



# MRSI Newsletter

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for circulation amongst its members*

**Volume B 16 Numbers 2 & 3**

**April and July 2016**

## From the Editors' Desk

Charge transfer from photoexcited quantum dots has widely been studied in the context of various applications including solar cells, photocatalysis, photodetection, etc. Very recently, Researchers from University of Colorado have shown [Nature Materials 15, 529 (2016)] that “photoexcited quantum dots can kill a wide range of multidrug-resistant bacterial clinical isolates, including methicillin-resistant *Staphylococcus aureus*, carbapenem-resistant *Escherichia coli*, and extended-spectrum $\beta$ -lactamase producing *Klebsiella pneumoniae* and *Salmonella typhimurium*.”.

One of the advantages associated with quantum dots is highly specific interactions within the cellular environment that only target the infection. The dots remain inactive in darkness, but can be activated by exposing them to light to kill the infected cells.

Though gold and silver nanoparticles can be used for antibiotic resistant infections, surrounding cells are also damaged. On the other hand, quantum dots can be tailored to particular infections.

**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](http://www.mrsi.org.in)**

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## **MRSI NEWSLETTER**

**Volume B 16, Numbers 2 & 3, April and July 2016**

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.

<b>C P Reghunadhan Nair</b>	-ISRO Individual Merit award 2015 -Indian Chemical Council Award(for the group) -National Innovation Award for polymer technology from ministry of Chemicals & petrochemicals 2015
<b>B M Reddy</b>	-Bronze Medal, Chemical Research Society of India
<b>Raja Ram Yadav</b>	-Joint Secretary and Fellow, Indian Academy of Social Sciences,
<b>Amlan J Pal</b>	-J C Bose Fellowship of DST, Government of India

*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 27<sup>th</sup> Annual General Meeting of MRSI**

The Twenty Seventh Annual General Body Meeting of Materials Research Society of India was held on Friday, the 19<sup>th</sup> February 2016 at M S Iyengar Hall, North East Institute of Science and Technology, Jorhat. The President of MRSI, Dr. Suresh Das welcomed the members and conducted the AGM.

Prof. S B Krupanidhi, Vice President-General Secretary presented the Annual report of MRSI for the year 2015. Some aspects of the report are given below.

1. The APAM India Chapter held its meeting at Jorhat on 18<sup>th</sup> February, 2016.
2. The following paper has been adjudged as the best paper in the Bulletin of Materials Science for the year 2014.  
“Studies on interfacial interactions of TiO<sub>2</sub> nanoparticles with bacterial cells under light and dark conditions”, has been adjudged as the best paper published in the BMS, Vol. 37, No. 3, May 2014, pp 371-381.
3. The statement of accounts for the year 2014-15 and the Provisional statement as on 31.12.2015 were presented at the AGM.
4. The following scientists have been elected as Honorary Members of MRSI for the year 2016.
  - i. Prof. K Ariga (NIMS, Japan)
  - ii. Prof. Paul’ O Brien (University of Manchester, UK)
  - iii. Prof. Claudia Felser (Max Planck Institute, Germany)
5. The 28<sup>th</sup> Annual General Meeting of MRSI will be held at IIT, Mumbai during February 2017 in association with the Mumbai chapter of MRSI.

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

## **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 31<sup>st</sup> 2016**. 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.

## **REPORT ON THE 27<sup>th</sup> AGM OF MRSI**

The four-day program of Materials Research Society of India (MRSI) Symposium on “Advanced Materials for Sustainable Applications” was organized for the first time in North East India at CSIR-North East Institute of Science and Technology, Jorhat. The event which ran concurrently with the 27<sup>th</sup> Annual General Meeting of MRSI during 18-21 February, 2016 was hosted by CSIR-NEIST jointly with Tezpur University and IIT Guwahati. The symposium was partly sponsored by DAE-Board of Research in Nuclear Sciences (DAE-BRNS), Oil India Ltd. Duliajan and DST, Govt of India.

