



# MRSI Newsletter

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

Volume B 09, Number 3

July 2009

## From the Editors' Desk



Recently, the International conference on Materials for Advanced Technologies (ICMAT 2009) concluded in Singapore. There were 23 Symposia covering contemporary topics of importance for the science, engineering and technology of materials. The objectives of the conference were to discuss and share recent achievements and innovations in materials research to facilitate interactions between researchers from industries, national laboratories and academia for future international collaborations. The main topics focussed on Magnetic Materials, Nanostructured Materials for Energy Generation, Advanced Biomaterials and Regenerative Medicine, Nanomaterials for Bioimaging and Biosensing, Advanced Delivery of Therapeutics: New Challenges for Materials, Functional Ceramic Materials, Oxide Thin Films and Heterostructures, Compound Semiconductor Photonics: Materials, Devices and Integration, Optical Fiber Devices and Applications, Computational Materials Design at All Scales: From Theory to Application, Single Crystals; Growth and Applications for Research and Industry, Novel Routes of Solution Processing, Advanced Component Manufacture from Light Materials, Mechanical Behavior of Micro - and Nano-Scale Systems and many more. This meeting brought together the interdisciplinary topics encompassing all areas of science and technology.



**K K Nanda  
Satish Patil**  
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 09, Number 3**

**July 2009**

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*

**MRSI Newsletter**

Materials Research Society of India  
IISc Campus, Bangalore 560 012, India

Email: [svsmrsi@physics.iisc.ernet.in](mailto:svsmrsi@physics.iisc.ernet.in)  
[nanda@mrc.iisc.ernet.in](mailto:nanda@mrc.iisc.ernet.in)  
[satish@sscu.iisc.ernet.in](mailto:satish@sscu.iisc.ernet.in)

## 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>C N R Rao</b>	The Royal Medal, Royal Society, London (2009)
<b>G Parthasarathy</b>	Elected as FRSC, Royal Society of Chemistry, Cambridge, UK (2009)
<b>B K Sadashiva</b>	G W Gray Medal, British Liquid Society (2009)

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

## 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 and Technology under the supervision of a MRSI member. Proposals are invited before September 30<sup>th</sup> 2009.

## NOTIFICATION

*Nominations for the MRSI Awards/Prizes and Medals for the year 2010*

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

- i. Distinguished Materials Scientist of the year award (1)
- ii. MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- iii. MRSI Medal Lecture Awards
- iv. 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 **July 31, 2009**.

## A NEW BOOK !

A new book titled 'Tribology of Natural Fibre Polymer Composites' authored by Dr. Navin Chand and Dr. M Fahim has been released by Woodhead Publishing Limited. For more details please contact the author at <navinchand15@indiainfo.com>

**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:*

<b><u>Guidelines</u></b>	<b><u>Application Form</u></b>
	<b>Photo</b>
	<b>G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science</b>
<p>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.</p> <p>2. Criteria for Selection</p> <p>- Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2008, 2009 for the current prize)</p> <p>- 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.</p> <p>- Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.</p> <p>- The shortlisted theses 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.</p> <p>3) The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.</p> <p>4) Application in the prescribed format reproduced alongside should be sent to the Secretary, MRSI so as to reach him on or before <b>October 31<sup>st</sup>, 2009.</b></p>	<p><b>1. Name of the Applicant :</b></p> <p><b>2. Address :</b></p> <p style="padding-left: 20px;">Office</p> <p style="padding-left: 20px;">Residence :</p> <p style="padding-left: 20px;">Telephone :</p> <p style="padding-left: 20px;">Fax :</p> <p style="padding-left: 20px;">Email :</p> <p><b>3. Academic Record</b> (in brief) (Degree/year of passing/University) :</p> <p><b>4. Title of the Ph.D Thesis:</b></p> <p>a) The discipline or subject in which the Ph.D degree was awarded :</p> <p>b) Name of the University/Laboratory/Institute : where the Ph.D work was carried out</p> <p>c) Name of the Research Supervisor :</p> <p>d) Date of submission of the thesis :</p> <p>e) Date of Award of Ph.D :</p> <p>f) One page write-up of the thesis highlighting the prime results (to be enclosed) enclosed/not enclosed</p> <p><b>5. Recommendation Letters</b> (from the thesis supervisor and 2 other experts) (to be enclosed) enclosed/not enclosed</p> <p><b>6. List of Publications based on the thesis work</b> in Journals, Reports, Conferences, Patents (to be enclosed) Give Title of the Paper, Authors, Journal, Vol / Page/ Year for Journal Publications enclosed/not enclosed</p> <p><b>7. Any additional information</b></p> <p style="padding-left: 20px;">Date :</p> <p style="text-align: right; padding-right: 20px;">Signature</p>

## New Members

Enrolled between April 1 and June 30, 2009

### Life Members

Samar Kumar Medda (LMB1142)  
Central Glass & Ceramic Research  
Institute, 196, Raja S C Mullick Road  
Jadavpur  
**Kolkata 700 032**  
Tel (Off): 033-24838086  
Fax: 033-24730957  
Email: Samar@cgcric.res.in

Radhakrishna D (LMB1145)  
No. 672, 4th Cross Road  
Mahalakshmi Layout  
**Bangalore 560 086**

Sunit B Rane (LMB1148)  
Centre for Materials for Electronics  
Technology, Panchawati  
Off Pashan Road  
**Pune 411 008**  
Tel (Off): 020-25899273, Fax: 020-25898180  
Email: sunit@cmet.gov.in,

Kaustava Bhattacharyya (LMB1151)  
3-95 H, Mod Labs, Chemistry Division  
Bhabha Atomic Research Centre,  
Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25590271, Fax: 022-25505151  
Email: kaustava@barc.gov.in

Balaji Prasad Mandal (LMB1154)  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25592305  
Fax: 022-25505151  
Email: bpmandal@barc.gov.in

Sandeep Nigam (LMB1157)  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25590287  
Email: snigam@barc.gov.in

Santosh Kumar Tripathi (LMB1143)  
MOCVD Division, DMSRDE, G T Road  
DMSRDE P.O.  
**Kanpur 208 013**  
Tel (Off): 0512-2451759 Ext. 299  
Fax: 0512-2450404  
Email: stripathi12@rediffmail.com

Pramod Hiralal Borse (LMB1146)  
Advanced Research Centre for Power  
Metallurgy and New Materials  
Balapur Post  
**Hyderabad 500 005**  
Tel (Off): 040-24457104  
Fax: 040-24442699  
Email: phborse@arci.res.in,

Anshu Singhal (LMB1149)  
Chemistry Division, Mod Labs  
Bhabha Atomic Research Centre  
**Mumbai 400 085**  
Tel (Off): 022-25590281  
Email: ansing@barc.gov.in

Hassan P A (LMB1152)  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25595099, Fax: 022-25505151  
Email: hassan@barc.gov.in

Jayshree Ramkumar (LMB1155)  
42, Mount Abu, Anusakthinagar  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25592224  
Email: jrk@barc.gov.in

Siddhartha Kolay (LMB1158)  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25592460  
Email: siddharthakolay@yahoo.co.in

Ramesh Venkata Kocharlakota  
(LMB1144)  
6-20-4/5, Sai Krupa Apartments  
Opp: KDPM High School  
East Point Colony  
**Vishakapatnam 530 017**  
Tel (Off): 0891-28402777  
Fax: 0891-2790399  
Email: kv\_ramesh5@yahoo.co.in

