MRSI Newsletter

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Carbon nanotube based computer

Miniaturization is the trend of the electronic devices. In this regard, nanostructured materials are of paramount importance. Scientists at Stanford University have unveiled the first computer processor built entirely from carbon nanotube based transistors [Shulaker et al., Nature 501 (2013) 526]. The device relies on 178 carbon nanotubes based field effect transistors each containing ~10—200 nanotubes. So far imperfections such as mis-positioned and the presence of both semiconducting and metallic carbon nanotubes were the major obstacles for transistor applications. Researchers have overcome these limitations by exploring imperfection-immune design methodology and demonstrated the first computer built using carbon nanotubes. We believe that carbon nanotube based computers will be a promising alternative to silicon in electronic devices.

K K Nanda
Editor

For more details about the activities of MRSI, members are advised to visit the society's website at

www.mrsi.org.in

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MRSI NEWSLETTER

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The MRSI Newsletter is a quarterly update published by the Materials Research Society of India. Members are requested to contribute information of interest to Materials Science community. Members can inform through the Newsletter, recognitions/awards received by them, changes in address, forthcoming events, and any interesting scientific/technological developments in the area of materials. The relevant information should be sent to the following address:

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Awards & Distinctions Conferred on Members

We are happy to report that the following members of Materials Research Society of India have received awards and distinctions shown against their names. MRSI congratulates them.

G Parthasarathy	Council Member, Indian Society of Geomatics
Ashotosh Sharma	Associate Editor, ACS Applied Materials and Interfaces
Nagaraju Kottam	Award for Teaching Excellence (2013)
G Vaitheeswaran	B M Birla Science Prize in Physics (2012)
S M Yusuf	P K Iyengar Memorial Award (2012)

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

Minutes of the 25th Annual General Meeting of MRSI

The Twenty Fifth Annual General Body Meeting of Materials Research Society of India was held on Thursday, the 13th February 2014 at the Council Chamber, Indian Institute of Science, Bangalore.

The President, Dr. G Sundararajan welcomed the members and conducted the AGM.

Prof. S B Krupanidhi, Vice President-General Secretary presented the Annual report of MRSI for the year 2013. Some aspects of the report are given below.

1. The APAM India Chapter held its meeting at Bangalore on 13th February, 2014.
2. The committee decided that there were no papers suitable for the Best paper Award for the year 2013. Hence, no paper was selected for the award.
3. The statement of accounts for the year 2012-13 and the Provisional statement as on 31.12.2013 were presented at the AGM.
4. The following scientists have been elected as Honorary Members of MRSI for the year 2014.
   i. Prof. Ram Katiyar (University of Puerto Rico, China)
   ii. Prof M Endo. (Shinshu University, Japan)
   iii. Prof. Helmut Dosch (DESY, Germany)
5. The 26th Annual General Meeting of MRSI will be held at Jaipur, during February 2015. This would be organized by Rajasthan chapter of MRSI.

The meeting concluded with a vote of thanks to the chair.

New Chapter of MRSI

A new chapter of MRSI has been formed at Jaipur named as the "**Rajasthan chapter of MRSI"**. Prof. Y K Vijay is the chapter chairman. The 26th AGM of MRSI scheduled to be held during February 2015 will be hosted by the Rajasthan chapter of MRSI at Jaipur.

REPORT ON THE 25th AGM OF MRSI

The MRSI council meeting was held in the Council Chamber of IISc followed by Annual General Body meeting and medal distribution ceremony in the Faculty Hall of IISc.. Dr. G. Sundararajan, President MRSI presented the awards to medal winners.

For the G.C. Jain Memorial lectures 6 shortlisted candidates made their presentations. The best thesis award was given to Dr. Sonal of Dayalbagh Education Institute, Agra for her lecture on "Group II-VI Semiconductor Nano-crystals for Photo and Electroluminescence Applications"

The 25th Annual General Meeting (AGM) of the Materials Research Society of India (MRSI) was held at the J N Tata Auditorium during February 12-14, 2014. Bharat Ratna Prof. C.N.R. Rao, the Founder President of MRSI & Linus Pauling Research Professor, JNCASR, Bangalore, inaugurated the AGM and addressed the gathering of materials scientists from all over the country. In his Presidential remarks, Dr. G Sundararajan highlighted the activities of MRSI. As a part of the MRSI-AGM, a theme symposium on "*Advanced Materials for Energy Applications"* was conducted, in which lectures were delivered**.**

Prior to the AGM, the Asia Pacific Academy of Materials (APAM) meeting was held on February 11, 2014 at the MRC Auditorium, IISc, Bangalore. Lectures were delivered by Professor S Ranganathan, IISc, Bangalore and Dr. Rajeev Ranjan, IISc, Bangalore. Prof. O N Srivastava, President, APAM India chapter presided over the meeting.

On 12th evening, a felicitation function was arranged by the organizers of the 25th AGM in the J N Tata Auditorium, to honour Prof. CNR Rao, on his 80th Birthday and for being conferred with the prestigious Bharat Ratna. 12 eminent scientists paid their rich tributes to Prof. Rao. A special banquet was also arranged in honour of Prof. Rao.