The glittering inaugural function held on 18 February, 2016 was graced by the presence of eminent personalities, council members of MRSI, scientists, faculty members, students & researchers from various parts of the country besides CSIR-NEIST fraternity. Dr G Sundararajan, Professor, IIT Madras & Distinguished Emeritus Scientist, ARCI Hyderabad and Dr Vijayamohan K Pillai, Director, CSIR-CECRI, Karaikudi graced the occasion as Chief Guest and Guest of Honour, respectively. Dr D Ramaiah, Director, CSIR-NEIST & Chairman, Organizing Committee delivered the welcome address wherein he spoke about CSIR-NEIST and the background of the Symposium. Prof S B Krupanidhi, Vice-President & General Secretary, MRSI briefly spoke about MRSI and its objective. In his address, Dr Pillai highlighted the impact of MRSI for stimulating research in Materials Science in India.

Dr Suresh Das, President, MRSI & Executive Vice President, Kerala State Council for Science & Technology, Trivandrum, in his Presidential Address, emphasized the need to develop new materials and R&D applications to address problems in harnessing of Solar Energy for mitigating the energy crisis in a sustainable way. Making a strong reference about the ‘Valley of Death’ that exists between basic research and industry, Dr Das stressed upon a systematic approach to cross over the gap. Later, the Souvenir of the Symposium was released by the Chief Guest. The inaugural program concluded with a vote of thanks from Dr P Sengupta, Chief Scientist, CSIR-NEIST and Convener, Organizing Committee.

On the eve of the MRSI symposium inaugural function, the Asia Pacific Academy of Materials (APAM) India Chapter Meeting, 2016 was also held on 18 February 2016, which was chaired by Prof SB Krupanidhi, IISc Bangalore in presence of Dr D Ramaiah, Director, CSIR-NEIST and Prof C Jagadish of ANU Australia. During the chapter meeting, three talks were delivered by the senior scientists of CSIR-NEIST Jorhat (Dr RL Goswamee: Hydrotalcite based nanocomposites- A group of materials with wide prospects; Dr (Mrs) S Hazarika: Development of indigenous membrane for emerging applications; and Dr T Goswami: Technology driven R & D for society: An Odyssey). About 70 scientists/faculty members and students from IISc Bangalore, Australian National University, CSIR-NEIST Jorhat, CSIR-NIIST Thiruvananthapuram, CSIR-CECRI Karaikudi, CSIR-CGCRI Kolkata, IACS Kolkata, IIT Jodhpur, IIT Hyderabad, IIT Kharagpur, S N Bose National Centre for Basic Sciences Kolkata, NIT Rourkela, Bharathidasan University Tiruchirapalli and Central Research Laboratory, BEL, Bangalore participated in the meeting.

The four-day symposium was held in 9 technical sessions covering Award, Medal & Thematic Lectures by eminent scientists & subject experts besides 2 poster sessions wherein 163 Posters were presented by students, researchers and young scientists from different parts of the country. It is worthwhile to mention that the DAE-Board of Research in Nuclear Sciences (DAE-BRNS), Mumbai sponsored the first technical session (Award Lectures) while Oil India Limited, Duliajan sponsored the fourth technical session (Thematic Lectures).

Highlights of the technical sessions included Distinguished Material Scientist of the Year Award Lecture, CNR Rao Prize Lecture in Advanced Materials, MRSI Silver Jubilee International Medal Lecture, four MRSI-ICSC Superconductivity and Materials Science Annual Prize Lectures, seventeen MRSI Medal Lectures, five G C Jain Memorial Lectures and five Thematic Lectures. Dr G Sundarajan, ARCI, Hyderabad delivered the Distinguished Material Scientist of the Year Award Lecture on, “Development of oxide dispersion strengthened steels at ARCI”. The CNR Rao Prize Lecture in Advanced Materials was delivered by Prof U V Waghmare, JNCASR, Bangalore on, ‘Theoretical predictions of novel structures, phenomena and functionality in 2-D materials’ and Prof Chennupati Jagadish, Australian National University, Australia delivered the MRSI Silver Jubilee International Medal Lecture on, ‘Semiconductor nanowires for optoelectronics and energy applications’.