Rakesh Kumar Sinha (LMB1147)  
Room No. 314, Council of Scientific and  
Industrial Research, CSIR Hq  
2, Rafi Marg  
**New Delhi 110 001**  
Tel (Off): 011-23321425  
Fax: 011-23710340  
Email: rksinha@csir.res.in

Dheeraj Jain (LMB1150)  
2-220-H, Chemistry Division  
Mod Labs, Bhabha Atomic Research  
Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25590278  
Email: jaind@barc.gov.in,

Ratikant Mishra (LMB1153)  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25592460  
Email: mishrar@barc.gov.in

Dimple P Dutta (LMB1156)  
3-193-S, Modular Labs  
Chemistry Division, Bhabha Atomic  
Research Centre, Trombay  
**Mumbai 400 085**  
Tel (Off): 022-25592308  
Email: dimpled@barc.gov.in

Savio S G (LMB1159)  
ADD Division, Defence Metallurgical  
Research Laboratory, P.O Kanchanbagh  
**Hyderabad 500 058**  
Tel (Off): 040-24586797  
Fax: 040-24345157  
Email: geasin@yahoo.com

Nupur Bahadur (LMB1160)  
Room No. 104 A, Materials  
Characterization Division  
National Physical Laboratory  
Dr. K S Krishnan Road  
**New Delhi 110 012**  
Tel (Off): 011-45609308  
Email: nupurbahadur@gmail.com

Kuruvilla Joseph (LMB1163)  
Department of Chemistry  
Indian Institute of Space Science and  
Technology, DOS, ISRO (P.O), Veli  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2563469  
Email: kjoseph.iist@gmail.com

Prabhakaran Kuttan (LMB1166)  
Indian Institute of Space Science and  
Technology, DOS, ISRO (P.O), Veli  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2563059  
Email: kp2952002@yahoo.co.uk

Sandhya K Y (LMB1169)  
Plot No. 205  
I Floor, PTP Nagar  
**Thiruvananthapuram 695 038**  
Email: kysandh@yahoo.com

Shiny Velayudhan (LMB1172)  
DTERT, BMT Wing, Sree Chitra Tirunal  
Institute of Medical Science and  
Technology, Satelmond Palace  
Poojapura P.O  
**Thiruvananthapuram 695 012**  
Email: shynysct@yahoo.com

Santhosh B (LMB1175)  
Priya Vihar, 608, Prasanth Nagar  
Ulloor, Medical College P.O  
**Thiruvananthapuram 695 011**  
Tel (Off): 0471-2569170  
Fax: 0471-2360158  
Email: b.santhosh@vssc.gov.in

Manoj Raama Varma (LMB1178)  
MMD, National Institute for  
Interdisciplinary Science and  
Technology, CSIR, Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515377  
Fax: 0471-2491712  
Email: manoj@niist.res.in

Ramesh Chandra Tiwari (LMB1161)  
Department of Physics, Mizoram  
University, Tanhril Campus  
**Aizawl 796 009**  
Tel (Off): 0389-2330522  
Fax: 0389-2330435  
Email: ramesh\_mzu@rediffmail.com

Nirmala Rachel James (LMB1164)  
Department of Chemistry  
Indian Institute of Space Science and  
Technology, DOS, ISRO (P.O), Thumba  
**Thiruvananthapuram 695 022**  
Tel (Off): 0471-2563465  
Email: nirmalasilmon@yahoo.co.uk

Mary Gladis J (LMB1167)  
Indian Institute of Space Science and  
Technology, DOS, ISRO (P.O), Thumba  
**Thiruvananthapuram 695 022**  
Tel (Off): 0471-2563056  
Email: jmarygladis@rediffmail.com

Ranjit Divakaran (LMB1170)  
BMT Wing, Sree Chitra Tirunal Institute  
of Medical Science and Technology  
Satelmond Palace, Poojapura P.O  
**Thiruvananthapuram 695 012**  
Tel (Off): 0471-2520208, Fax: 0471-2341814  
ranjtd@hotmail.com

Kumary T V (LMB1173)  
Division of Implant Biology  
BMT Wing, Sree Chitra Tirunal Institute  
of Medical Science and Technology  
Satelmond Palace, Poojapura P.O  
**Thiruvananthapuram 695 012**  
Tel (Off): 0471-2520261  
Email: tvkumary@yahoo.com

Mercy T D (LMB1176)  
LECD/ESG TC 13/98  
Room No. 208, Energy Pallimukki  
Systems, INSTEF  
Vikram Sarabhai Space Centre, Pettah  
**Thiruvananthapuram 695 024**  
Tel (Off): 0471-2562584  
Email: td\_mercy@vssc.gov.in

Rajan T P D (LMB1179)  
Materials and Minerals Division  
National Institute for Interdisciplinary  
Science and Technology,  
CSIR Industrial Estate P.O  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515327  
Fax: 0471-2491712  
Email: tpdrajan@niist.res.in

Nobel Tomar Antil (LMB1162)  
Department of Chemistry  
University of Delhi  
**Delhi 110 007**  
09311787932  
Email: ntomar@chemistry.du.ac.in

Honey John (LMB1165)  
Indian Institute of Space Science and  
Technology, DOS, ISRO (P.O) Thumba  
**Thiruvananthapuram 695 022**  
Tel (Off): 0471-2563480  
Email: honey@iist.ac.in

Prabha D Nair (LMB1168)  
BMT Wing, Sree Chitra Tirunal Institute  
of Medical Science and Technology  
Poojapura P.O  
**Thiruvananthapuram 695 012**  
Tel (Off): 0471-2520242, Fax: 0471-234814  
Email: pdnair49@gmail.com

Niranjan Dattatraya Khambete (LMB1171)  
BMT Wing, Sree Chitra Tirunal Institute  
of Medical Science and Technology,  
Satelmond Palace Poojapura P.O  
**Thiruvananthapuram 695 012**  
Tel (Off): 0471-2520283, 0471-2341814  
Email: niranjan@sctimst.ac.in

Lizymol P P (LMB1174)  
Dental Products Lab, BMT Wing, Sree  
Chitra Tirunal Institute of Medical  
Science and Technology, Satelmond  
Palace, Poojapura P.O  
**Thiruvananthapuram 695 012**  
Tel (Off): 0471-2520311  
Email: lizymol@rediffmail.com

Bibin John (LMB1177)  
Lithium Ion and Fuel Cell Division  
ESG/PCM, INSTEF, Vikram Sarabhai  
Space Centre, Pettah  
**Thiruvananthapuram 695 022**  
Tel (Off): 0471-2562866  
Email: bibin\_john@vssc.gov.in

Satyajit Vishnu Shukla (LMB1180)  
Ceramic Technology Department  
Materials and Minerals Division  
National Institute for Interdisciplinary  
Science and Technology  
CSIR Industrial Estate P.O  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515282, Fax: 0471-2491712  
Email: satyajit\_shukla@csrltrd.res.in

Srinivasan A (LMB1181)  
MMD, National Institute for  
Interdisciplinary Science and  
Technology, CSIR, Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515248  
Email: vasansrini\_72@rediffmail.com

Deepa J P (LMB 1184)  
National Institute for Interdisciplinary  
Science and Technology  
CSIR Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515327  
Email: deepsjp@gmail.com

Praseeda S Nair (LMB1187)  
National Institute for Interdisciplinary  
Science and Technology  
CSIR Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515370  
Email: praseedasn@gmail.com

