials |
| ▪ Magnetic & Spintronics Materials      | ▪ Semiconductors for Opto-electronics  | ▪ Biomaterials including Materials for Biomedical Applications | ▪ Soft Matter                   |
| ▪ Polymer Materials                     | ▪ Sensor Materials                     | ▪ Photonic Materials / Active Materials/ Electronic Packaging  | ▪ Multilayered Materials        |
| ▪ Hybrid Materials                      | ▪ Energy Materials                     | ▪ Composite Materials  | ▪ High Strength Materials       |
| ▪ High Performance Structural Materials | ▪ Computational Materials Science      | ▪ Materials for Catalysis                                      | ▪ Characterization of Materials |
| ▪ Microscopy of Materials               | ▪ Materials Synthesis-Novel Approaches |  |                                 |

### **Forums (Tentative):**

- Materials Education
- Green Materials

The programme will consist of (i) Plenary Lectures (ii) Invited Lectures (iii) Oral Presentations (iv) Poster Presentations and (v) Public Lectures. It will be a five day conference with more than ten parallel sessions. For further details refer to website [www.icam2007.com](http://www.icam2007.com)

## **REPORT OF ICMAT 2005 AND IUMRS-ICAM 2005**

The ICMAT 2005 and IUMRS-ICAM 2005 were held during 3-8 July 2005 at Singapore. The conference was organized by MRS Singapore in association with National University of Singapore and many other agencies. 2005 was the centennial year of National University of Singapore and hence the conference was very special.

The conference had plenary lectures delivered by the following Nobel Laureates:

- Prof. Steven Chu on 'Molecular Biology and Nanotechnology'
- Prof. Carl E Wieman on 'Bose-Einstein Condensation Quantum Weirdness at the Lowest Temperature in the Universe'
- Prof. Roald Hoffmann on 'Chemistry's Essential Tension: The same and not the same'

In addition to the Nobel prize winners for Plenary lectures, there were Plenary lectures delivered by the following distinguished scientists:

- Prof. Subra Suresh on 'Materials Science Approaches for Cell Biology and Human Disease State'
- Prof. CNR Rao on 'Chemical Routes to Nanomaterials'
- Prof. Bernard Raveau on 'The Future of Oxides as Functional Materials'
- Prof. Masuo Aizawa on 'Bio-Nanotechnology/Nano-Biotechnology Challenges for Intelligent Materials and Systems'
- Prof. Chenming Calvin Hu on 'The Roles of New Materials in Future CMOS Technology'

There were theme lectures by the following:

- Prof. Paul C W Chu on 'What does Nanotechnology have anything to do with High Temperature Superconductivity Science and Technology?'
- Prof. Denis Fichou on 'Building-up Supramolecular Self Assemblies on Surfaces: Towards Molecular Nanoelectronics'
- Prof. Teruo Okano on 'Call Sheet Technology-A New Revolutionary Tool for Tissue Engineering'
- The IUMRS Somiya award lecture was delivered by Prof. Zenji Horita of Japan

In addition, to plenary and theme lectures, there were about 25 symposia covering the frontier areas of materials science and technology. The symposia covered topics such as Biomaterials and Devices, Magnetic Materials, Polymeric and Hybrid Materials, Porous Materials, Ceramics, Electromagnetics, Energy related Materials and Devices, Photonics, MEMS, Interfaces, Semiconductors, Ecomaterials, Nanomaterials and Devices and Education in Materials Science, Engineering and Technology. There were 2200 delegates from about 50 countries. India had the 4th largest contingent with about 120 delegates. More than 2000 papers were presented at the conference. The conference was a tremendous success in terms of meticulous organization and careful planning. Many posters were presented at the conference. One poster from each theme symposium was selected for the Best Poster award. It is a matter of great satisfaction that three posters from India were selected for the Best Poster Award. The Best Poster awards were presented at the conference banquet and the award consisted of cash, a certificate, invitation to the banquet and dinner, and a group photo with the conference organizers.