The Technical sessions deliberated on subject areas like Superconductivity & Materials Science, Energy, Theoretical/Computational Material Sciences, Nano-Materials & Devices and Fine Chemicals & Soft Materials. It is also worth to mention that the G C Jain Memorial Award for best PhD thesis was awarded to Dr D Durgalakshmi, University of Madras and she delivered a lecture titled, 'Investigation on various forms of nanobioglass 45S5 for orthopaedic and dentin regeneration'. In addition, six posters presented by CVS Rosely of CSIR-NIIST Thiruvananthapuram, K Deka of Tezpur University, RR Behera of IIT Gauhati, RP Bhattacharjee of CSIR-NEIST Jorhat, S Sutradhar of IIT Chennai, and A Roy of CSIR-CGCRI Kolkata were adjudged and awarded as the best posters.

The symposium concluded with a valedictory function Chaired by Dr Suresh Das, President MRSI. Prof S B Krupanidhi gave an overview of the four-day program. The MRSI North East Chapter was formed giving a major boost to the materials research in this part of the country. The Symposium was attended by around 430 participants from various institutes, organizations and universities of the country.

**Dr. S P Sengupta**  
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**Enrolled between January 1 and June 30, 2016**

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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 (2015, 2016 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 31<sup>st</sup>, 2016.**

## 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

# **IUMRS – ICYRAM 2016**

**December 11-15, 2016  
Indian Institute of Science  
Bangalore 560 012, India**

**Website: [www.iumrs-icyram2016.org.in](http://www.iumrs-icyram2016.org.in)  
Email: [secretariat@iumrs-icyram2016.org.in](mailto:secretariat@iumrs-icyram2016.org.in)**

## **IMPORTANT DATES**

<b>Preregistration opens:</b>	<b>1<sup>st</sup> March 2016</b>
<b>Abstract Submission opens:</b>	<b>1<sup>st</sup> May 2016</b>
<b>Abstract Submission closes:</b>	<b>15<sup>th</sup> August 2016</b>
<b>Communication of acceptance of Abstract :</b>	<b>1<sup>st</sup> September 2016</b>
<b>Online registration with payment: opens</b>	<b>1<sup>st</sup> September 2016</b>
<b>Online registration with payment closes:</b>	<b>5<sup>th</sup> December 2016</b>

# AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 27 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, 2016 is:

<b>Life Members</b>	<b>: 3744</b>
<b>Honorary members</b>	<b>: 169</b>
<b>Patron members</b>	<b>: 83</b>

## Awards and Honours

### International Award for Materials Science and Technology

This prize is awarded once in 2 years.

Prof. CNR Rao, JNCASR, Bangalore (2009)  
Prof. Martin Jansen, Max-Planck Institut, Germany (2011)  
Prof. Sir. Richard Friend, Cambridge University, UK (2013)  
Prof. Peter Bruce, Oxford University, UK (2015)

### 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)  
Prof. D D Sarma, IISc, Bangalore (2015)  
Prof. Umesh V Waghmare, JNCASR, Bangalore (2016)

### MRSI Silver Jubilee International Medal

Prof. A Suzuki, Yokohama National University, Japan (2015)  
Prof. C Jagadish, Australian National University, Australia (2016)

### 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)  
Prof. A K Raychaudhuri (2015)  
Dr. G Sundararajan, ARCI, Hyderabad (2016)

### 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)  
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)  
Prof. Dhananjai Pandey, BHU, Varanasi (2015-2016)  
Prof. Bhupendra N Dev, IACS, Kolkata (2015-2016)  
Prof. G K Ananthasuresh, IISc, Bangalore (2015-2016)