Anup Atul Kale (LMB1190)  
Lab 221, Physiccal and Materials  
Chemistry Division, National Chemical  
Laboratory, Pashan Road  
**Pune 411 007**  
Tel (Off): 020-25902722  
Fax: 020-25902636  
Email: anupakale@gmail.com

Yatendra Singh Chaudhary (LMB1193)  
Colloids and Materials Chemistry  
Department, Institute of Minerals and  
Materials Technology, CSIR  
**Bhubaneswar 751 013**  
Tel (Off): 0674-2581635 Ext. 248  
Email: yschaudhary@gmail.com

Mrityunjay Hazra (LMB1197)  
Defence Metallurgical Research  
Laboratory  
**Kanchanbagh P.O**  
Hyderabad 500 058

Latesh Khanderao Nikam (LMB1200)  
Datta Sada, Indrayani Nagar, Alandi  
**Pune 412 105**  
Tel (Off): 020-27282618  
Email: latesh.nikam@gmail.com

Sundararajan Mayappan (LMB1182)  
BSMR, MMD, National Institute for  
Interdisciplinary Science and  
Technology, CSIR, Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515250  
Email: rajanmsundar77@yahoo.com

Resmi V G (LMB1185)  
National Institute for Interdisciplinary  
Science and Technology  
CSIR Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Email: resmiviswanadhan@gmail.com

Nallaperumal M (LMB1188)  
SOG, National Institute for  
Interdisciplinary Science and  
Technology, CSIR, Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2562591, Fax: 0471-2562042  
Email: nallaperumal.m@gmail.com

Haribhau Mohan Gholap (LMB1191)  
Department of Physics  
Furgusson College  
**Pune 411 004**  
Tel (Off): 020-25675960  
Fax: 020-25675960  
Email: hmgholap@yahoo.co.in

Moorthy Hema Sundara Vemuru (LMB1194)  
Department of Electronics and  
Communications, Manipal Institute of  
Technology, Manipal University  
**Manipal 576 104**  
Tel (Off): 0820-2924821, Fax: 0820-2571071  
Email: vhsmoorthy@gmail.com

Milind Vyankatesh Kulkarni (LMB1198)  
Centre for Materials for Materials  
Technology, Panchawati  
Off Pashan Road, **Pune 411 008**  
Tel (Off): 020-25898390, Fax: 020-25898180  
Email: milindcmet@yahoo.com

Sreeja Kumari S S (LMB1183)  
Materials and Minerals Division  
National Institute for Interdisciplinary  
Science and Technology  
CSIR Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515327  
Email: sreejakumariss@gmail.com

Mahesh V P (LMB1186)  
National Institute for Interdisciplinary  
Science and Technology  
CSIR Industrial Estate P.O  
Pappanamcode  
**Thiruvananthapuram 695 019**  
Tel (Off): 0471-2515370  
Email: mahesanasari@gmail.com

Tushar Chandrakant Jagadale  
(LMB1189)  
Department of Physics  
University of Pune, Ganeshkhind  
**Pune 411 007**  
Tel (Off): 020-25601310  
Email: tusharjagdale@gmail.com

Ashish Prabhakar Yengantiwar  
(LMB1192)  
Department of Physics  
Furgusson College  
**Pune 411 004**  
Tel (Off): 020-25675960, Fax: 020-25675960  
Email:  
ashish\_yengantiwar@indiatimes.com

Suman Kushwaha (LMB1195)  
Department of Chemistry  
Faculty of Science  
Banaras Hindu University  
**Varanasi 221 005**  
Email: kushwahasuman@gmail.com

Sanjay Krishnaji Apte (LMB1199)  
Centre for Materials for Materials  
Technology, Panchawati  
Off Pashan Road, **Pune 411 008**  
Tel (Off): 020-25899273  
Email: sanjayk\_apte@yahoo.co.in

### Annual Member

Suman Kushwaha (AMB 206)  
Department of Chemistry  
Faculty of Science, Banaras Hindu University  
**Varanasi 221 005**  
Email: kushwahasuman@gmail.com

## Honorary Members-2009

Prof. Harry Bhadeshia  
Tata Steel Professor of Metallurgy  
Department of Materials Science and Metallurgy  
University of Cambridge  
Pembroke Street, Cambridge CB2 3QZ  
**London**  
Telefax: +44 (0) 1223 334301  
Email : hkdb@cam.ac.uk

Prof. Yasuhiro IWASAWA  
Department of Applied Physics and Chemistry  
The University of Tokyo  
Hongo, Bunkyo-ku, Tokyo - 113-0033  
**Japan**  
Tel: +81-042-443-5921  
Fax: +81-042-443-5921  
E-mail: iwasawa@pc.uec.ac.jp

## CALENDAR OF EVENTS

(JULY 2009 - JUNE 2010)

<p><b>July 13-17, 2009</b>, QIP Short course on “Nanoscience and Nanotechnology”, Dr.Kanhaiya Lal Yadav, Associate Professor, Department of Physics, Centre for Nanotechnology, Indian Institute of Technology, Roorkee-247667, Uttaranchal, Ph-91-1332- 285744 (Office), 285166 (R); Fax-91-1332-273560, Mobile: 09897647100, Web Page: <a href="http://www.geocities.com/klyphysics">http://www.geocities.com/klyphysics</a></p>
<p><b>September 9-11, 2009</b>, The 5<sup>th</sup> conference of the Asian Consortium on Computational Materials Science, for more details refer to the webpage: &lt;<a href="http://iop.vast.ac.vn/theor/conference/accms5/">http://iop.vast.ac.vn/theor/conference/accms5/</a>&gt;</p>
<p><b>September 14-16, 2009</b>, The Fourth Asian Particle Technology Symposium (APT 2009), for more details refer to the website &lt;<a href="http://www.ap2009.org">www.ap2009.org</a>&gt;</p>
<p><b>September 20-25, 2009</b>, ICAM 2009, 11<sup>th</sup> International Conference on Advanced Materials, Rio de Janiero, Brazil, for more details visit website : &lt;<a href="http://www.icam2009.com">www.icam2009.com</a>&gt;</p>
<p><b>September 22-25, 2009</b>, Homi Bhabha Centenary BRNS-GND University Workshop on Molecular/Organic Electronic Devices (MOED-2009), Dr. D.K. Aswal, Technical Physics and Prototype Engineering Division, Bhabha Atomic Research Center, Mumbai 400085, Tel.:91-22-25 59 38 38, Mobile: 98 19 54 53 01, Email: <a href="mailto:dkaswal@yahoo.com">dkaswal@yahoo.com</a></p>
<p><b>October 11-14, 2009</b>, International Conference on Sol-Gel Processes for Advanced Ceramics, Dr. T G Srinivasan, Convener, SGPAC-2009, Indira Gandhi Cente for Atomic Research, Kalpakkam, Email: <a href="mailto:sgpac2009@gmail.com">sgpac2009@gmail.com</a>, <a href="mailto:tgs@igcar.gov.in">tgs@igcar.gov.in</a>, <a href="mailto:vjram@igcar.gov.in">vjram@igcar.gov.in</a>, <a href="mailto:nkumar@barc.gov.in">nkumar@barc.gov.in</a></p>
<p><b>October 12-15, 2009</b>, Second World Materials Summit on Advanced Materials in Energy Applications and Sustainable Society Development, Suzhou, China, contact: Chinese Materials Research Society, Tel: 86-10-6847-5052, Fax: 86-10-6872-2033, Email: <a href="mailto:yfhan@buaa.edu.cn">yfhan@buaa.edu.cn</a>, <a href="mailto:qfeng@ski.ustb.edu.cn">qfeng@ski.ustb.edu.cn</a>, <a href="mailto:chunrong0625@sina.com.cn">chunrong0625@sina.com.cn</a></p>
<p><b>November 5-6, 2009</b>, National Conference on Advanced Manufacturing Techniques, Mr. Navdeep Malhotra, Convener, NCAMT 2009, School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra 182 320, Jammu, Tel: 01991-285524, 285535 Ext. 2352, Fax: 01991-285694, 285573, Email: <a href="mailto:ncamt.nm@smvdu.ac.in">ncamt.nm@smvdu.ac.in</a>, Website: <a href="http://www.smvdu.ac.in">www.smvdu.ac.in</a></p>
<p><b>December 13-17, 2009</b>, The International Conference on Electroceramics, ICE 2009, Prof. R P Tandon, Department of Physics and Astrophysics, Room No. 71, New Extension Building, University of Delhi, Delhi, New Delhi 110 007, Mobile: +91.9818229608, Phone Office: +91.11.27667725 Extn. 1367, Email: <a href="mailto:ice2009.du@gmail.com">ice2009.du@gmail.com</a>, Website: <a href="http://ice2009.in/">http://ice2009.in/</a></p>
<p><b>December 15-19, 2009</b>, Fifteenth International Workshop on the Physics of Semiconductor Devices, The Secretary, XV IWPSD, Solid State Physics Laboratory, Lucknow Road, Delhi 110 054, Tel: 011-23903474, Fax: 011-23913609, Email: <a href="mailto:secretary@iwpsd.net">secretary@iwpsd.net</a>, <a href="mailto:chairman@iwpsd.net">chairman@iwpsd.net</a></p>
<p><b>June 7-10, 2010</b>, The 9<sup>th</sup> Asia Pacific Conference on Materials Processing, for further details refer to the website <a href="http://apcmp2010.unsw.edu.au/">http://apcmp2010.unsw.edu.au/</a></p>