The whole program comprised of 22 Medal Lectures, the Distinguished Materials Scientist of the year award lecture by Prof. D Chakravorty, IACS, Kolkata, the CNR Rao Prize lecture by Prof. U Ramamurty, IISc, Bangalore, the MRSI-ICSC Superconductivity and Materials Science Senior Award by Dr. A K Tyagi, BARC, Mumbai, the MRSI-ICSC Superconductivity and Materials Science Annual Prizes by 4 eminent scientists, viz Dr. Goutam De, CGCRI, Kolkata Dr. VPS Awana, NPL, New Delhi, Dr. Shrikant V Joshi, ARCI, Hyderabad and Dr. Navin Chand, AMPRI, Bhopal. To mark the silver jubilee year of MRSI, there were 4 Silver Jubilee medal lectures delivered by Dr. Satish Ogale, NCL, Pune, Prof. G P Das, IACS, Kolkata, Dr. Pushpito K Ghosh, CSMCRI, Bhavnagar and Prof. P S Anil Kumar, IISc, Bangalore. The theme lectures were delivered by Prof. D D Sarma, IISc, Bangalore and Dr. Suresh Das, NIIST, Trivandrum.

The poster session was held on 13th wherein nearly 100 posters were displayed on different aspects of materials science. 5 Best posters were selected for the Best Poster Awards and they were announced at the concluding function

Prof. S B Krupanidhi proposed the vote of thanks. The MRSI-AGM at Bangalore, was widely appreciated for providing excellent talks on various facets of Materials Science. Overall, it was an impressive MRSI meeting.

Around 250 delegates from all over India participated in the deliberations. The 25th MRSI-AGM was a memorable one, as it marked the Silver Jubilee year of MRSI and witnessed the presence of a galaxy of outstanding scientists of our country.

Prof. S B Krupanidhi
Convener-25th AGM of MRSI

REPORT ON THE IUMRS-ICA 2013
HELD AT BANGALORE DURING DECEMBER 16-20, 2013

The 2013 International Conference in Asia (IUMRS-ICA 2013) was held during December 16-20, 2013, in Bangalore, India. The conference included plenary talks, invited talks, oral and poster presentations covering most current critical topics in materials science, and various special activities. The conference attendance was around 1250. The conference was organized by MRSI.

The program of the IUMRS-ICA-2013 consisted of 8 main themes: Electronic & Photonic Materials, Advanced Functional Materials, Energy & Green Materials, Advanced Structural Materials, Materials Modelling and Simulation, Materials for Bio / Medical applications, Materials Characterization and Clean water subdivided into 28 theme symposia. The conference received about 1350 abstracts with 5 Plenary talks, 210 invited talks, 435 oral presentations and about 700 poster presentations. Hence, it is believed that the scientists actively engaged in materials research and developments greatly benefitted in participating in this meeting and gained deeper academic insights. An industrial exhibit was also held in conjunction with the conference.

The inaugural session on the morning of December 16th 2013 jump-started the events of ICA 2013. After a traditional invocation and the lighting of a ceremonial lamp, the welcome address was delivered by Dr. G Sundarajan, President of MRSI. Prof. S.B. Krupanidhi, Vice President-General Secretary of MRSI and chair of the conference, then welcomed everyone and explained the programme of the conference. Over 1250 attendees from 39 countries participated in the conference. He also indicated that MRSI is currently one of the most active and vibrant scientific associations in India. Prof. Osamu Takai, President, IUMRS welcomed everyone and thanked MRSI for conducting the ICA 2013. Prof. C.N.R. Rao, Founder President of MRSI, then gave the inaugural remarks.

Finally, a formal vote of thanks was proposed by Prof. Anil Kumar, the co-chair of the conference.

There were five plenary lectures at this conference. The first plenary lecture of the meeting was presented by Prof. C.N.R. Rao, India on artificial photosynthesis and generation of hydrogen by water splitting.

The second Plenary lecture was by Prof. Rudolf Gross, Germany on circuit nano-electromechanics.

Dr. M Enoki delivered a lecture in place of Prof. Teruo Kishi

Prof. Soo Wohn Lee from Korea the fourth speaker delivered a talk on multi-functional photocatalytic nanomaterials for red and green tides removal.

The 28 theme symposia were conducted in a maximum of 12 parallel sessions and ran concurrently. The chairs and co-chairs of the theme symposia had arranged excellent set of overview and invited lectures. Many of the contributed papers were in the form of oral presentations. The rest of them were presented as posters distributed evenly in four poster sessions held on 16th, 17th 18th and 19th. Amongst the posters the following 35 posters were selected for the best poster awards.

BEST POSTER AWARDS

Sl.No	Title	Authors
1	Preparation of .Exfoliated GO/Metal Oxides by Graphenothermal Reduction method and. its characterization	Shaikshavali Petnikota, Sandeep Kumar Marka, M.V. Reddy, Vadali V.S.S, Srikanth, B.V.R. Chowdari
2	Evolution and defect analysis of graphene nanosheets grown by ECR-CVD	Subrata Ghosh, K.Ganesan, Shyamal R. Polaki, T.R. Ravindran, Nanda Gopala Krisna, M. Kamruddin and A.K. Tyagi