It will be a matter of great privilege that the next ICAM conference will be held in India in 2007. It will be organized by MRSI and will be held at Bangalore during 8-13, October, 2007.

**S V Subramanyam**

### **POSTERS FROM INDIA WHICH WERE AWARDED THE BEST POSTER AWARDS DURING IUMRS-ICAM 2005 AT SINGAPORE**

- 'Non-Linear optical studies in As<sub>2</sub>S<sub>3</sub> and Nanolayered Bi/As<sub>2</sub>S<sub>3</sub> Multilayered films'**  
K.V.Adarsh, B.Jeyaganesh, Jharana Kumari Dhal, K.S.Sangunni, Department of Physics, Indian Institute of Science, Bangalore 560012, Suchand Sandeep C.S, Reji Philip, Raman Research Institute, Bangalore 560 080, S. Kokenyesi, Department of Experimental Physics, University of Debrecen, Hungary, M. Shipljak, I. Vojnarovics, Institute of Solid State Physics & Chemistry, Uzhgorod National University, Ukraine.
- 'Use of the Liquid-Liquid Interface to prepare Nanocrystalline and Single-Crystalline Ultrathin Films of Metal Chalcogenide Semiconductors'**  
Ujjal K Gautam, Indian Institute of Science, Bangalore 560 012 and CNR. Rao, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur P.O, Bangalore 560 064
- Lead-free photoimageable Silver Conductor Paste Formulation for High Density Electronic Packaging**  
S.A. Ketkar, G Umarji, J Ambekar, G J Phatak, U P Mulik, D P Amalnerkar, Centre for Materials for Electronics Technology, Pashan Road, Pune 411 008

## G C JAIN MEMORIAL PRIZE FOR THE BEST Ph.D THESIS IN MATERIALS SCIENCE

The Council of MRSI decided to award an annual prize one in each calendar year for the best Ph.D. thesis in the area of Materials Science. The funds for this prize have been raised by the Pune Chapter of MRSI. The Guidelines and the Application form are furnished hereunder:

### Guidelines

1. The prize will be given each year for the best Ph.D thesis in the broad multi disciplinary field of Materials Science, in disciplines such as Condensed Matter Physics, Chemistry, Biology, Metallurgy, Ceramics and Chemical Engineering.
2. Criteria for Selection:
  - Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2004, 2005 for the current prize)
  - Three recommendation letters should be enclosed including one from the thesis supervisor along with a one-page write-up highlighting the prime results of the thesis.
  - Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.
  - The shortlisted thesis will be selected after peer reviewing during November/December. Such shortlisted theses work must be presented by the students concerned in poster/oral format at the next AGM of MRSI. The final selection will be done at the AGM by a suitably constituted committee.
- 3) The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.
- 4) Application in the prescribed format reproduced alongside should be sent to the Secretary, MRSI so as to reach him on or before **October 30<sup>th</sup>, 2005**.

### APPLICATION FORM

Photo

#### G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science

1. **Name of the Applicant** :
2. **Address** :
  - Office :
  - Residence :
  - Telephone :
  - Fax :
  - Email :
3. **Academic Record**  
(in brief) (Degree/year of passing/University) :
4. **Title of the Ph.D Thesis:**
  - a) The discipline or subject in which the Ph.D degree was awarded :
  - b) Name of the University/Laboratory/Institute where the Ph.D work was carried out :
  - c) Name of the Research Supervisor :
  - d) Date of submission of the thesis :
  - e) Date of Award of Ph.D :
  - f) One page write-up of the thesis highlighting the prime results (to be enclosed) enclosed / not enclosed
5. **Recommendation Letters**  
(from the thesis supervisor and 2 other experts) (to be enclosed) enclosed / not enclosed
6. **List of Publications based on the thesis work**  
in Journals, Reports, Conferences, Patents (to be enclosed)  
Give Title of the Paper, Authors, Journal, Vol / Page/ Year for Journal Publications enclosed / not enclosed
7. **Any additional information**  
  