**Members are requested to give information about the conferences/symposia/workshops they are organizing well in advance so that the same can be inserted in the “calendar of events”**

# AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 20 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, 2009 is:

<b>Life Members</b>	<b>:</b>	<b>2296</b>
<b>Annual Members</b>	<b>:</b>	<b>03</b>
<b>Honorary members</b>	<b>:</b>	<b>154</b>
<b>Patron members</b>	<b>:</b>	<b>83</b>

## Awards and Honours

### International Award for Materials Science and Technology

This prize is awarded once in 2 years.

Prof. CNR Rao, JNCASR, Bangalore (2009)

### Distinguished Materials Scientist of the Year 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)  
Prof. N Kumar (2006)  
Dr. V K Aatre (2007)  
Dr. S Banerjee (2008)  
Dr. Baldev Raj (2009)

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

This prize is awarded once in three years.

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)  
Dr. J V Yakhmi (BARC, Mumbai) (2008)

### MRSI Distinguished Lecturership Award

This prize is awarded once in 2 years.

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)  
Dr. A K Singh (NAL, Bangalore) (2007-2008)  
Dr. R P Singh (Pune) (2009-2010)

### 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)  
Prof. A K Shukla (IISc, Bangalore & CECRI, Karaikudi) (2006)  
Dr. G Sundararajan (ARC-I, Hyderabad) (2006)  
Prof. M K Surappa (IISc, Bangalore) (2007)  
Dr. C S Sundar (IGCAR, Kalpakkam) (2007)  
Dr. K S Narayan (JNCASR, Bangalore) (2008)  
Prof. V Ramgopal Rao (IIT-Mumbai) (2008)  
Dr. C P Sharma, (SCTIMST, Thiruvananthapuram) (2009)  
Dr. H S Maiti, (CGCRI, Kolkata) (2009)

### **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 290 Medals have been awarded. The MRSI Medal winners for the years 1990 to 2009 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., Bangalore  
Dr. C. G. Krishnadas Nair, HAL, Bangalore

#### **1993**

Dr. D. Ganguli, CGCRI, Kolkata  
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  
Dr. A. K. Chatterjee, ACC Ltd, Thane  
Prof. O. Prabhakar, IIT, Chennai  
Dr. S. L. Mannan, IGCAR, Kalpakkam  
Prof. K. V. S. Rama Rao, IIT, Chennai  
Dr. C. Ganguly, BARC, Mumbai  
Dr. R. B. Subramanyam, DMRL, Hyderabad  
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  
Prof. S. K. Biswas, IISc, Bangalore  
Dr. R. N. Ghosh, NML, Jamshedpur  
Prof. V. V. P. Kutumba Rao, BHU, Varanasi  
Dr. S. K. Mitra, Tata Steel, Jamshedpur  
Dr. T. S. Radhakrishnan, IGCAR, Kalpakkam  
Dr. (Mrs) G. Rohini Devi, DRDL, Hyderabad  
Dr. C. S. Sundar, IGCAR, Kalpakkam  
Prof. M. S. Hegde, IISc, Bangalore  
Prof. H. L. Bhat, IISc, Bangalore  
Dr. D. Bhattacharya, IIT, Kharagpur  
Dr. Sudhir S. Kulkarni, NCL, Pune  
Dr. C. Manohar, BARC, Mumbai  
Prof. A. K. Pal, IACS, Kolkata  
Dr. (Mrs) Indira Rajgopal, NAL, Bangalore  
Dr. C. P. Sharma, SCTIMST, Thiruvananthapuram  
Prof. S. V. Suryanarayana, OU, Hyderabad

#### **1995**

Prof. S. C. Agarwal, IIT, Kanpur  
Dr. A. K. Gupta, NPL, New Delhi  
Prof. T. R. N. Kutty, IISc, Bangalore  
Prof. L. M. Manocha, S. P. University, Vallabh Vidyanagar

Dr. T.K. Mukherjee, BARC, Mumbai  
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  
Dr. V.S. Raghunathan, IGCAR, Kalpakkam  
Prof. S.P. Sengupta, IACS, Kolkata  
Prof. Shamsuddin, BHU, Varanasi

#### 1996

Dr. B.M. Arora, TIFR, Mumbai  
Prof. A K Raychaudhuri, IISc, Bangalore  
Dr. A.K. Grover, TIFR, Mumbai  
Dr. E.V. Sampath Kumar, TIFR, Mumbai  
Dr. S. A. Shivashankar, IISc, Bangalore  
Dr. Subhash Chandra, NPL, Pune  
Dr. Vikram Jayaram, IISc, Bangalore  
Dr. Vijay Kumar, IGCAR, Kalpakkam  
Dr. Arun Umarji, IISc, Bangalore  
Dr. D. Bahadur, IIT, Mumbai  
Prof. T. Nagarajan, Madras University, Chennai  
Prof. R G Sharma, NPL, New Delhi  
Prof. R. P. Singh, IIT, Kharagpur  
Dr. K. Vijayamohanan, NCL, Pune  
Prof. U. V. Varadaraju, IIT, Chennai

