



MRSI Newsletter

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

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July 2012

From the Editors' Desk

Photocatalysts are generally, semiconducting materials as they absorb light. When a material is exposed to sun or fluorescent lamp, it produces surface oxidation to eliminate harmful substances such as organic compounds or nearby bacteria, etc. In the case of metals, the high conductivity of a metal precludes sufficient electric field to separate photocarriers and is not used for photocatalysis. However, the high carrier mobility in a metal might facilitate kinetic charge separation which has been explored by a group of scientists from School of Chemistry, University of St Andrews, UK who have developed $Sr_{1-x}NbO_3$ a metallic oxide photocatalyst. The work has appeared in Nature Materials 11, 595 (2012). It has been shown that the materials under visible light can be used for the oxidation of methylene blue and both the oxidation and reduction of water.

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

Volume B 12, Number 3
July 2012

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
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nanda@mrc.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.

D Mohanta	US Research Fellowship Award- by Indo-US Science and Technology Forum (2012)
P K Jha	(i) UGC Research Award-(2012) (ii) ICTP Associateship
Ranabrata Mazumder	R.L. Thakur Memorial Award (Young Scientist) of Indian Ceramic Society (2011)

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 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 2012**. 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.

NOTIFICATION

Nominations for the MRSI Awards/Prizes and Medals for the year 2013

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

- Distinguished Materials Scientist of the year award (1)
- Distinguished Lecturership Award (1)
- MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- MRSI Medal Lectures
- Honorary Members

The last date for the receipt of nominations at Bangalore office of MRSI is **July 31, 2012**.

NEW MRSI WEBSITE

The new website of MRSI with its own domain name is www.mrsi.org.in. Each member of MRSI would be receiving his/her username and password to access the website when requested through email.

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 (2011, 2012 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, 2012**.

Application Form

photo

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

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

Date :

Signature

New Members

Enrolled between April 1 and June 30, 2012

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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 Bhopal during February 2011. 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 2012-13 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 **July 31st, 2012**.

CALENDAR OF EVENTS

(July 2012- February 2013)

29-30 July, 2012 , ACCMS Theme Meeting on 2DNanostructures-Graphene and Beyond, Materials Research Centre, Indian Institute of Science, Bangalore 560 012, Tel: 91-80-22932784, Fax: 91-80-22932784, Email: tm2ds2012@gmail.com
8 August 2012 , Young Scientists' Colloquium-2012, MRSI Kolkata Chapter, CGCRI, Kolkata, website: www.mrsi-kolkata.org
24-25 August, 2012 , 2 nd Conference of India Association Congress, Mumbai. For more details refer to the website: http://www.indiaassociationcongress.com
26-31 August, 2012 , IUMRS-ICA 2012, Busan, Korea. For details refer to the website: http://www.iumrs-ica2012.org/
05-07 September, 2012 , 5 th South African Ferro-Alloys Conference, Hilton Sanaton, Johannesburg. For more details refer to the website: www.metalbulletin.com/events/safa
23-28 September, 2012 , IUMRS-ICEM 2012, Yokohama, Japan. Refer to the website for more details: http://iumrs-icem2012.org/
7-9 December, 2012 , Young Scientists training workshop on Fundamentals and Advances in Biomaterials Science, (<i>Exclusively for PhD students and young researchers of 35 years of age or below</i>), Dr. Bikramjit Basu, Workshop Convener, BIOMAT 12, Materials Research Center, Indian Institute of Science, Bangalore-560012, Tel: +91-80-2293 3256, E-mail: biomat12.iisc@gmail.com
01-02 February, 2013 , International Conference in Recent Trends in Applied Physics and Material Science, RAM 2013, Dr. Sudhir Bhardwaj, Convener, Govt. College of Engineering and Technology, Karni Industrial Area, Pugal Road, Bikaner 334 004, Mobile : 91-9351672524, +91-9414486278, Email: ram2013india@gmail.com , Website: www.ram2013.com
11-13, February 2013 , 24 th Annual General Meeting of MRSI, IGCAR, Kalpakkam. Dr. Amarendra, Materials Science Group, IGCAR, Kalpakkam 603 102, Tel No. 044-2740500-Ext. 2442, Fax No. 044-27480081, Email: mrsiagm2013@igcar.gov.in , website: http://www.igcar.gov.in/mrsi/agm2013

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 23 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, 2012 is:

Life Members	: 3161
Annual Members	: 11
Honorary members	: 159
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)

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)

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)

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)
Dr. P R Vasudeva Rao (IGCAR, Kalpakkam) (2011)

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)

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)
 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)

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

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.Agarawal, 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. Vijayamohanam, 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, 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, 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

2010

Dr. S R Barman, UGC-DAE Consortium for Scientific
Research, Indore
Dr. Subhasish Basu Majumder, IIT, Kharagpur
Dr. D Ramaiah, NIST, Thiruvananthapuram
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

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

2002:

‘Non Equilibrium Solidification of undercooled droplets during Atomization Process’ by Prasanth Shukla, R K Mandal and S N Ojha, Centre for Advanced Study, Dept. of Metallurgical Engineering, Banaras Hindu University,

Varanasi 221 005, Bulletin of Materials Science, Vol 24 (2001) p. 547.

2003:

'Preliminary *in vitro* and *in vivo* characterizations of a sol-gel derived 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

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 [$(Mg_{1/3}Nb_{2/3})O_3$]-xPbTiO₃ 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 PEG₆LiClO₄ 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 TiO₂ Thin Films on Glass’ by Mahata S and Kundu Debtoosh, CGCRI, Kolkata

‘Observation of TO₁ soft mode in SrTiO₃ 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 CaCO₃ 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}O₃)]-xPbTiO₃’ 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 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 TiO₂ 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}MnO₃ 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/SiO₂ 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 CuCoFe₂O₄ 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.

2010:

‘HRTEM characterization of Ceria-Zirconia multilayer prepared by pulsed laser deposition’ by Chanchal Ghosh, Divakar Ramachandran, P Kuppasami, 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 nanotitania’ by Macwan Dhvani 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 TiO₂ 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 and Thermo-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-TiO₂ 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 CdIn₂S₄ via hydrothermal and microwave methods”, Sunil N Garaje, Sanjay K Apte, Sonali D Naik and Nharat B Kale, C-MET, Pune.

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 185 papers in 1284 pages of scientific articles in 2011. 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 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 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. Prof. O N Srivastava is the acting President of APAM India Chapter.

HONORARY MEMBERS

(elected during the period 1990-2012)

(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, RUC 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)

Blinic 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)

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)

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)

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)

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)
Hagemuller P, Univ. of Bordeaux I, France, (1990)
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 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)
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)
Ossipyan 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)
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)

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
21.	2010	Sardar Patel University, Vallabh Vidyanagar, Gujarat	<i>Chairman:</i> L M Manocha
22.	2011	AMPRI, Bhopal	<i>Chairman:</i> Anil K Gupta
23.	2012	Thapar University, Patiala	<i>Convenor:</i> K K Raina

Patron Membership

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

Privileges of Patron Members

- Publication of their names in MRSI Newsletter
 - Bulletin of Materials Science / MRSI Newsletter
 - MRSI Update
 - Free supply of all periodicals published by MRSI such as:
 - Symposium proceedings at prices applicable to members
 - Display of Company Literature free of charge at MRSI meetings
 - Discounts on advertisements in Newsletter
 - Advance notification of programmes and events
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 - 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.

Request for Patron membership may be made to:

**Prof. S B Krupanidhi
General Secretary, MRSI
Materials Research Centre
Indian Institute of Science
Bangalore 560 012
Email : office@mrsi.org.in**

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