### **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)  
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)  
Prof. Samit K Ray, IIT, Kharagpur (2015)  
Dr. George Thomas, IISER, Trivandrum (2015)  
Dr. S.M. Yusuf, Bhabha Atomic Research Centre, Mumbai (2016)  
Prof. Tanusri Saha Dasgupta, SNBNCBS, Kolkata (2016)  
Dr. Vijayamohan K Pillai, CECRI, Karaikudi (2016)

### **MRSI Silver Jubilee Medal**

Dr. Satish Ogale (NCL, Pune) (2014)  
Prof. G P Das (IACS, Kolkata) (2014)  
Dr. Pushpito K Ghosh (CSMCRI, Bhavnagar, Gujarat) (2014)  
Prof. P S Anil Kumar (IISc, Bangalore) (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 2016 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, Banalore  
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. Vijayamohanan, NCL, Pune  
Prof. U. V. Varadaraju, IIT, Chennai

**1997**

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

**1998**

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

**1999**

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

**2000**

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

**2001**

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

**2002**

Prof. Ashok Misra, IIT, Bombay, Mumbai  
Dr. Bhuvaneshwar G S, SCTIMST, Thiruvananthapuram  
Dr. Chaplot S L, BARC, Mumbai  
Prof. Damodara Das V, IIT, Madras, Chennai  
Prof. Devendra Kumar, BHU, Varanasi  
Kumar A N, Indian institute of Technology, Delhi  
Majumdar S D, ACC, Thane  
Pawar S H, Shivaji University, Kolhapur  
Prof. Pradeep T, IIT, Madras, Chennai  
Prof. Ramakrishnan S, IISc, Bangalore  
Dr. Shobhana Narasimhan, JNCASR, Bangalore  
Prof. Shrikant V Joshi, ARC-I, Hyderabad  
Dr. Subramanian P N, VSSC, Thiruvananthapuram

**2003**

Dr. Amarnath Sen, CGCRI, Kolkata  
Dr. Bharathi A, IGCAR, Kalpakkam  
Prof. Bhupendra N Dev, Institute of Physics, Bhubaneswar  
Prof. Devang V Khakhar, IIT, Mumbai  
Prof. Jyothindra Kumar K, Govt. Dental College,  
Thiruvananthapuram

Dr. Kothiyal G P, BARC, Mumbai  
Dr. Maitra A N, Univ. of Delhi, Delhi  
Dr. Mitra R, IIT, Kharagpur  
Dr. Murali Sastry, NCL, Pune  
Prof. Narayanasamy A, Univ. of Madras, Chennai  
Dr. Pillai C K S, RRL, Thiruvananthapuram  
Prof. Sekhon S S, Guru Nanak Dev Univ, Amritsar  
Prof. Shanker Ram, IIT, Kharagpur

**2004**

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

**2005**

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

**2006**

Dr. Amlan J Pal, IACS, Kolkata  
Dr. Ganguli A K, IIT, Delhi  
Dr. George Thomas K, RRL, Thiruvananthapuram  
Prof. Kashyap B P, IIT, Mumbai  
Dr. Muraleedharan Nair K G, IGCAR, Kalpakkam  
Dr. Patra A. CGCRI, Kolkata  
Dr. Poonam Tandon, Lucknow University, Lucknow  
Prof. Sampath S, IISc, Bangalore  
Dr. Sharada Srinivasan, NIAS, Bangalore  
Dr. Shivaprasad, S M, NPL, New Delhi  
Prof. Siddhartha 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

## 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

#### 2015

Dr. Nikhil R Jana, IACS, Kolkata  
Prof. Dr. S Gopukumar, CERI, Karaikudi  
Prof. P P Chattopadhyay, Indian Institute of Engineering Science and Technology, Kolkata  
Dr. Beena Rai, Tata Research Development & Design Centre, Pune  
Dr. V Kumar, C-MET, Thrissur  
Prof. K RS Priolkar, Goa University, Goa  
Dr. (Mrs).Chandana Rath, BHU, Varanasi  
Dr. N V Chandra Shekar, IGCAR, Kalpakkam  
Prof. K K Bamzai, University of Jammu, Jammu  
Prof. Priya Mahadevan, S N Bose Centre, Kolkata  
Dr. V M Jali, Gulbarga University, Gulbarga  
Prof. V Adyam, IIT, Kharagpur  
Dr. R Subasri, ARCI, Hyderabad  
Dr. Ajay Dhar, NPL, New Delhi  
Dr. G T Chandrappa, Bangalore University, Bangalore