#### 1997

Dr. G. Banerjee, CGCRI, Kolkata  
Dr. K. Bhanu Sankara Rao, IGCAR, Kalpakkam  
Dr. A. Jayakrishna, SCTIMST, Thiruvananthapuram  
Dr. V. N. Krishnamurthy, VSSC, Thiruvananthapuram  
Dr. N. G. Nair, IIT, Chennai  
Dr. M. C. Pandey, DMRL, Hyderabad  
Dr. Rameshwar Jha, TISCO, Jamshedpur  
Prof. M. K. Surappa, IISc, Bangalore  
Dr. B P Sharma, BARC, Mumbai  
Dr. B. K. Godwal, BARC, Mumbai  
Prof. T. N. Guru Row, IISc., Bangalore  
Prof. S. B. Krupanidhi, IISc., Bangalore  
Dr. B. M. Mandal, IACS, Kolkata  
Dr. K. S. Narayan, JNCASR, Bangalore  
Prof. R. Pinto, TIFR, Mumbai  
Prof. V. D. Vankar, IIT, New Delhi  
Prof. V. N. Rajasekharan Pillai, M G University Kottayam

#### 1998

Dr. A.K. Jha, RRL, Bhopal  
Prof. B. Viswanathan, IIT, Chennai  
Dr. Neeraj Khare, NPL, Delhi  
Dr. (Ms) Prabha R Chatterjee, ICT, Hyderabad  
Dr. P.R. Vasudeva Rao, IGCAR, Kalpakkam  
Prof. S.N. Kaul, Central University, Hyderabad  
Dr. G. Malakondaiah, DMRL, Hyderabad  
Dr. Om Prakash, BHU, Varanasi  
Dr. Prabha D Nair, SCTIMST, Thiruvananthapuram  
Dr. P.S. Goyal, BARC, Mumbai  
Mr. K.S. Ghosh, TISCO, Jamshedpur  
Dr. K.B.R. Varma, IISc, Bangalore  
Dr. T. Bandyopadhyaya, CGCRI, Kolkata

#### 1999

Dr. R Balasubramanian, IIT Kanpur  
Dr. G V Kulkarni, JNCASR, Bangalore  
Dr. Navin Chand, RRL, Bhopal  
Dr. S K Ray, IGCAR, Kalpakkam  
Dr. K Sreenivas, SCTIMST, Thiruvananthapuram  
Dr. A Venkateswara Rao, Shivaji University Kolhapur  
Dr. Santanu Bhattacharya, IISc, Bangalore  
Dr. M K Banerjee, BEC, Bengal  
Dr. S Natarajan, JNCASR, Bangalore  
Dr. T Rajasekharan, DMRL, Hyderabad  
Dr. S M Sharma, BARC, Mumbai  
Dr. Swati Ray, IACS, Kolkata  
Dr. GVS Sastry, BHU, Varanasi

#### 2000

Dr. R Bhattacharya, NPL, New Delhi  
Prof. Atul Choksi, IISc, Bangalore  
Dr. G P Das, BARC, Mumbai  
Dr. S C Gupta, BARC, Mumbai  
Dr. Y Hariharan, IGCAR, Kalpakkam  
Prof. I Manna, IIT, Kharagpur  
Prof. S N Ojha, BHU, Varanasi  
Dr. A R Raju, JNCASR, Bangalore  
Dr. T G Ramesh, NAL, Bangalore  
Prof. M K Sanyal, SINP, Kolkata  
Prof. Ajay Sood, IISc, Bangalore  
Dr. A K Suri, BARC, Mumbai  
Dr. V K Wadhawan, CAT, Indore

#### 2001

Shri. Chintamani, NFC, Hyderabad  
Dr. A Ghosh, IACS, Kolkata  
Dr. Gurnam Singh, CAT, Indore  
Prof. R Nagarajan, TIFR, Mumbai  
Dr. G J Prasad, BARC, Mumbai  
Dr. K Sheela Ramasesha, NAL, Bangalore  
Dr. B Viswanathan, IGCAR, Kalpakkam  
Dr. G K Dey, BARC, Mumbai  
Dr. A Govindaraj, SSCU, IISc, Bangalore  
Dr. M Jayabalan, SCTIMST, Thiruvananthapuram  
Dr. S K Pabi, IIT, Kharagpur  
Dr. N Ramakrishnan, DMRL, Hyderabad  
Dr. T Ramasami, CLRI, Chennai  
Dr. K G Satyanarayana, RRL, Thiruvananthapuram  
Dr. O M Sreedharan, IGCAR, Kalpakkam

#### 2002

Prof. Ashok Misra, IIT, Bombay, Mumbai  
Dr. Bhuvaneshwar G S, SCTIMST, Thiruvananthapuram  
Dr. Chaplot S L, BARC, Mumbai  
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

**2006**

Dr. Amlan J Pal, IACS, Kolkata  
 Dr. Ganguli A K, IIT, Delhi  
 Dr. George Thomas K, RRL, Thiruvananthapuram  
 Prof. Kashyap B P, IIT, Mumbai  
 Dr. Muraleedharan Nair K G, IGCAR, Kalpakkam  
 Dr. Patra A. CGCRI, Kolkata  
 Dr. Poonam Tandon, Lucknow University, Lucknow  
 Prof. Sampath S, IISc, Bangalore  
 Dr. Sharada Srinivasan, NIAS, Bangalore  
 Dr. Shivaprasad, S M, NPL, New Delhi  
 Prof. Siddartha Das, IIT, Kharagpur  
 Dr. Srikanth S, NML, Chennai  
 Dr. Swapan Pati K, JNCASR, Bangalore  
 Dr. Upendra Natarajan, NCL, Pune

**2007**

Dr. Ajayaghosh A, RRL, Thiruvananthapuram  
 Dr. Ashim Kumar Mukhopadhyay, DMRL, Hyderabad  
 Dr. Ashok M Raichur, IISc, Bangalore  
 Dr. Basu R N, CGCRI, Kolkata  
 Dr. Chacko Jacob, IIT Kharagpur  
 Dr. Chandrabhas N, JNCASR, Bangalore  
 Dr. Parthasarathi G, NGRI, Hyderabad  
 Dr. Pathak L C, NML, Jamshedpur  
 Prof. Ranganathan R, SINP, Kolkata  
 Dr. Subrata Chatterjee, Bengal Engg & Sci University, Howrah  
 Dr. Sujeet Chaudhary, IIT-Delhi, New Delhi

**2008**

Dr. D P Amalnerkar, C-MET, Pune  
 Prof. Arun Chattopadhyay , IIT, Guwahati  
 Dr. Ashok Kumar Ray, NML, Jamshedpur  
 Dr. Dilshad Akhtar, DMRL, Hyderabad  
 Dr. R K Kotnala , NPL, New Delhi  
 Prof. Y N Mohapatra , IIT-Kanpur  
 Prof. N K Mukhopadhyay, BHU, Varanasi  
 Prof. S K Ray , IIT, Kharagpur  
 Dr. P Sujatha Devi , CGCRI, Kolkata  
 Dr. Suresh Das , RRL, Thiruvananthapuram  
 Dr. A K Tyagi , IGCAR, Kalpakkam  
 Dr. S M Yusuf , BARC, Mumbai

**2009**

Dr. Absar Ahmad, National Chemical Laboratory, Pune  
 Prof. A Basu Mallick, BESU, Shibpur, Howrah  
 Dr. S K Bhaumik, NAL, Bangalore  
 Dr. Karabi Das, IIT, Kharagpur  
 Dr. T Prem Kumar, CECRI, Karaikudi  
 Prof. A Sundaresan , JNCASR, Bangalore  
 Dr. S Sethuraman, Center for Nanotechnology & Advanced Biomaterials, Thanjavur  
 Dr. Shantikumar Nair, Amrita Institute of Nanoscience, Kochi  
 Dr. M T Sebastian, NIIST, Trivandrum  
 Prof. Subodh Kumar De, IACS, Kolkata  
 Prof. Subhasis Ghosh, J N University, New Delhi  
 Dr. Tata Narasinga Rao, ARC-I, Hyderabad  
 Dr. B V R Tata, IGCAR, Kalpakkam  
 Prof. Uday Maitra, IISc, 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 Pt5La, Pt5Ce, Pt5Pr, Pt5Tb and Pt5Tm, 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 Spinels” 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 <sup>181</sup>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.