Date : Signature

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Enrolled between April 1 and June 30, 2005

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## **CALENDAR OF EVENTS JULY 2005 - FEB. 2006**

<b>July 18-22, 2005</b> , Powders & Grains 2005, for details visit website <a href="http://www.ical.uni-stuttgart.de/~pg2005">http://www.ical.uni-stuttgart.de/~pg2005</a>
<b>July 25-August 3, 2005</b> , Summer School and Mini Conference on Dynamical Mean-Field Theory for Correlated Electrons: Applications to Real Materials, Extensions and Perspectives, C/o Ms. Patricia Wardell, The Abdus Salam International Centre for Theoretical Physics, Strada Costiera 11, 34014, Trieste, Italy, Tel: +39-040-2240576, Telefax: +39-040-2240163, Email: smrl1667@ictp.trieste.it
<b>July 28-30, 2005</b> , ISSS International Conference on Smart Materials, Structures and Systems, Dr. GM Kamath, Advanced Composites Division, National Aerospace Laboratories, Bangalore 560 017, Tel: 080-25086414/25086401, Fax: 080-25267352, Emails: issconf@css.nal.res.in, gmkamath@css.nal.res.in, rameshs@css.nal.res.in
<b>August 10-12, 2005</b> , National conference on Recent Trends in Materials Science and Technology, Mr. A Ruban Kumar, Organizing secretary-NCRTMST 2005, Vellore Institute of Technology, Deemed University, Vellore 632 014, Tel: 0416-2202350/2202338/2202353, Fax: 0416-2243092, Email: ncrmtst2005@vit.ac.in, rubankumar@yahoo.com
<b>August 23-31, 2005</b> , XX International Union of Crystallography, Scientific Secretariat-Andrea Lenco & Patrizia Rossi, Email: iucr@iucr2005.it
<b>September 5-9, 2005</b> , 11 <sup>th</sup> International Meeting on Ferroelectricity, Prof. Rino-IMF 11 Secretariat, Cataratas del Iguazur/Foz do Iguacu, Argentina/Brazil, Fax: (+55) 16 3361-4835.
<b>September 29-30, 2005</b> , Symposium on Crystal Growth and Characterization, Dr. V Joseph, Convenor, Department of Physics, Loyola College, Chennai 600 034, Tel: 044-28178200, Fax: 044-28175566, Email: vjoseph@loyolacollege.edu
<b>November 14-16, 2005</b> , 43 <sup>rd</sup> National Metallurgists Day and 59 <sup>th</sup> Annual Technical Meeting, Indian Institute of Metals, Dr. S L Mannan, Convenor EDM-2005 & NMD-ATM 2005, Director, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603 102, Tel: 04114-280222, Fax: 04114-280075, Email: nmd2005@igcar.ernet.in
<b>December 9-10, 2005</b> , ISAMPE National Conference on Composites, Prof. R Subba Rao, Amrita School of Engineering, Ettimadai, Coimbatore 641 105, Email: isampe@amrita.edu
<b>December 20-22, 2005</b> , International Conference on MEMS and Semiconductor Nanotechnology, Prof. S K Ray, Department of Physics, Indian Institute of Technology, Kharagpur 721 302, Tel: 03222-283528/283838, Fax: 03222-282700/282013, Email: memsnano@iitkgp.ac.in
<b>February 7-9, 2006</b> , National Conference on Luminescence and its Applications (NCLA-2006), Dr. S K Omanwar, Convenor NCLA-2006, Department of Physics, Amravati University, Amravati 444602, Fax: 0721-2662135/2660949, Email: ncla2006amt@rediffmail.com
<b>February 13-15, 2006</b> , 17 <sup>th</sup> AGM of MRSI, Dr. Poonam Tandon, Convenor, 17 <sup>th</sup> AGM MRSI Secretariat, Department of Physics, University of Lucknow, Lucknow 226 007, Tel: 9415409735, Fax: 0522-2740467, Email: mrsi@lkouniv.ac.in
<b>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"</b>

# AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 15 years of activity and in this update, the following information is given.