3	ZnTiO3: Synthesis, Characterization and Exclusive Visible Light Photocatalysis	Shama Perween, Biswajit Mishra and Deepa Khushalani
4	Optical properties of Nd3+:LuF3 Thin Films Grown by Pulsed Laser Deposition for Vacuum-Ultraviolet Light Source	Naoki Yoshida ,Takayuki Tsuji , Shingo Ono, Yuui Yokota, Takayuki Yanagida and Akira Yoshikawa
5	Hydrothermal synthesis and luminescence properties of ZnO nanophosphor	N. Pushpa, M. K. Kokila, B.M. Nagabhushana, H. Nagabhushana A. Jagannatha Reddy
6	Hierarchical Lotus shaped porous MnO2: Solution Route Synthesis and shape dependent improved catalytic activity	Provas Pal, Arnab Kanti Giri, Asit Baran Panda
7	Flux Grown KTiNbO5 Crystals for Removal of Metal Ions in Aqueous Solutions	H. Wagata, X. Xiao , N. Zettsu1 S. Oishi and K. Teshima
8	Honey Aided Solution Synthesis of Cu2O	Mokhtar Ali and Vadali V. S. S. Srikanth
9.	Biocompatibility Testing of Iron Oxides Synthesized under Soft Reduced Hydrothermal and Conditions	D. Shanthini, Namratha, C.S Keerthana K.. Vicas , K. Byrappa
10	In-situ Hall measurement study on In2O3 and its mechanism of NOx sensing	E. Prabhu, K.I. Gnanasekar, V. Jayaraman, T. Gnanasekaran
11	Electromechanics for study thermal properties of quantum physics and nanostructures	John P Mathew
12	Effect of Nitridation Temperature of Sapphire on Microstructural Evolution of LT GaN Nucleation Layers	G R Krishna Yaddanapudi, Sabyasachi Saha , Srinivasan Raghavan, Dipankar Banerjee
13	Tuning Magneto-structural transformation temperature in Antiperovskite Compounds	Elaine T. Dias , K. R. Priolkar and A. K. Nigam
14	Proper electroresistance of La0.67Ca0.33MnO3 thin film	Nagaiah Kambhala and S. Angappan
15	Magnetodielectric effect and Re-entrant Spin-glass State in the Spiral Magnet BiMnFe2O6	Somnath Ghara and A. Sundaresan
16	Corrosion behavior of Polymer Derived Ceramics in Aqueous Hydrofluoric acid and Na salts	Sudagar Jothi, Sujith Ravindran Ravi Kumar
17	Improved absorption of electromagnetic and radiation in resin based light weight carbon foam by nanostructuring	Rajeev Kumar, R.B. Mathur and S.R. Dhakate
18	Studies on Crystal Structure and Electrical Properties of Multiferroic (1-x)Bi(Ni1/2Ti1/2) O3-xPbTiO3 Solid Solution across the Morphotropic Phase Boundary	Rishikesh Pandey , Akhilesh Kumar Singh and Sanjay Kumar Mishra
19	Strain mediated magnetoelectric coupling in NiFe2O4-BaTiO3 multiferroic composite	G. Venkataiah, K. Raju, R.S. Joshi, D.H. Yoon and P.S. Anil Kumar
20	Cubic mesoporous SiO2 nanofibers by the electrospinning technique	Jony Saha and Goutam De

21	Direct hexagonal transition of amorphous (Ge2Sb2Te5)0.9Se0.1 thin films	Vinod E.M, K. Ramesh, R. Ganesan, K.S. Sangunni
22	Influence of lanthanum substitution on the structural and electrical properties of ultra high strain PZT ceramics	Ajeet Kumar, V V Bhanu Prasad, K C James Raju, A R James
23	Au-RGO as oxygen electrode catalyst for Li-air cell, a hybrid battery-fuel cell device	Surender Kumar, C. Selvaraj, N. Munichandraiah and L.G. Scanlon
24	Perylene Polyimide based Organic Electrode Materials for Li-ion Batteries	Pavan Sharma, Dijo, Damien, Kalaivanan , Nagarajan, Manikoth M. Shaijumon and Mahesh Hariharan
25	Synthesis and Characterization of Free Standing Thin Film of Polyanilne / FA / Ag Nano composites Induced by DC Glow Discharge Plasma	K.A. Vijayalakshmi, M. Revanasiddappa, K.Vanitha and S.C. Raghavendra
26	Enhancing the thermal and mechanical properties of Carbon-Ceramic composites by addition of nanoparticles	L. M. Manocha ,Milan M. Vyas, Manocha and P. M. Raole
27	Corrosion inhibition of light-weight magnesium by anionic surfactant laurate: An ecofriendly and economic approach.	Nandini and A Nityananda Shetty
28	Structure Electronic and Magnetic Properties of One dimensional MoS2+x NanoRibbons	J. Karthikeyan, Vijay Kumar and P. Murugan
29	Tuning the properties of oxide substrates used in catalysis, by anion doping	Sukanya Ghosh, Nisha Mammen Shobhana Narasimhan
30	Molecular Dynamic Mechanism of Crack Initiation and Propagation in Nano-crystalline Aluminum	N Subramanya , Vijay Kumar Sutrakar and D Roy Mahapatra
31	Boron doped defected graphene: A promising anode material for Li ion battery	Deya Das, Rahul P. Hardikar, Sang Soo Han, Seungchul Kim, Kwang-Ryeo Lee and Abhishek K. Singh
32	THz Shielding Efficiency of Carbon Nanotubes in Polymer Film	Debanjan Polley, Anjan Barman Rajib Kumar Mitra
33	Temperature and pressure dependent Raman studies on RCrO3 (R= rare-earth)	Venkata Srinu Bhadram, B.Rajeswaran, Dhanya R A. Sundaresan and Chandrabhas Narayana
34	Bacteriorhodopsin: Building-block for Solid-state electronic Devices	Sabyasachi Mukhopadhyay Debora Marchak, Wenjie Li, Mordechai Sheves, and David Cahen
35	Development of a Versatile Drug Eluting Bioactive Bone Filler Cement	S. Sandhya, S. Sureshbabu, H. K. Varma and M. Komath

The conference banquet was held in the evening of Tuesday the 17th December. A colourful cultural evening held on the 18th December gave a glimpse of the rich traditions of the region.