#### 2016:

Dr. Sebastian C Peter, JNCASR, Bangalore  
Dr. S Vasudevan, CECRI, Karaikudi  
Dr. Debashish Sarkar, NIT, Rourkela  
Dr. R Ranjith, IIT, Hyderabad  
Dr. Mahesh Kumar, IIT, Jodhpur  
Dr. Anirban Bhattacharyya, University of Calcutta, Kolkata  
Dr. Tarun Kumar Sharma, RRCAT, Indore  
Dr. Basanta Roul, BEL, Bangalore  
Dr. Bhoje Gowd, NIIST, Trivandrum  
Prof. Subhananda Chakrabarti, IIT, Mumbai  
Dr. Mrinal Pal, CGCRI, Kolkata  
Dr. Pallab Banerji, IIT, Kharagpur  
Dr. Rajesh K Sharma, SSPL, Delhi  
Prof. Indra Dasgupta, IACS, Kolkata  
Prof. Kalyan Mandal, S N Bose Centre, Kolkata  
Dr. Ranjan Mittal, BARC, Mumbai  
Dr. B K Panigrahi, IGCAR, Kalpakkam  
Prof. Mushahid Husain, Rohilkhand University, Barielly

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

#### 1990:

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

#### 1991:

“Thermodynamic properties of Pt<sub>5</sub>La, Pt<sub>5</sub>Ce, Pt<sub>5</sub>Pr, Pt<sub>5</sub>Tb and Pt<sub>5</sub>Tm, intermetallics” by Prof. K T Jacob, IISc, Bangalore and Prof. Y Waseda, Tohoku University, Sendai, Japan, Bulletin of Materials Science, Vol. 13, (1990), p 235

#### 1992:

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

#### 1993:

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

#### 1994:

“EXAFS: Determination of Cation Distribution in 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  $^{181}\text{Ta}$  TDPAC' by R Govindaraj, Materials Science Division, IGCAR, Kalpakkam, K P Gopinathan, Dept. of Physics, Cochin University of Science & Technology, Cochin and B Viswanathan, Materials Science Division, IGCAR, Kalpakkam, Bulletin of Materials Science, Vol. 23, No. 3, June (2000), p 201

**2002:**

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

**2003:**

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

**2004:**

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

**2005:**

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

**2006:**

'Polyvinyl alcohol l-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  $\text{Mn}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$  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  $\text{Ba}_{1-x}\text{Sr}_x\text{SnO}_3$  ( $x = 0-1$ ) 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  $\text{TiO}_2$  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:**

"Impact of interfacial interactions on optical and ammonia sensing in zinc oxide/polyaniline structures", by Mansi Dhingra, Lalit Kumar, P Senthil Kumar, S Annapoorni, Department of Physics and Astrophysics, University of Delhi, Delhi 110 007 and Sadhna Shrivastava, Department of Physics, Dyal Singh College, University of Delhi, Lodhi Road, New Delhi 110 003, Bulletin of Materials Science, Vol. 36, No. 4, August 2013, pp 647

**2015**

"Studies on interfacial interactions of  $\text{TiO}_2$  nanoparticles with bacterial cells under light and dark conditions\_" by SWAYAMPRAVA DALAI, SUNANDAN PAKRASHI, SUJAY CHAKRAVARTY, SHAMIMA HUSSAIN, N CHANDRASEKARAN AND AMITAVA MUKHERJEE

## **BEST POSTER PRIZES**

### **2004:**

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

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

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

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

### **2005:**

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

'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<sub>2</sub> Thin Films on Glass' by Mahata S and Kundu Debtosh, CGCRI, Kolkata