- ❖ Membership status
- ❖ Awards & Honours
- ❖ Information Collection & Dissemination System
- ❖ Publications
- ❖ International Cooperation
- ❖ Annual General Meetings

## Membership Status

MRSI has the following classes of membership. The status as on June 30, 2005 is:

<b>Life Members</b>	<b>: 1863</b>
<b>Annual Members</b>	<b>: 129</b>
<b>Honorary Members</b>	<b>: 148</b>
<b>Patron Members</b>	<b>: 63</b>

## Awards and Honours

### Distinguished Materials Scientist of the Year Award:

**DISTINGUISHED MATERIALS SCIENTIST OF THE YEAR AWARD is the highest 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)
Prof. T V Ramakrishnan	(2004)
Prof. K T Jacob	(2005)

## MRSI-ICSC Superconductivity and Materials Science Award (Senior)

Prof. CNR Rao, (JNCASR, Bangalore)	(1993)
Dr. P Rama Rao, (UOH, Hyderabad)	(1996)
Dr. S K Joshi, (NPL, New Delhi)	(1999)
Dr. M S Valiathan (MAHE, Manipal)	(2002)
Prof. P Ramachandra Rao (BHU, Varanasi)	(2005)

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)
Prof. S. Dattagupta (SNBNCBS, Kolkata)	(2005-2006)

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

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, NML, Jamshedpur	(2002)
Prof. A K Raychaudhuri, IISc, Bangalore	(2002)
Dr. S Banerjee, BARC, Mumbai	(2003)
Dr. B M Arora, TIFR, Mumbai	(2003)
Prof. Dhananjai Pandey, BHU, Varanasi	(2004)
Prof. S B Krupanidhi, IISc, Bangalore	(2004)
Dr. Baldev Raj, IGCAR, Kalpakkam	(2005)
Prof. G. Ananthakrishna, IISc, Bangalore	(2005)

## MRSI Medal Lectures

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 241 Medals have been awarded.

The MRSI Medal winners for the years 1990 to 2005 are listed below:

### 1990

Prof. S. B. Ogale, University of Poona, Pune  
Dr. P. Muralidharan, SSPL, Delhi  
Prof. S. V. Subramanyam, IISc, Bangalore  
Prof. K. Chattopadhyay, IISc, Bangalore  
Dr. V. Chandrasekharan, DMRL, Hyderabad  
Prof. D. D. Sarma, IISc, Bangalore  
Prof. Manu Multani, TIFR, Mumbai  
Dr. A. M. Varaprasad, DMSRDE, Kanpur  
Prof. G. V. Subba Rao, IIT, Madras  
Dr. D. Pandey, BHU, Varanasi  
Dr. S. Sivaram, NCL, Pune  
Dr. M. K. Sridhar, NAL, Bangalore  
Prof. C. Lakkad, IIT, Mumbai  
Prof. K. A. Padmanabhan, IIT, Madras  
Dr. N. C. Birla, DMRL, Hyderabad  
Dr. S. Banerjee, BARC, Mumbai

### 1991

Prof. S. Ranganathan, IISc, Bangalore  
Dr. A. H. Sequeria, BARC, Mumbai  
Dr. A. K. Sreedhar, SSPL, New Delhi  
Prof. A. K. Barua, IACS, Kolkata  
Dr. H. S. Maiti, CGCRI, Kolkata  
Prof. R. Srinivasan, IIT, Madras  
Prof. B. K. Sadashiva, RRI, Bangalore  
Dr. O. P. Bahl, NPL, New Delhi  
Dr. D. Banerjee, DMRL, Hyderabad  
Dr. J. Mukherji, CGCRI, Kolkata  
Prof. D. N. Bose, IIT, Kharagpur  
Dr. A. K. Singh, NAL, Bangalore  
Dr. S. K. Sikka, BARC, Mumbai  
Prof. J. Gopalakrishnan, IISc, Bangalore  
Dr. C. K. Gupta, BARC, Mumbai  
Dr. P. Rodriguez, IGCAR, Kalpakkam  
Dr. V. M. Nadkarni, NCL, Pune