The 2013 International Conference in Asia (IUMRS-ICA) concluded on Friday, the 20th December after five days of scientific deliberations and various special activities. The final event was the address by the meeting Chair, Prof. Krupanidhi, who thanked all the individuals responsible for organizing the conference.

Prof. S B Krupanidhi
Chairman, IUMRS-ICA 2013

NOTIFICATIONS

- The Annual membership fee of MRSI has been abolished with effect from 1st April 2014.
- All the members of MRSI are requested to access the journal 'Bulletin of Materials Science' online only using the link **http://www.ias.ac.in/matersci** as the hard copies of the BMS issues would not be dispatched to any of the members henceforth. This decision was taken at the Anuual General meeting of MRSI held at Bangalore during February 2014.

STUDENTS' PROJECTS

MRSI would be supporting projects of students doing B.Tech, M.Tech, ME, M.Phil, Ph.D in the area of Materials Science and Technology. The projects should be undertaken under the supervision of a MRSI member. The students can submit their proposals to the MRSI office before **October 31st 2014.** After the projects are approved, the students would be supported financially (registration waiver, II class AC train travel and local hospitality) for participating in the AGM of MRSI to present the results of the projects approved.

ANNOUNCEMENT

A review of the functioning of the local chapters and subject groups of MRSI was discussed during the council meeting of MRSI held at Indian Institute of Science during February 2014. Accordingly, all those chapters who are interested in conducting their annual activities can make a proposal to MRSI, including the budget required for the year 2013-14 and accordingly, the seed money would be sanctioned to the chapters for conducting their activities. Please note that the council decided to consider a maximum of 3 chapter activities per year for sanctioning the seed money. All the proposals from the local chapters will have to reach MRSI office on or before **August 31st, 2014**.

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Enrolled between January 1 and June 30, 2014

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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 friends and students of Dr. G C Jain. 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 (2013, 2014 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 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.

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 31st, 2014.**

photo

Application Form

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

AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 25 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, 2014 is:

Life Members	**:**	**3440**
Annual Members	**:**	**10**
Honorary members	**:**	**163**
Patron members	**:**	**83**

Awards and Honours

International Award for Materials Science and Technology

This prize is awarded once in 2 years.

Prof. CNR Rao, JNCASR, Bangalore (2009)
Prof. Martin Jansen, Max-Planck Institut, Germany (2011)
Prof. Sir. Richard Friend, Cambridge University, UK (2013)

CNR Rao Prize Lecture in Advanced Materials

Prof. S B Krupanidh (IISc, Bangalore) (2010)
Dr. S Banerjee, DAE, Mumbai (2011)
Prof. A K Sood, IISc, Bangalore (2012)
Prof. M K Sanyal, SINP, Kolkata (2013)
Prof. U Ramamurty, IISc, Bangalore (2014)

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)
Prof. S K Joshi (2010)
Dr. S Sivaram (2011)
Prof. Vikram Kumar (2012)
Dr. T Ramasami (2013)
Prof. D Chakravorty (2014)

MRSI-ICSC Superconductivty 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)
Dr. P R Vasudeva Rao (IGCAR, Kalpakkam) (2011)
Dr. A K Tyagi (BARC, Mumbai) (2014)

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)
Prof. Ashutosh Sharma (IIT, Kanpur) (2011-2012)
Dr. Suresh Das, NIIST, Thiruvananthapuram (2013-2014)

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, Thiruvanathapuram (2009)
Dr. H S Maiti, (CGCRI, Kolkata) (2009)
Dr. N Kumar (Defence Laboratory, Jodhpur) (2010)
Prof. O N Srivastava (BHU, Varanasi) (2010)
Prof. D Bahadur (IIT, Mumbai) (2011)
Prof. G U Kulkarni (JNCASR, Bangalore) (2011)
Prof. L M Manocha (SP University, Gujarat) (2011)
Prof. S M Shivaprasad, JNCASR, Bangalore (2012)
Dr. Amlan J Pal, IACS, Kolkata (2012)
Prof. R P Tandon, University of Delhi, Delhi (2012)
Dr. M P Janawadkar, IGCAR, Kalpakkam (2013)
Dr. R Muralidharan, SSPL, Delhi (2013)
Dr. Gautam De, CGCRI, Kolkata (2014)
Dr. V P S Awana, NPL, India (2014)
Dr. Shrikant V Joshi (ARCI, Hyderabad) (2014)
Dr, Navin Chand, AMPRI, Bhopal (2014)

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 305 Medals have been awarded. The MRSI Medal winners for the years 1990 to 2010 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

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Dr.K.Balakrishnan, CECRI, Karaikudi
Prof. S.V.Bhat, IISc, Bangalore
Prof. S.K.Biswas, IISc, Bangalore

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Prof. V.V.P.Kutumba Rao, BHU, Varanasi
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Dr. T.S.Radhakrishnan, IGCAR, Kalpakkam
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Prof.T.R.N.Kutty, IISc, Bangalore
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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

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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

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Dr.A.Jayakrishna, SCTIMST, Thiruvananthapuram
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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, IICT,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 UniversityKolhapur
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, Kharaghpur
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