**2006:**

‘Polyvinyl alcohol-cellulose composite: a taste sensing material’ by Sarmishtha Majumdar and Basudam Adhikari, Materials Science Centre, Indian Institute of Technology, Kharagpur 721 302 Bulletin of Materials Science, Vol (28), No. 7, December 2005, pp. 703-712.

**2007:**

‘Functional finishing in cotton fabrics using zinc oxide nanoparticles’ by A Yadav, Virendra Prasad, AA Kathe, Sheela Raj, Deepti Yadav, C Sundaramoorthy and N Vigneshwaran, Nanotechnology Group, Central Institute for Research on Cotton Technology, Mumbai 400 019, Bulletin of Materials Science, Vol (29), No. 6, November 2006, pp. 641-645.

**2008:**

‘Effect of size of copper nanoparticles on its catalytic behaviour in Ullman reaction’ by Mohd. Samim, N K Kaushik and Amarnath Maitra, Department of Chemistry, University of Delhi, Delhi 110 007, Bulletin of Materials Science, Vol 30 (2007) p.535

**2009:**

‘Studies on Nanocrystalline Zinc Coating’ by H B Muralidhara and Y Arthoba Naik, Department of PG Studies and Research in Chemistry, Kuvempu University, Shankaraghatta, Bulletin of Materials Science, Volume 31, (2008), pp.585.

**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  $(1-x)\text{Pb}[(\text{Mg}_{1/3}, \text{Nb}_{2/3})\text{O}_3]_x\text{PbTiO}_3$  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  $\text{PEG-LiClO}_4$  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

'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

'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

#### 2006:

'Nanotechnology via Solution Chemistry' by Shobhit C and Khanna P K, C-MET, Pune

'Superhydrophilic and Photocatalytic properties of Sol-Gel  $\text{TiO}_2$  Thin Films on Glass' by Mahata S and Kundu Debtosh, CGCRI, Kolkata

'Observation of  $\text{TO}_1$  soft mode in  $\text{SrTiO}_3$  thin films by THZ-time domain spectroscopy' by Misra M, University of Lucknow, Lucknow, Kotani K, Kawayama I, Murakami H and Tonouchi M, Osaka University, Japan

'Stabilization of high temperature form of Orthorhombic  $\text{CaCO}_3$  using reserve Micelles: source of Calcium Oxide Nanoparticles' by Ahmed J, Vaidya S, Ahmad T and Ganguli A K, Dept. of Chemistry, IIT- Delhi, New Delhi

'Studies on the performance of Cardanal based adhesives on different Substrates' by V Lity Allen, and Thachil Eby Thomas, Cochin University of Science and Technology, Kochi

'A new phase boundary in the phase diagram of  $(1-x)[\text{Pb}(\text{Mg}_{1/3}, \text{Nb}_{2/3})\text{O}_3]_x\text{PbTiO}_3$ ' by Singh AK, Singh SP and Pandey D, BHU, Varanasi

#### 2007:

'Patterned silicon wafer for nanostructure growth' S K Panda and C Jacob, Materials Science Centre, Indian Institute of Technology, Kharagpur.

'Characterization of structural and magnetic transitions in Ni-Mn-Ga Heusler type alloys' Ranjan Kumar Singh, R Gopalan, R P Mathur, P Ghosal, V Chandrasekaran, Defence Metallurgical Research Laboratory, Hyderabad and M Shamsudin, Department of Metallurgical Engineering, Banaras Hindu University, Varanasi.

'Controllable tungsten oxide thin film nanostructures as cathodes for electrochromic smart windows' M Deepa, Govind, S M Shivaprasad, Shahzada Ahmad and A K Srivastava, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi.

'Ultra high purification of gallium through multi-step processing for opto-electronic device applications' U Rambabu, N R. Munirathnam and T L Prakash, Centre for Materials for Electronics Technology, Hyderabad.

'Preparation and characterization of b-PVDF films' Anjana Jain, Kalyan Sundaram, V Vedha Prakash, National Aerospace Laboratories, Bangalore and H.H. Kumar, ARDE, Pashan, Pune

'Effect of  $\text{M}^{\text{III}}$  acetylacetonate complexes on the hydrophilicity of nanocrystalline sol-gel derived  $\text{TiO}_2$  films by dip-coating technique' Ravi Ranjan Pandey, C P Sharma, K K Saini, Vinod Tanwar, Chandra Kant, Davinder Singh, Balbir Singh, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi and Man Singh, Department of Chemistry, Chemistry Research Lab, Deshbandhu College, University of Delhi, New Delhi.

#### 2008:

'Ultra High Purity Gallium (99.99999 % / 7N) for Opto and Micro Electronics Device Applications – An Indigenous Effort' U Rambabu and T L Prakash, C-MET, Hyderabad

'TG-DT Analysis for Carbon Assisted Synthesis of  $\text{C:MgB}_2$ ' B B Sinha, S C Chougale and S H Pawar, Shivaji University, Kolhapur

'Optical and Switching Studies on Near-Stoichiometric  $\text{Nd:Zn:LiNbO}_3$  Crystals' J N Babu Reddy, K Ganesh Kamath, H L Bhat and Suja Elizabeth, Indian Institute of Science, Bangalore

'Role Head Group Structure in Regulating the Packing Density of Lipid Monolayers-Nerve Conduit Applications' K Kaladhar and C P Sharma, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram

#### 2009:

'Size induced arrest of the room temperature crystallographic structure and destabilization of the charge ordered state in  $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$  nanocrystals' Tapati Sarkar, A K Raychaudhuri and Tapan Chatterji, SN Bose National Centre for Basic Sciences, Kolkata.

'Preparation of Al-Si graphite particulate reinforced composite through stir coating method and their structure property correlation' G Raja Ram, M Thirumurugan, S Kumaran and T Srinivas Rao, National Institute of Technology, Trichy."

## PUBLICATIONS

“A novel approach for the synthesis of silicalite-1 Zeolite seed crystals and thin films” M K Naskar, D Kundu and M Chatterjee, Central Glass and Ceramic Research Institute, Kolkata.

“ $\beta$ -SiC/SiO<sub>2</sub> nanocables synthesized by APCVD technique”, S K Panda, J Sengupta and C Jacob, Indian Institute of Technology, Kharagpur.

“Influence of electron beam irradiation on cationic migration and structural morphology of CuCoFe<sub>2</sub>O<sub>4</sub> nanoparticles” M Balaji and D Pathinettam Padiyan, Manonmaniam Sundaranar University, Tirunelveli.

“Resonance energy transfer between dye and QD's” Tapasi Sen, Krishna Kanta Haldar and Amitava Patra, Indian Association for the Cultivation of Science, Kolkata.