### 1992

Dr. B. K. Das, NPL, New Delhi  
Prof. Vikram Kumar, IISc, Bangalore  
Prof. S. Mohan, IISc Bangalore  
Prof. G. Ananthakrishna, IISc, Bangalore  
Dr. R. Thyagarajan, SSPL, Delhi  
Prof. D. Chakravorty, IACS, Kolkata  
Dr. Baldev Raj, IGCAR, Kalpakkam  
Dr. A. D. Damodaran, RRL, Thiruvananthapuram  
Dr. S. R. Rajagopalan, NAL, Bangalore  
Dr. Pradip, TRDDC, Pune

Prof. P. Pramanik, IIT, Kharagpur  
Dr. Y. R. Mahajan, DMRL, Hyderabad  
Dr. G. Sundararajan, DMRL, Hyderabad  
Prof. K. T. Jacob, IISc, Bangalore  
Prof. P. Ramasamy, Anna Univ. Chennai  
Dr. S. P. Garg, BARC, Mumbai  
Prof. P. Ganguly, NCL, Pune  
Prof. S. Banerjee, NML, Jamshedpur  
Dr. R. Sivakumar, SCTIMST, TRV  
Dr. N. Balasubramanian, Everest Ltd., Bng  
Dr. C. G. Krishnadas Nair, HAL, Bangalore

### 1993

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Prof. G. S. Upadhyaya, IIT, Kanpur  
Dr. K. C. Patil, IISc, Bangalore  
Dr. S. K. Date, NCL, Pune  
Dr. L. Madhav Rao, BARC, Mumbai  
Dr. Sanak Mishra, SAIL (R & D) Ranchi  
Dr. Krishan Lal, NPL, New Delhi  
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Prof. K. A. Natarajan, IISc, Bangalore  
Dr. A. K. Shukla, IISc, Bangalore  
Dr. C. K. Mathews, IGCAR, Kalpakkam

### 1994

Dr. K. Balakrishnan, CECRI, Karaikudi  
Prof. S. V. Bhat, IISc, Bangalore  
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Prof. V. V. P. Kutumba Rao, BHU, Varanasi  
Dr. S. K. Mitra, Tata Steel, Jamshedpur  
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Vallabh Vidyanagar

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Dr.B.K.Sarkar, CGCRI, Kolkata  
Prof.Subrata Ray,Univ. of Roorkee, Roorkee  
Prof.Pushpa Bajaj, New Delhi  
Dr.Pran Kishan,SSPL, Delhi  
Prof.L.K.Malhotra,IIT, New Delhi  
Dr.O.N.Mohanty, TISCO,Jamshedpur  
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Prof. V. D. Vankar, IIT,New Delhi  
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#### 1998

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Dr.(Ms) Prabha R Chatterjee, IICT,Hyderabad  
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Dr. Om Prakash, BHU, Varanasi  
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#### 2002

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Prof. Damodara Das V, IIT, Madras, Chennai  
Prof. Devendra Kumar, BHU, Varanasi  
Kumar A N, Indian institute of Technology, Delhi  
Majumdar S D, ACC, Thane

Pawar S H, Shivaji University, Kolhapur  
Prof. Pradeep T , IIT, Madras, Chennai  
Prof. Ramakrishnan S, IISc, Bangalore  
Dr. Shobhana Narasimhan, JNCASR, Bangalore  
Prof. Shrikant V Joshi , ARC-I, Hyderabad  
Dr. Subramanian P N, VSSC, Thiruvananthapuram