2010
Dr. S R Barman, UGC-DAE Consortium for Scientific Research, Indore
Dr. Subhasish Basu Majumder, IIT, Kharagpur

Dr. D Ramaiah, NIST, Thiruvanathapuram
Dr. T Gnanasekaran, IGCAR, Kalpakkam
Prof. B Jagirdar, IISc, Bangalore
Prof. R K Mandal, BHU, Varanasi
Dr. P K Khanna, C-MET, Pune
Dr. V P S Awana, NPL, New Delhi
Dr. P R Harikrishna Varma, SCTIMST, Trivandrum
Dr. P K Biswas, CGCRI, Kolkata
Dr. Bharat B Kale,C-MET, Pune
Dr. D K Aswal, BARC, Mumbai
Dr. K K Nanda, IISc, Bangalore
Dr. A K Singh, DMRL, Hyderabad
Prof. R Murugavel, IIT, Mumbai

2011
Dr. Avanish Kumar Srivastava, NPL, New Delhi
Prof. Asim Bhaumik, IACS, Kolkata
Dr. Harish C Barshilia, NAL, Bangalore
Dr. John Philip, IGCAR, Kalpakkam
Dr. C Gouri, VSSC, Thiruvananthapuram
Prof. M Eswaramoorthy, JNCASR, Bangalore
Dr. O S Panwar, NPL, New Delhi
Dr. N Ravishankar, MRC, IISc, Bangalore
Prof. Arindam Banerjee, IACS, Kolkata
Prof. Rajiv Prakash, BHU, Varanasi
Dr. L M Kukreja, RRCAT, Indore
Dr. Anil Kumar P S, IISc, Bangalore
Dr. Ram Gopal, Allahabad University, Allahabad

2012
Dr. B L V Prasad, NCL, Pune
Prof. R Vijayaraghavan, VIT, Vellore
Prof. I Samajdar, IIT, Mumbai
Prof. T K Nath, IIT, Kharagpur
Dr. S A R Hashmi, AMPRI, Bhopal
Prof. K K Raina, Thapar University, Patiala
Prof. (Mrs) S Manocha, S P University, Vallabh Vidyanagar
Dr. Tarun K Mandal, IACS, Kolkata
Dr. R Mukhopadhyay, BARC, Mumbai
Dr. P Barat, Variable Energy Cyclotron Centre, Kolkata
Prof. Vinay Gupta, University of Delhi, Delhi
Prof. Arindam Ghosh, IISc, Bangalore
Prof. Ratnamala Chatterji, IIT, New Delhi
Prof. Bikramjit Basu, IISc, Bangalore
Dr. Roy Johnson, ARC-I, Hyderabad
Dr. Chandra Prakash, DRDO, Delhi

2013
Dr. Subi Jacob George, JNCASR, Bangalore
Prof. Aninda J Bhattacharyya, IISc, Bangalore
Dr. Sabu Thomas, M G University, Kottayam
Dr. Kota Murali, IBM India, Bangalore
Dr. Sheela Berchmans, CERI, Karaikudi
Dr. G Padmanabham, ARC-I, Hyderabad
Dr. A M Biradar, NPL, New Delhi
Prof. Jyotsna Dutta Majumdar, BESU, Shibpur
Dr. G Amarendra, IGCAR, Kalpakkam
Dr. Kulamani Parida, Instt. of Minerals and Materials Technology, Bhubaneswar
Dr. Nikhil K Singha, IIT, Kharagpur
Dr. S K Gupta, BARC, Mumbai
Dr (Mrs). Lakshmi Kantam, IICT, Hyderabad

2014

Dr. Satish Patil, IISc, Bangalore
Prof. N Karak, Tezpur University, Tezpur
Prof. T K Maji, JNCASR, Bangalore
Prof. Alokmay Datta, SINP, Kolkata
Dr. Shyamal Kumar Saha, IACS, Kolkata
Dr. N. Kalaiselvi, CERI, Karaikudi
Prof. T P Sinha, Bose Institute, Kolkata
Dr. Pankaj Poddar, NCL, Pune
Prof. Nandita DasGupta, IIT, Madras
Dr. Anoop Mukhopadhyay, CGCRI, Kolkata
Prof. Manjunatha Pattabi, Mangalore University, Mangalore
Dr. K K Chattopadhyay, Jadavpur University, Kolkata
Dr. S C Gadkari, BARC, Mumbai
Dr. Sangeeta Kale, DIAT, Pune
Dr P Prabhakar Rao, NIIST, Trivandrum
Dr K Nagarajan, IGCAR, Kalpakkam
Prof. Rabibrata Mukherjee, IIT, Kharagpur
Dr. R Gopalan, ARC-I, Hyderabad
Dr. N R Munirathnam, C-MET, Hyderabad
Prof. Abhishek Singh, IISc, Bangalore
Prof. Ashish Garg, IIT, Kanpur

MRSI Silver Jubilee Medal

Dr. Satish Ogale (NCL, Pune)
Prof. G P Das (IACS, Kolkata)
Dr. Pushpito K Ghosh (CSMCRI, Bhavnagar, Gujarat)
Prof. P S Anil Kumar (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 Pt_5La, Pt_5Ce, Pt_5Pr, Pt_5Tb and Pt_5Tm, 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 A1Hf as studied by 181Ta TDPAC' by R Govindaraj, Materials Science Division, IGCAR, Kalpakkam, K P Gopinathan, Dept. of Physics, Cochin University of Science & Technology, Cochin and B Viswanathan, Materials Science Division, IGCAR, Kalpakkam, Bulletin of Materials Science, Vol. 23, No. 3, June (2000), p 201

2002:
'Non Equilibrium Solidification of undercooled droplets during Atomization Process' by Prasanth Shukla, R K Mandal and S N Ojha, Centre for Advanced Study, Dept. of Metallurgical Engineering, Banaras Hindu University, Varanasi 221 005, Bulletin of Materials Science, Vol 24 (2001) p. 547.