“Unique features of biomimetics as a method for coating biomedical implants by bone mineral (hydroxyapatite)” Jui Chakraborty, Manjush Chakraborty, Poulomi Bose, Tarak Das and Debabrata Basu, Central Glass and Ceramic Research Institute, Kolkata.

“Synthesis of Au@Pd nanoparticles in Alumina Sols” Debrina Jana, Anirban Dandapat and Goutam De, Central Glass and Ceramic Research Institute, Kolkata.

“Coalescence of Thiol-capped Au nanoparticles in a polymer matrix”, Nupur Biswas and Alokmay Datta, Saha Institute of Nuclear Physics, Kolkata.

“Visible photoluminescence from silicon and silicon oxide core-shell nanocomposites” Tuhin Shuvra Basu, Arpita Jana, Biplab Biswas and Mallar Ray, Bengal Engineering and Science University, Shibpur, Howrah.

## 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.

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 907 pages of scientific articles in 2008. The BMS is available on the internet (<http://www.ias.ac.in/materci/>). Starting January 2007, the Bulletin of Materials Science is co-published with Springer. Along with hyperlinks to other relevant sites, Springer provides access to the content of the Bulletin worldwide in an online full-text database on Springer link ([www.springerlink.com](http://www.springerlink.com)).

MRSI is also bringing out the MRSI Newsletter 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 Drs. K K Nanda and Satish Patil.

The MRSI is continuously updating the electronic membership directory. This can be accessed through the website [www.igcar.ernet.in/mrsi](http://www.igcar.ernet.in/mrsi). This is an interactive website for interactions amongst its members interested in science and technology of materials.

## 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, MRS Mexico in 2001. No conference was held in 2002. MRS Singapore organized the ICA in 2003, MRS Taiwan in 2004. No conference was held in 2005 and MRS Korea organized in 2006.

MRSI hosted the IUMRS-ICA-98 conference in Bangalore during October 13-16, 1998 which was highly successful.

The prestigious conference IUMRS-ICAM was held in Bangalore, during October 8-13, 2007. MRSI Newsletter of October 2007 issue contains a report on the above conference.

**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, former General 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 55 members. Dr. P Ramachandra Rao, one of the Vice Presidents

of MRSI is the current President of APAM India Chapter and Prof. O N Srivastava, BHU, Varanasi serves as the Secretary.

## **HONORARY MEMBERS**

*(elected during the period 1990-2009)*

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

- Ajayan P M**, Rice University, USA (2008)  
**Akihisa Inoue**, Tohoku University, Japan, (2001)  
**Alan Windle**, University of Cambridge, U.K. (2003)  
**Alario-Franco M A**, Ciudad Universitaria, Spain, (1992)  
**Aleksandrov Kirill S**, L V Kirensky Institute of Physics, Russia, (1992)  
**Amelinckx S**, RUCA Dept. of Physics, Belgium, (1991)  
**Amiya Mukherjee**, University of California, U.S.A., (1997)  
**Andrade Joseph D**, MEB, U.S.A., (1996)  
**Angell C A**, Tempe, Arizona, U.S.A., (1999)  
**Armstrong Ronald W**, Univ. of Maryland, U.S.A., (1995)  
**Arsenault R J**, University of Maryland at College Park, U.S.A., (1995)  
**Ashby M F**, University of Cambridge, U.K., (1990)  
**Baglin John E E**, IBM Almaden Research Center, U.S.A., (1990)  
**Bentini G C**, CNR-Via GOBETTI, Italy, (1992)  
**Blinc R**, J. Stefan Institute, Slovenia, (1992)  
**Bonfield William**, University of Cambridge, U.K., (1993)  
**Brandon D G**, Lehigh University, U.S.A., (1993)  
**Cahn John W**, National Institute of Standards and Technology, U.S.A., (1993)  
**Cantor Brian**, University of Oxford, U.K., (1996)  
**Catlow C R A**, Davy Faraday Laboratory, The Royal Institution, U.K., (1996)  
**Chakravorthy B K**, CNRS Lepes, 25 Avenue De Martyrs, France, (1991)  
**Chang R P H**, Northwestern University, U.S.A., (1990)  
**Chaudhari Praveen**, Watson Research Centre of Physical Sciences, U.S.A., (1990)  
**Cheetham A K**, University of California, U.S.A., (1994)  
**Chon Min Che**, 6-28, Shinkyodong Chongnoku South, Korea, (1992)  
**Chowdari BVR**, National University of Singapore, Singapore 119260, (2001)  
**Clearfield A**, Texas A & M University, U.S.A., (1996)  
**Cottrell Alan**, University of Cambridge, U.K., (1992)  
**Cyrot-Lackman Francois**, IEPES-CNRSC, BP 166X-380, France, (1991)  
**Day P**, The Royal University of Great Britain, U.K., London, (1994)  
**Dayananda M A**, Purdue University, U.S.A., (1997)  
**Disalvo F J**, Baker Laboratory, U.S.A., (1996)  
**Doyama M**, Teikyo University of Science & Technology, Japan, (1990)  
**Edwards P P**, The University of Birmingham, U.K., (1995)  
**Ferey Gerard**, University of Versailles, France, (1998)  
**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)  
**Dresselhaus Mildred S**, Massachusetts Institute of Technology, U.S.A., (1991)  
**Fernando Lund**, CIMAT, Chile, (2004)  
**Frank Karasz**, Univ. of Massachusetts, U.S.A., (2003)  
**Fred Lange**, Univ. of California, U.S.A., (2000)  
**Frolov K V**, Russian Academy of Sciences, Russia, (1990)  
**Fujihara K**, Yokohama National University, Japan, (1996)  
**Fujshima A**, University of Tokyo, Tokyo, Japan, (1995)  
**Gatos Harry C**, Massachusetts Institute of Technology, U.S.A., (1991)  
**George M Whitesides**, Harvard University, U.S.A., (0)  
**Glasow Peter A**, D-91054, Germany, (1994)  
**Gleiter H**, Institute of Nanotechnology, Germany, (1994)  
**Gonzalez Calbet**, Universidad Complutense, Spain, (1997)  
**Goodenough John B**, Univ. of Texas (1990)  
**Granquist C G**, Uppsala Universitet, Sweden, (2001)  
**Greenblatt Martha**, RUTGERS, The State University of New Jersey, U.S.A., (1995)  
**Greenwood G W**, Univ. of Sheffield, U.K., (1997)  
**Greer A L**, Univ. of Cambridge, U.K., (2002)  
**Gschneider K A**, Iowa State University, U.S.A., (1993)  
**Hagenmuller P**, Univ. of Bordeaux I, France, (1990)  
**Harry Bhadeshia**, Univ. of Cambridge, UK (2009)  
**Heeger A J**, Institute of Organic Solids & Polymers, U.S.A., (1998)  
**Hirsch Peter**, Univ. Oxford, U.K., (1990)  
**Honig Jurgen M**, Purdue University, U.S.A., (1990)  
**Hsiao Tsechiang**, Northeast University, China, (1995)  
**Inokuchi H**, National Space Development Agency of Japan, Japan, (1999)  
**Interante L V**, Rensselaer Polytechnic, U.S.A., (1994)  
**Jack Kenneth H**, U.K., (1991)  
**Jagdish Narayan**, North Carolina State University, U.S.A., (2000)  
**Jain S C**, IMEC, Belgium, (2001)  
**Jayaraman A**, Carnegie Institution of Washington, U.S.A., (1990)  
**Kaldis E**, Laboratorium Fur Festkorperphysic, Switzerland, (1992)  
**Khabibullaev P K**, Uzbek Academy of Sciences, Uzbekistan, (1992)  
**Kitazawa Koichi**, School of Frontier Sciences, Japan, (1991)  
**Kishi T**, NIMS, Japan (2007)  
**Knut Urban**, am Institut fur Festkorperforschung, Germany, (2000)  
**Koichi Niihara**, Osaka University, Japan, (2001)  
**Koinuma H**, Tokyo Inst. of Technology, Japan, (1996)