#### 2003

Dr. Amarnath Sen, CGCRI, Kolkata  
Dr. Bharathi A, IGCAR, Kalpakkam  
Prof. Bhupendra N Dev, Institute of Physics, Bhubaneswar  
Prof. Devang V Khakhar, IIT, Mumbai  
Prof. Jyothindra Kumar K, Govt. Dental College, Thiruvananthapuram  
Dr. Kothiyal G P, BARC, Mumbai  
Dr. Maitra A N, Univ. of Delhi, Delhi  
Dr. Mitra R, IIT, Kharagpur  
Dr. Murali Sastry, NCL, Pune  
Prof. Narayanasamy A, Univ. of Madras, Chennai  
Dr. Pillai C K S, RRL, Thiruvananthapuram  
Prof. Sekhon S S, Guru Nanak Dev Univ, Amritsar  
Prof. Shanker Ram, IIT, Kharagpur

#### 2004

Dr. B.C. Pai, RRL, Thiruvananthapuram  
Dr. Debabrata Basu, CGCRI, Kolkata  
Prof. A.K. Nandi, IACS, Kolkata  
Prof. B.S. Murty, IIT, Kharagpur  
Dr. Suman Kumari Mishra, NML, Jamshedpur  
Prof. B.R. Mehta, IIT, Delhi  
Dr. Pushan Ayyub , TIFR, Mumbai  
Dr. V. Venugopal, BARC, Mumbai  
Dr. M. Vijayalakshmi, IGCAR, Kalpakkam  
Dr. S.C. Jain, NFC, Hyderabad  
Dr. R.M.V. Gopalakrishna Rao, NAL, Bangalore  
Dr. B.D. Malhotra, NPL, Delhi  
Dr. T.L. Prakash, C-MET, Hyderabad

#### 2005

Dr. Arvind Sinha (NML, Jamshedpur)  
Dr. Balasubramanian S (JNCASR, Bangalore)  
Dr. Budhani R C (IIT, Kanpur)  
Prof. Byrappa K (Mysore University, Mysore)  
Prof. Chandrasekaran S (IISc, Bangalore)  
Dr. Goutam De (CGCRI, Kolkata)  
Dr. Kulshreshtha S K (BARC, Mumbai)  
Dr. Radhakrishnan S (NCL, Pune)  
Dr. Sulabha Kulkarni (Pune University, Pune)  
Prof. Subhadra Chaudhuri (IACS, Kolkata)  
Dr. Tyagi A K (BARC, Mumbai)  
Dr. Umesh Waghmare (JNCASR, Bangalore)

**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 Pt<sub>5</sub>La, Pt<sub>5</sub>Ce, Pt<sub>5</sub>Pr, Pt<sub>5</sub>Tb and Pt<sub>5</sub>Tm, 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 M R 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  $^{181}\text{Ta}$  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 bio-active glass ceramic system' by S Abhiraman, H K Varma, T V Kumari, P R Umashankar and Annie John, Biomedical Technology Wing, Sree Chitra Tirunal Institute of Medical Sciences & Technology, Thiruvananthapuram, Bulletin of Materials Science, Vol 25 (5) (2002), p 419.

**2004:**

'Development of fully Injectable Calcium Phosphate Cement for Orthopedic and Dental Applications' by Manoj Komath and H K Varma, Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, Bulletin of Materials Science, Vol 26 (4), (2003), p 415.

**2005:**

'Fabrication of silicon based glass fibres for optical communication' by Vivek P Kude, Department of Applied Physics, MGM College of Engineering, Nanded and R S Khairnar, School of Physical Sciences, SRTMU, Vishnupuri, Nanded Bulletin of Materials Science, Vol 27 (1), February 2004, pp 73-77.

**BEST POSTER PRIZES****2004:**

'MTMS based Superhydrophobic Silica Aerogels' by Manish M Kulkarni and A Venkateswara Rao, Dept. of Physics, Shivaji University, Kolhapur.

**'Modifications to the Phase Diagram of**

**(1-x)Pb[(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>]-xPbTiO<sub>3</sub> Ceramics'** by Akhilesh Kumar Singh, Dhananjai Pandey and Oksana Zaharko, Banaras Hindu University, Varanasi.