2003:
'Preliminary *in vitro* and i*n 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, A A 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.

2010:
"Low temperature synthesis of nanosized $Mn_{1-x}Zn_xFe_2O_4$ ferrites and their characterizations" by Rajesh Iyer, Rucha Desai and R V Upadhyay, Bulletin of Materials Science, Volume (32), No. 2, April 2009, pp. 141-147.

2011:
"Low temperature synthesis of $Ba_{1-x}Sr_xSnO_3$ (x = 0–1) from molten alkali hydroxide flux" by B Ramdas and R Vijayaraghavan, Materials Division, School of Advanced

Sciences, VIT University, Vellore, Volume (33), No.1, February 2010, pp 75-78

2012:
"Formation of nanoscale tungsten oxide structures and colouration characteristics" by Vijay Bhooshan Kumar and Dambarudhar Mohanta, Nanoscience Laboratory, Department of Physics, Tezpur University, Tezpur, Volume 34, No 3, June 2011, pp 435

2013

"Pd grating obtained by direct micromolding for use in high resolution optical diffraction based sensing" by Ritu Gupta and Giridha U Kulkarni, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Vol (35) No. 5, October 2012, pp. 773-779.

"Effect of TiO_2 nanotube length and lateral tubular spacing on photovoltaic properties of back illuminated dye sensitized solar cell" by Shantikumar V Nair, A Balakrishnan, K R V Subramanian, A M Anu, A M Asha and B Deepika, Nano Solar Division, Amrita Centre for Nanosciences, Kochi. Vol (35), No. 4, August 2012, pp 489-493.

2014: No prize was given in 2014.

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 $[(Mg_{1/3}Nb_{2/3})O_3]$-$xPbTiO_3$ 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 PEG_xLiClO_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., Hebalker 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 TiO_2 Thin Films on Glass' by Mahata S and Kundu Debtosh, CGCRI, Kolkata

'Observation of TO_1 soft mode in $SrTiO_3$ 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 $CaCO_3$ 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)$[Pb(Mg_{1/3}Nb_{2/3})O_3]$-$xPbTiO_3$' 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 tungstun 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 β-PVDF films" Anjana Jain, Kalyan Sundaram, V Vedha Prakash, National Aerospace Laboratories, Bangalore and H.H. Kumar, ARDE, Pashan, Pune

"Effect of Mn^{III} acetylacetonate complexes on the hydrophilicity of nanocrystalline sol-gel derived 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 C:MgB2' B B Sinha, S C Chougale and S H Pawar, Shivaji University, Kolhapur

'Optical and Switching Studies on Near-Stoichiometric Nd:Zn:LiNbO3 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 $La_{0.5}Ca_{0.5}MnO_3$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.

" 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.

"β-SiC/SiO_2 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 $CuCoFe_2O_4$ 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 Bisws 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.

2010:

'HRTEM characterization of Ceria-Zirconia multilayer prepared by pulsed laser deposition' by Chanchal Ghosh, Divakar Ramachandran, P Kuppusami, E Mohandas and D Santikumar, IGCAR, Kalpakkam and G Balakrishnan, National Institute of Technology, Tiruchirapalli.

'Carbon/Silicon carbide composites with carbon nanotubes on Silicon carbide cloth Hybrid reinforcement' by L M Manocha and Rajesh Pande, S P University, Vallabh Vidyanagar, Gujarat.

'Thermal Plasma process for synthesis of crystalline nano-titania' by Macwan Dhwani P, Dave P N, Nirma University, Ahmedabad, Balasubramanian C, Rayjada P A and Chauhan N, Institute for Plasma Research, Ahmedabad.

'Exploration of possible novel phases in Ge-Sn system using LHDAC' by Y A Sorb, N R Sanjay Kumar, N V Chandra Shekar, M Sekar, T R Ravindran, N Subramanian, and Ch. Sahu, IGCAR, Kalpakkam

'Nanocaral Architectural TiO_2 form hydrothermal route' by S S Mali, Shivaji University, Kolhapur, C A Betty, BARC, Mumbai, P N Bhosale and P S Patil, Shivaji University, Kolhapur.

2011

'Biosensing Studies of Capped ZnS Nanoparticles for Sensing Applications' by Manoj Sharma and O.P. Pandey, School of Physics and Materials Science, Thapar University, Patiala 147004

'Investigation of fiber treatment on Fiber/Matrix Adhesion and Physico-Mechanical Properties of Sisal Reinforced

Polyester composites' by Ruhi Haque, Mohini Saxena, S.C. Shit and P. Ashokan Advanced Materials and Processes Research Institute (CSIR), Bhopal- 462064

'A novel approach to Electro-optic andThermo-chromic behavior of Polymer Stabilized Liquid Crystal composite film' by Rishi Kumar and K.K.Raina, Material Research Laboratory, School of Physics and Material Science, Thapar University, Patiala 147004, India

'Size controlled synthesis of zinc oxide rods via sonochemical process' by Arpita Jana, P Sujatha Devi and N R Bandyopadhyay, School of MAterials Science and Engineering Bengal Engineering and Science, University, Shivpur,

2012 :

"Morphological studies of langmuir Blodgett films of polyaniline-TiO_2 composite material", Gurpreet Kaur Bhullar and K K Raina, Thapar University, Patiala.