'Observation of TO<sub>1</sub> soft mode in SrTiO<sub>3</sub> 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<sub>3</sub> 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<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>]-xPbTiO<sub>3</sub>' 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<sup>III</sup> acetylacetonate complexes on the hydrophilicity of nanocrystalline sol-gel derived TiO<sub>2</sub> 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:MgB<sub>2</sub>' B B Sinha, S C Chougale and S H Pawar, Shivaji University, Kolhapur

'Optical and Switching Studies on Near-Stoichiometric Nd:Zn:LiNbO<sub>3</sub> Crystals' J N Babu Reddy, K Ganesh Kamath, H L Bhat and Suja Elizabeth, Indian Institute of Science, Bangalore

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

#### 2009:

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

"Preparation of Al-Si graphite particulate reinforced composite through stir coating method and their structure property correlation" G Raja Ram, M Thirumurugan, S Kumaran and T Srinivas Rao, National Institute of Technology, Trichy.

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

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

"Influence of electron beam irradiation on cationic migration and structural morphology of  $\text{CuCoFe}_2\text{O}_4$  nanoparticles" M Balaji and D Pathinettam Padiyan, Manonmaniam Sundaranar University, Tirunelveli.

"Resonance energy transfer between dye and QD's" Tapasi Sen, Krishna Kanta Halder 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 Kuppusami, E Mohandas and D Santikumar, IGCAR, Kalpakkam and G Balakrishnan, National Institute of Technology, Tiruchirappalli.

'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 TiO<sub>2</sub> 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-TiO<sub>2</sub> 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 Ca<sup>2+</sup> 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  $\text{CdIn}_2\text{S}_4$  via hydrothermal and microwave methods”, Sunil N Garaje, Sanjay K Apte, Sonali D Naik and Nharat B Kale, C-MET, Pune.

### 2013

“Glassy behavior in multiferroic  $\text{Ba}_3\text{Nbf}_3\text{Si}_2\text{O}_{14}$  “ by Satyapal Singh Rathore and Satish Vitta, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai – 400 076, India

“Rare Earth Intermetallic compounds  $\text{RCoNi}$  (R = Gd, Tb, Dy and Ho) for low temperature magnetic refrigeration applications” by Rajib Mondal, Department of Physics, Indian Institute of Technology Madras, Chennai 600 036, R. Nirmala, Department of Physics, Indian Institute 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  $\text{SnO}_2$  based sensors for  $\text{NO}_2$  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

### 2015

“Energy-Savvy Synthesis of Ti-Based Anodes for Li-Ion Batteries” by S Ghosh, and P Barpanda, Materials Research Centre, Indian Institute of Science, Bangalore, Y Kee, and S Okada, Institute for Materials Chemistry and Engineering, Kyushu University, Japan.

“Development of a compact water purification media of a sintered porous matrix of Rice-Husk ash and APTES-Functionalized clay impregnated with Nano-Silver” by Rajshree Patil, Shankar Kausley, Dilshad Ahmad and Chetan Malhotra, Tata Research Development and Design Centre, Pune.

“Structural, Microscopic, Spectroscopic and Electrical Properties of Nanosized Cerium Orthovanadate” by Seema Verma, Bindu Raina and K K Bamzai, University of Jammu, Jammu.

“Silicon Carbide (SiC) Single Crystal Growth by Physical Vapor Transport and Challenges” by Sandeep Mahajan, R V Rokade, S T Ali and N R Munirathnam, Centre for Materials for Electronics Technology (C-MET), Hyderabad, S Deb, D V Sridhararao, L Durai and V V Bhanuprasad, Defence Metallurgical Research Laboratory, Hyderabad and A K Garg, Solid State Physics Laboratory, Delhi.

“Multifunctional  $\text{ZnFe}_2\text{O}_4$  Nanoparticle Based Dual Drug Delivery Platform” by Debabrata Maiti, Arindam Saha and P Sujatha Devi, Central Glass and Ceramic Research Institute, Kolkata.