**'Photoimageable conductor Composition for high Density Electronic Packaging of Smart Devices & Allied Subsystems'** by Govind G Umarji, Supriya A Ketkar, R Marimuthu, G J Phatak, T Seth, D P Amalnerkar and U P Mulik, C-MET, Pune.

**'Spin Probe ESR Studies of PEG<sub>x</sub>LiClO<sub>4</sub> Solid Polymer Electrolyte Systems'** by Shrivalli N Bhat, Ajay Sharma, S Srinivas Rao and S V Bhat, Dept. of Physics, Indian Institute of Science, Bangalore.

**2005:**

**'Synthesis and characterization of Silica-Titania core-shell Particles'** by Kalele S, Dey R.M., Hebalkar N., Godavi S. and Kulkarni S.K., Dept. of Physics, University of Pune, Pune.

**'Field Emission Characteristics of Rose petal like Nanostructured carbon thin films grown by MPECVD Process'** by Srivastava S.K., Shukla A.K., Vanker V.D. and Kumar V., Department of Physics, Indian Institute of Technology and National Physical Laboratory, Pusa, Delhi.

**'Synthesis and characterization of Zinc oxide Nanoparticles'** by Ashtaputre, S.S., Marathe S.K., Gosavi S.W., and Kulkarni S.K., Dept. of Physics, Pune University, Pune.

**'Effect of Curing Temperature and Fibre Loading on the swelling behavior of Isora fibre reinforced Natural rubber Composites in oils used in automobiles'** by Lovely Mathew, Joseph K.U. and Rani Joseph Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Cochin.

**INFORMATION COLLECTION AND DISSEMINATION SYSTEM**

The Technology Information Forecasting and Assessment Council (TIFAC) has identified MRSI as a nodal agency for developing a data base for non-ferrous materials. In this connection, TIFAC has provided financial support to create a data bank on non-ferrous materials at MRSI headquarters, DMRL, Hyderabad dedicated for the purpose of data acquisition and storage pertaining to non-ferrous materials, technologies for their processing and areas of their application. A group of professionals with diverse background in Metallurgy, Computer Science and Library / Information science are working with this project. Presently the data bank consists of 1325 technology records on Non-ferrous Materials and it has published many value-added reports in the area of Non-ferrous Materials.

It has been decided to shift the MRSI/TIFACLINE Unit to ARC-International, Hyderabad. Its scope will be widened to cover the areas of ceramics, powder metallurgy and surface engineering.

### **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 578 pages of scientific articles in 2004. The BMS is available on the internet (<http://www.ias.ac.in/materci/>). Two special issues of Materials Awareness Bulletin on "Application of Rare Earths" and "Processing Technologies for Advanced Ceramics and Composites" were brought out as a joint publication of Materials Research Society of India and Defence Metallurgical Research Laboratory.

MRSI is also bringing out the MRSI Newsletter which includes among other news the 'Calendar of Events' where the forthcoming conferences/symposia/workshops related to Materials Science are listed along with the name and addresses of the contact persons. The MRSI Newsletter is being edited by Prof. H L Bhat, Dr. R V Krishnan and Dr. TG Ramesh.

The MRSI brought out its updated version of membership directory in 2001. The next edition of this directory is due now. The society has an interactive website ([www.igcar.ernet.in/mrsi](http://www.igcar.ernet.in/mrsi)) for interactions amongst its members interested in science and technology of materials.

MRSI has brought out an edited volume of the '**Materials Research-Current Scenario and Future**'.

### **HONORARY MEMBERS**

*(elected during the period 1990-2005)*

*(year in the bracket indicates the year of election)*

**Alario-Franco MA**, 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 CA**, 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)

**Projections'** edited by R Chidambaram and S Banerjee with special emphasis on the Indian scenario.

### **INTERNATIONAL CO-OPERATION**

**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, 2001, 2002

One of the prestigious conferences IUMRS-ICAM is scheduled to be held in Bangalore, India during 8-13, October, 2007.