"Synthesis of self sequestering surfactant from methyl isoricinoleate with maleic and phthalic anhydride and determination of stability constant with Ca2+ ions complexometrically" Sushil Kumar, Bhai Gurdas Institute of Engineering and Technology, Sangrur, R P Singh, Guru Nanak Dev Engineering College, Ludhiana and Sukhprit Singh, Guru Nanak Dev University, Ludhiana.

"Chemical compatibility of borosilicate glasses with YSZ for SOFC applications", Gurbinder Kaur, O P Pandey and K Singh, Thapar University, Patiala.

"Vivid studies pertaining to synthesis of nanostructures of molybdenum oxide", Nilam Qureshi, Manish Shinde, Govind Umarji, Uttam Malik and Dinesh Amalnerkar, C-MET, Pune.

"Growth of thick ZnO thin films for acoustic sensors and SAW devices", Reema Gupta, Vinay Gupta, Kajal Jindal, Anjali Sharma, Monika Tomar, University of Delhi, Delhi, Mahanth Prasad, Arti Arora, CEERI, Pilani.

"Preparation and characterization of barium hexaferrite prepared from barium monoferrite", Samiksha Verma, Pooja Chauhan, O P Pandey and Puneet Sharma, Thapar University, Patiala.

"Hierarchical nanostructures of $Cdln_2S_4$ via hyderothermal and microwave methods", Sunil N Garaje, Sanjay K Apte, Sonali D Naik and Nharat B Kale, C-MET, Pune.

2013

"Glassy behavior in multiferroic Ba_3 $Nbfe_3Si_2O_{14}$ " by Satyapal Singh Rathore and Satish Vitta, Department of Metallurgical Engineering and Materials Science,
Indian Insitute of Technology Bombay, Mumbai – 400 076, India

"Rare Earth Intermetallic compounds RCoNi (R = Gd, Tb, Dy and Ho) for low temperature magnetic refrigeration applications" by Rajib Mondal, Department of Physics, Indian Insitute of Technology Madras, Channai 600 036, R. Nirmala, Department of Physics, Indian Insitute of Technology Madras, 600 036, J. Arout Chelvane, Defence Metallurgical Research Laboratory, Hyderabad 500 058, India
A. K. Nigam, Tata Institute of Fundamental Research, Mumbai 400005,

"Tuning the photoluminescence of ferroelectric liquid crystal by controlling the size of dopant ZnO quantum dots" by Prasun Ganguly, T. Joshi, D Haranath, and A M Biradar, CSIR-National Physical Laboratory, Dr. K.S. Krishna Road, New Delhi-110012, S. Singh, Department of Physics, Banaras Hindu University, Varanasi – 221005,

"Ligament coarsening in Nanoporous Gold : A Positron Annihilation Study" by V. A. Chirayath, R. N. Viswanath, R. Rajaraman, G. Amarendra, C.S. Sundar, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603 102

"Structural Characteristics and mechanical properties of Reactive DC magnetron sputtered nanocrystalline TiN thin films at target power of 50 W" by Dinesh Kumar D, and R Jayavel Centre for Nanosciences and Technology, Anna University, Chennai – 600 025, India, and S. Kalaiselvam, Department of Mechanical Engineering, Anna University, Chennai – 600 025, India

2014:

"Effect of texture coefficient on nanocrystalline SnO_2 based sensors for NO_2 Sensing" by Manjeet Kumar, Akshay Kumar and A. C. Abhyankar

"Controlled, electroless and rapid synthesis of carbon nanotubes/gold nanoparticles nanocomposite by spontaneous reduction of gold ions" by Ravi Nandan, Gopal K. Goswami and Karuna K. Nanda

"Growth of 2″ Silicon Carbide (SiC) Single Crystal – Unique Wide Band Gap Semiconductor for Advance Electronic Application" by Sandeep Mahajana, M. V. Rokadea, S. T. Alia, N. R. Munirathnam, S. Debb, D. V. Sridhararaob, M. Vijayakumar b and A. K. Garg

"Nano Oxides for Performance Enhancement of Li-ion Batteries" by Raghu C Reddy, R Narasimha Rao and N R Munirathnam

"Liquid Crystal Based Highly Sensitive Bovine Serum Albumin Biosensor" by Prasun Ganguly, Ajay Kumar, Vikash Sharma, and A. M. Biradar

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 160 papers in 1127 pages of scientific articles in 2013. The BMS is available on the internet (**http://www.ias.ac.in/matersci**/). 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**).

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 Dr. K K Nanda. Since 2011, only electronic version of the Newsletter is being published.

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 he 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 hosted the IUMRS-ICA 2013 during December 16-20, 2013 at Indian Institute of Science, Bangalore 560 012.

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. 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. An additional 17 members have been recently elected to APAM India chapter. Prof. O N Srivastava is the President of APAM India Chapter.