### 2016

“Highly Dispersed Polymer Nanocomposites Prepared by Delamination of Layered Double Hydroxides in Polymer Solutions: Structure and Properties” by C V S Rosely B Nagendra and E B Gowd, CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram

“Mesoporous Carbon Shell Encapsulated MnO Nanoparticles as Novel Biocompatible MR Imaging Probe” by K Deka and P Deb, Tezpur University, Tezpur

“Effect of Surface Texturing on Microstructure and Property of 304 Stainless Steel Laser Surface Alloyed with

SiC-Co” by R R Behera and M R Sankar, Indian Institute of Technology, Guwahati

” Green Synthesis of Silver Nanoparticles using *Ocimum sanctum* Leaf Extract: in vitro Antimicrobial Activity Against Gram-Negative Bacteria” by R P Bhattacharjee A Yadav, L Sakia, P Sengupta and D K Dutta, CSIR-Northeast Institute of Science and Technology, Jorhat

“Non-Enzymatic Glucose Sensor based on Fullerene-C<sub>60</sub> Mediated Gold Nanocomposite” by S Sutradhar A Patnaik, Indian Institute of Technology Madras, Chennai

“Electrospun Zn<sub>2</sub>SnO<sub>4</sub> Photoanodes for Dye Sensitized Solar Cell” by A Roy, P P Das and P S Devi, CSIR-Central Glass and Ceramic Research Institute, Kolkata and M Tathavadekar, CSIR-National Chemical Laboratory, 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.

The MRSI/TIFACLINE Unit has moved 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 229 papers in 1897 pages of scientific articles in 2015. The BMS is available on the internet (<http://www.ias.ac.in/materci/>). Starting January 2007, the Bulletin of Materials Science is co-published with Springer. Along with hyperlinks to other relevant sites, Springer provides access to the content of the Bulletin worldwide in an online full-text database on Springer link ([www.springerlink.com](http://www.springerlink.com)).

MRSI is also bringing out the MRSI Newsletter which includes the ‘Calendar of Events’ where the forthcoming conferences/symposia/workshops related to Materials Science are listed along with the name and address of the contact persons. The MRSI Newsletter is being edited by

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 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 80 members. Prof. O N Srivastava is the President of APAM India Chapter.

### **HONORARY MEMBERS**

*(elected during the period 1990-2016)  
(year in the bracket indicates the year of election)*

- Ajayan P M**, Rice University, USA (2008)
- Akihisa Inoue**, Tohoku University, Japan, (2001)
- Alan Windle**, University of Cambridge, U.K, (2003)
- Alario-Franco M A**, Ciudad Universitaria, Spain, (1992)
- Aleksandrov Kirill S**, L V Kirensky Institute of Physics, Russia, (1992)
- Amelinckx S**, RUCA Dept. of Physics, Belgium, (1991)
- Amiya Mukherjee**, University of California, U.S.A, (1997)
- Andrade Joseph D**, MEB, U.S.A, (1996)
- Angell C A**, Tempe, Arizona, U.S.A, (1999)
- Armstrong Ronald W**, Univ. of Maryland, U.S.A, (1995)
- Arsenault R J**, University of Maryland at College Park, U.S.A, (1995)
- Ashby M F**, University of Cambridge, U.K, (1990)
- Baglin John E E**, IBM Almaden Research Center, U.S.A., (1990)
- 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)  
**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)  
**Claudia Felser**, Max Planck Institute, Stuttgart, Germany (2016)  
**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**, 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)  
**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)  
**Katsuhiko Ariga**, NIMS, Japan (2016)  
**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)

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

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

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

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

**Paul O' Brian**, University of Manchester, UK (2016)

**Peter Bruce**, Oxford University, UK (2015)

**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 für Anorganische Chemie, Germany, (1997)

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

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

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

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

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

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

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

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**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)