**MRSI** is a founding member of Asia Pacific Academy of Materials (APAM). It has continued its strong links with APAM. Prof. CNR Rao was its Founder President. Currently Prof. Kuznetsov is its President. Prof. S V Subramanyam, Vice President of MRSI is the *Secretary-General* of APAM. APAM has members from India, Russia, Japan, China, Uzbekistan, Korea, Taiwan and Australia.

The Chapter holds its annual meeting in conjunction with the AGM of MRSI. APAM-India Chapter has been formed with 55 members. There is significant contingent of materials scientists from India at the MRS-USA meetings held at Boston each year.

**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 MA**, 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 & Techn. Japan (1990)

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

**Edwards PP**, The University of Birmingham, UK (1995)

**Embury J D**, McMaster University, Canada (1993)

**Enoki T**, Tokyo Institute of Technology, Japan (2005)

**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)

**Fernando Lund**, CIMAT, Chile (2004)

**Fortes MA**, 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)

**Ilchner 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)

**Klein M**, University of Pennsylvania, USA (2005)

**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)

**Lucas Jacques**, University of Rennes, France (2005)

**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 Yoshimura**, Tokyo Institute of Technology,Japan (2003)

**Masumoto T**, The Research Institute for Electric and Magnetic Materials, Japan (1995)

**Matthew Tirrell**, University of California, USA(2004)

**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 UniversityUSA (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)

**Ramdass 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-Planck 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**, Renssealaer 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**, Center for AtomTechnology, 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)

## ANNUAL GENERAL MEETINGS

Sl. No	AGM	Venue	Organizers
1.	1990	National Chemical Laboratory, Pune	<i>Chairman:</i> R A Mashelkar
2.	1991	National Physical Laboratory, New Delhi	<i>Chairman:</i> S K Joshi <i>Secretary :</i> B K Das
3.	1992	Indian Institute of Science, Bangalore	<i>Chairman:</i> S Ranganathan <i>Convenor:</i> A M Umarji
4.	1993	Regional Research Laboratory, Thiruvananthapuram	<i>Chairman:</i> A D Damodaran
5.	1994	Research Centre, Imarat, Hyderabad	<i>Chairman:</i> S L N Acharyulu
6.	1995	Indian Institute of Technology, Kharagpur	<i>Chairman:</i> K L Chopra <i>Convenor:</i> H D Banerjee
7.	1996	Indian Institute of Science, Bangalore	<i>Chairman :</i> A K Singh
8.	1997	Bhabha Atomic Research Centre, Mumbai	<i>Chairman :</i> C K Gupta <i>Secretary :</i> G E Prasad
9.	1998	Indian Institute of Technology, Chennai	<i>Chairman :</i> R Natarajan
10.	1999	Regional Research Laboratory, Bhopal	<i>Convenor :</i> T C Rao
11.	2000	Sardar Patel University, Vallabh Vidyanagar, Gujarat	<i>Chairman :</i> V S Patel <i>Convenor :</i> L M Manocha
12.	2001	Saha Institute of Nuclear Physics, Kolkata	<i>Convenor :</i> M K Sanyal
13.	2002	Defence Metallurgical Research Laboratory, Hyderabad	<i>Convenor :</i> D Banerjee
14.	2003	Bhabha Atomic Research Centre, Mumbai	<i>Chairman :</i> Ashok Misra
15.	2004	Banaras Hindu University, Varanasi	<i>Convenor :</i> S Lele
16.	2005	National Chemical Laboratory, Pune	<i>Chairman :</i> S Sivaram <i>Convenor :</i> K Vijayamohanan

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Professional Societies, Research bodies, Laboratories and Companies willing to support activities of MRSI (through a one-time contribution of Rs. 50,000/-) are enrolled as Patron members by the Council of the MRSI.

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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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**General Secretary, MRSI**  
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