HONORARY MEMBERS

(elected during the period 1990-2014)
(year in the bracket indicates the year of election)

Ajayan P M, Rice University, USA (2008)

Akihisa Inoue, Tohuku University, Japan, (2001)

Alan Windle, University of Cambridge,U.K, (2003)

Alario-Franco M A, Ciudao 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)

Bandyo Y, National Institute for Materials Science, Japan (2010)

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

Blinc R, J. Stefan Institute , Slovania, (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)

Chad A Mirkin, Northwestern University, USA (2013)

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)

Chennupati Jagadish, Australian National University, Australia (2012)

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)

Chunli Bai, Chinese Academy of Science, China (2013)

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)

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

Endo M, Shinshu University, Japan (2014)

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

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

Dresselhaus Mildred S, Masachusetts Institute of Technology, U.S.A, (1991)

Edwards P P, The University of Birmingham,U.K, (1995)

Ferey Gerard, University of Versailles, France, (1998)

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)

Gschneidner K A, Iowa State University, U.S.A, (1993)

Hagenmuller P, Univ.of Bordeaux I, France, (1990)

Helmut Dosch, *DESY*, Germany (2014)

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, Laborotium 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)

Kumar H Wikramasinghe, University of California, USA (2011)

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 Forbeb 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)

Mrityunjay Singh, Ohio Aerospace Institute, USA (2011)

Narendra B Dahotre, University of North Texas, Texas, USA (2012)

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)

Ole K Andersen, Max-Planck Institute for Solid State Research, Germany, (2010)

Ossipiyan Yu A, Russian Academy of Sciences,Russia, (1991)

Parrinello M, Max-Planck-Institut fur Festkorperforschung, Germany, (1999)

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

Paul Attfield 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)

Ram Katiyar, Puerto Rico University, USA (2014)
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 fur 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-Plank Institut fur 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, Renssealaer Polytechnik 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)
Vinayak P Dravid, Northwestern University, USA (2011)
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)
Zhao Z S, National Lab for Superconductivity, China (1991)

Calendar of Events

September 2014

September 4-5, 2014, National Conference on Materials for Energy, Storage and Conversion, Dr. G HiranKumar, Convenor, MEScon 2014, Centre for Scientific and Applied Research, PSN College of Engineering and Technology, Melathediyoor, Tirunelveli 627 152, Mobile: 9600372718, 9442591186, Email: mescon2014@psnresearch.ac.in, Website: www.psnresearch.ac.in

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

ANNUAL GENERAL MEETINGS

Sl. No	AGM	Venue	Organizers
1.	1990	National Chemical Laboratory, Pune	*Chairman:* R A Mashelkar
2.	1991	National Physical Laboratory, New Delhi	*Chairman: S K Joshi* Secretary : B K Das
3.	1992	Indian Institute of Science, Bangalore	*Chairman:* Ranganathan S *Convenor:* A M Umarji
4.	1993	Regional Research Laboratory, Thiruvananthapuram	*Chairman:* A D Damodaran
5.	1994	Research Centre, Imarat, Hyderabad	*Chairman:* S L N Acharyulu
6.	1995	Indian Institute of Technology, Kharagpur	*Chairman:* K L Chopra *Convenor:* H D Banerjee
7.	1996	Indian Institute of Science, Bangalore	*Chairman :* A K Singh
8.	1997	Bhabha Atomic Research Centre, Mumbai	*Chairman :* C K Gupta *Secretary :* G E Prasad
9.	1998	Indian Institute of Technology, Chennai	*Chairman :* R Natarajan
10.	1999	Regional Research Laboratory, Bhopal	*Convenor :* T C Rao
11.	2000	Sardar Patel University, Vallabh Vidyanagar	*Chairman :* V S Patel *Convenor :* L M Manocha
12.	2001	Saha Institute of Nuclear Physics, Kolkata	*Convenor :* M K Sanyal
13.	2002	Defence Metallurgical Research Laboratory, Hyderabad	*Convenor :* D Banerjee
14.	2003	Bhabha Atomic Research Centre, Mumbai	*Chairmen :* Ashok Misra / S Banerji
15.	2004	Banaras Hindu University, Varanasi	*Chairman :* P Ramachnadra Rao *Convenor :* S Lele
16.	2005	National Chemical Laboratory, Pune	*Chairman* : S Sivaram *Convenor* : K Vijayamohanan
17.	2006	University of Lucknow, Lucknow	*Chairman* : R P Singh *Convenor :* Poonam Tandon
18.	2007	National Physical Laboratory, New Delhi	*Chairman :* Vikram Kumar *Convenor :* Anil K Gupta
19.	2008	Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram	*Chairman:* G S Bhuvaneshwar *Convenor:* D S Nagesh
20.	2009	Saha Institute of Nuclear Physics, Kolkata	*Chairman :* N R Bandyopadhyay
21.	2010	Sardar Patel University, Vallabh Vidyanagar, Gujarat	*Chairman:* L M Manocha
22.	2011	AMPRI, Bhopal	*Chairman:* Anil K Gupta
23.	2012	Thapar University, Patiala	*Convenor: K K Raina`*
24.	2013	IGCAR, Kalpakkam	*Chairman: C S Sundar*
25.	2014	Indian Institute of Science, Bangalore	*Chairman: S B Krupanidhi*

Patron Membership

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-	Discounts on advertisements in Newsletter
-	Advance notification of programmes and events
-	Free employment Advertisements in the MRSI Newsletter
-	Registration of 2 company representatives in each society meeting at member registration rates

We appeal to all organizations /laboratories/companies involved in the R&D/Educational activities of Materials Science and Technology to become Patron members.

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