**Suzuki A**, Yokohama National University, Japan (2015)

**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: R A Mashelkar</i>
2.	1991	National Physical Laboratory, New Delhi	<i>Chairman: S K Joshi Secretary: B K Das</i>
3.	1992	Indian Institute of Science, Bangalore	<i>Chairman: Ranganathan S Convenor: A M Umarji</i>
4.	1993	Regional Research Laboratory, Thiruvananthapuram	<i>Chairman: A D Damodaran</i>
5.	1994	Research Centre, Imarat, Hyderabad	<i>Chairman: S L N Acharyulu</i>
6.	1995	Indian Institute of Technology, Kharagpur	<i>Chairman: K L Chopra Convenor: H D Banerjee</i>
7.	1996	Indian Institute of Science, Bangalore	<i>Chairman: A K Singh</i>
8.	1997	Bhabha Atomic Research Centre, Mumbai	<i>Chairman: C K Gupta Secretary: G E Prasad</i>
9.	1998	Indian Institute of Technology, Chennai	<i>Chairman: R Natarajan</i>
10.	1999	Regional Research Laboratory, Bhopal	<i>Convenor: T C Rao</i>
11.	2000	Sardar Patel University, Vallabh Vidyanagar	<i>Chairman: V S Patel Convenor: L M Manocha</i>
12.	2001	Saha Institute of Nuclear Physics, Kolkata	<i>Convenor: M K Sanyal</i>
13.	2002	Defence Metallurgical Research Laboratory, Hyderabad	<i>Convenor: D Banerjee</i>
14.	2003	Bhabha Atomic Research Centre, Mumbai	<i>Chairmen: Ashok Misra / S Banerji</i>
15.	2004	Banaras Hindu University, Varanasi	<i>Chairman: P Ramachandra Rao Convenor: S Lele</i>
16.	2005	National Chemical Laboratory, Pune	<i>Chairman: S Sivaram Convenor: K Vijayamohanam</i>
17.	2006	University of Lucknow, Lucknow	<i>Chairman: R P Singh Convenor: Poonam Tandon</i>
18.	2007	National Physical Laboratory, New Delhi	<i>Chairman: Vikram Kumar Convenor: Anil K Gupta</i>
19.	2008	Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram	<i>Chairman: G S Bhuvaneshwar Convenor: D S Nagesh</i>
20.	2009	Saha Institute of Nuclear Physics, Kolkata	<i>Chairman: N R Bandyopadhyay</i>
21.	2010	Sardar Patel University, Vallabh Vidyanagar, Gujarat	<i>Chairman: L M Manocha</i>
22.	2011	AMPRI, Bhopal	<i>Chairman: Anil K Gupta</i>
23.	2012	Thapar University, Patiala	<i>Convenor: K K Raina</i>
24.	2013	IGCAR, Kalpakkam	<i>Chairman: C S Sundar</i>
25.	2014	Indian Institute of Science, Bangalore	<i>Chairman: S B Krupanidhi</i>
26.	2015	University of Rajasthan, Jaipur	<i>Convenor: Usha Singh</i>
27.	2016	NEIST, Jorhat	<i>Convenor: P Sengupta</i>
28.	2017	Indian Institute of Technology, Mumbai	<i>Convenor: Rajiv Dusane</i>



## Calendar of Events

**October 21-23, 2016**, International conference on 'New Scintillations on Materials Horizon, Dr. M. Saleem Khan, *Coordinator ICNSMH-2016*.  
Website: <http://www.icnsmh.com>

**December 11-15, 2016**, International Conference of Young Researchers on Advanced Materials (ICYRAM-2016), IISc, Bangalore, Prof. P S Anil Kumar, Convenor, Department of Physics, Indian Institute of Science, Bangalore 560 012, Telephone : 080-22932882, Fax: 080-23602028,  
Website: [www.iuhrs-icyram2016.org.in](http://www.iuhrs-icyram2016.org.in)

**December 17-19, 2016**, 2nd International Conference on Solar Energy Photovoltaic, organized by School of Electronics Engineering, KIIT University, Bhubaneswar-751024. Conference details available at [www.kiit.ac.in/icsep2016](http://www.kiit.ac.in/icsep2016)

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