**Kolster B H**, Wentholtweg 9, 721y EE EPSE, Netherlands, (1992)

**Kroenig M**, Fraunhofer Institute of Non-Destructive Testing, Germany, (2000)

**Kroto H W**, Univ. of Sussex, U.K, (1992)

**Kuo K H**, Chinese Academy of Sciences, China, (1992)

**Kuznetsov F A**, Institute of Inorganic Chemistry, Russia, (1990)

**Leslie Eric Cross**, The Penn State University, U.S.A, (1994)

**Li Heng-De**, Tsinghua University, China, (1990)

**Livage J**, Universite Pierre et Marie Curie 4, France, (1995)

**Lucas Jacques**, Laboratoire Verres & Céramiques, France, (2005)

**Luecke Kurt**, Selzerbeeklaan 26, 6297, HW Vaals, Netherlands, (1993)

**Mackay A L**, Univ. of London, U.K, (1993)

**Mahajan Subash**, Carnegie Mellon University, U.S.A, (1991)

**Margolin Harold**, Polytechnical University, U.S.A, (1995)

**Martin Jansen**, Germany, (2002)

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

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

**Matthew Tirrell**, Univ. of California, U.S.A, (2004)

**McHenry Michael E**, Carnegie Mellon University, 500 Forbe Ave, U.S.A, (1998)

**Merzhanov A G**, Institute of Structure Macrokinetics & Materials Science, Russia, (1997)

**Metzner Arthur B**, University of Delaware, Dept. of Chemical Engineering, U.S.A, (1991)

**Michael Klein**, Director, LSRM, Laboratory for the Study of Materials, USA, (2005)

**Mordike Barry L**, Univ. of Malta, Europe, (1991)

**Narayanamurthy V**, Harvard University, U.S.A, (1995)

**Newnham R E**, Pennsylvania State University, U.S.A, 16802, (1993)

**Nishizawa J I**, Semiconductor Research Institute, Japan, (1992)

**Ossipyan Yu A**, Russian Academy of Sciences, Russia, (1991)

**Parrinello M**, Max-Planck-Institut für Festkörperforschung, Germany, (1999)

**Patel C K N**, Pranalytical Inc, 1101 Colorado Avenue, U.S.A, (1991)

**Paul Atfield J**, The University of Edinburgh, U.K, (2006)

**Pouchard M**, Membre de Institut Universitaire de France, France, (1994)

**Ramdas A K**, Purdue University, U.S.A, (1990)

**Rao Tummala R**, Georgia Institute of Technology, U.S.A, (1992)

**Rath Bhakta B**, Naval Research Laboratory, U.S.A, (1990)

**Raveau Benard**, University De Caen, Chimie Du Solide, Boulv Du, Marechal Juin, France, (1991)

**Roberts M W**, Cardiff University, U.K, (1994)

**Robert Honeycombe**, Cambridge University, U.K, (1992)

**Roesky H W**, Institut für Anorganische Chemie, Germany, (1997)

**Rousset A**, UMR-CNRS 5085, Universite Paul Sabatier, France, (1993)

**Roy Rustum**, The Pennsylvania State University, U.S.A, (1990)

**Ruehle M**, Max-Planck Institut für Metallforschung, (1995)

**Sellars C M**, The University of Sheffield, PO Box. 600, U.K, (1994)

**Shechtman D**, Technion, Israel, (1997)

**Shichang Zou**, Shanghai Institute of Metallurgy, Chinese Academy of Sciences, China, (1992)

**Siegel R W**, Rensselaer Polytechnic Institute, U.S.A, (1992)

**Siffert Paul**, CNRS/PHASE B.P. 20, F-67037 Strasbourg Cedex 2, France, (1990)

**Sleight A W**, Oregon State University, U.S.A, (1995)

**Smalley R E**, Rice University, U.S.A, (1992)

**Somasundaran P**, Columbia University in the City of New York, U.S.A, (1991)

**Somiya Shigeyuki**, Nishi Tokyo University, Japan, (1990)

**Subramanian M A**, Dupont Company, U.S.A, (2002)

**Sunil K Sinha**, Argonne National Laboratory, U.S.A, (2001)

**Suresh Subra**, MIT, USA (1996)

**Tanaka K**, Joint Research Center for Atom Technology (JRCAT) Japan, (1993)

**Taplin D M R**, Univ.of Plymouth, U.K, (1993)

**Tarascon J M**, Universitat Picardie, Lab. of Reactivity & Chemistry of Solids, France, (1996)

**Thomas G**, Univ. of California, U.S.A, (1994)

**Thomas J M**, The Royal Inst. of Great Britain, U.K, (1996)

**Tokura Y**, Univ. of Tokyo, Japan, (1997)

**Toshiaki Enoki**, Graduate School of Science & Engineering, Japan, (2005)

**Underhill A E**, University College of North Wales, U.K, (1995)

**Vallet Regi**, Universidad Complutense De Madrid, Spain, (1997)

**Vijh Ashok K**, Institute De Recherche, d' Hydro-Quebec (IREQ), Canada, (1991)

**Vincenzini P**, International Academy of Ceramics, Italy, (1992)

**Wasa Kiyotaka**, 2-7-27 Chiyogaoka, Japan, (1991)

**Waseda Y**, Sendai, Japan (2007)

**Welland M E**, University of Cambridge, UK (2008)

**West A R**, The University of Sheffield, U.K, (1994)

**Williams David F**, Univ.of Liverpool, U.K, (1990)

**Williams J S**, Royal Melbourne Institute of Technology, Australia, (1992)

**Wu Ping-Tien**, Asia Chemical Corp, Taiwan, (1992)

**Yacaman M J**, The University of Texas at Austin, U.S.A, (1992)

**Yan Dongsheng**, Chinese Academy of Science, China, (1990)

**Yanagida Hiroshi**, Univ.of Tokyo, Japan, (1991)

**Yoshiyuki Kawazoe**, Tohoku University, Japan, (2002)

**Yasuhiro Iwasawa**, University of Tokyo, Japan (2009)

**Zhao Z S**, 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> : Ranganathan S <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	<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>Chairmen</i> : Ashok Misra / S Banerji
15.	2004	Banaras Hindu University, Varanasi	<i>Chairman</i> : P Ramachandra Rao <i>Convenor</i> : S Lele
16.	2005	National Chemical Laboratory, Pune	<i>Chairman</i> : S Sivaram <i>Convenor</i> : K Vijayamohanan
17.	2006	University of Lucknow, Lucknow	<i>Chairman</i> : R P Singh <i>Convenor</i> : Poonam Tandon
18.	2007	National Physical Laboratory, New Delhi	<i>Chairman</i> : Vikram Kumar <i>Convenor</i> : Anil K Gupta
19.	2008	Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram	<i>Chairman</i> : G S Bhuvaneshwar <i>Convenor</i> : D S Nagesh
20.	2009	Saha Institute of Nuclear Physics, Kolkata	<i>Chairman</i> : N R Bandyopadhyay

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