



# MRSI Newsletter

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for circulation amongst its members*

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## From the Editors' Desk

The 2<sup>nd</sup> MRS Thailand 2019 international conference was concluded recently (July 10-12, 2019) at Pattaya, Thailand. It was organized by Materials Research Society of Thailand, Suranaree University of Technology, Khon Kaen University and Kasetsart University. There were participants from various countries including India, Japan, Australia, Singapore, UK, USA. The topics covered in the conference were energy materials, graphene and carbon materials, dielectrics, piezoelectrics, ferroelectrics, superconductors, magnetic materials, ceramic and glass technology, polymers/rubber/bioplastics/colloid and emulsion, biomaterials, sensor materials, organic electronics, computational material sciences, etc.

The conference is being organized every alternate year. On behalf of MRS-India, I wish all the success in the future endeavours.

**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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## President's Message

The Materials Research Society of India is a vibrant professional body with more than four thousand members. Several of our members are leaders in their respective areas by virtue of their outstanding calibre and contributions.

I hope that in the coming years the MRSI will continue to grow in strength with increasing participation of researchers both from the academia and industry, enabling the society to play an active role in improving the quality and relevance of materials science research being done in this country.

I compliment Prof. K K Nanda, the Editor of this Newsletter and Prof. P S Anil Kumar, General Secretary, MRSI for their untiring efforts

**Prof. S B Krupanidhi**  
President, MRSI

## **MRSI COUNCIL (2019-2022)**

Founder President	C N R Rao
President	S B Krupanidhi
Past Presidents	Suresh Das G Sundararajan T Ramasami R A Mashelkar D Chakravorty R Chidambaram S K Joshi P Rama Rao
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Joint Treasurer	A R James
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Editor, Newsletter	K K Nanda
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Ex-officio members	Chairman of chapters and subject groups

## **CHAPTERS**

Allahabad	Bangalore	Bhopal	Chennai	Gujarat
Hyderabad	Jamshedpur	Kalpakkam	Kharagpur	Kolkata
Lucknow	Mumbai	New Delhi	Nagpur	Pune
Patiala	Rajasthan	Roorkee	Himachal Pradesh	Thiruvananthapuram
Trichy	Northeast	Varanasi / Kanpur		

## **SUBJECT GROUPS**

Biomaterials (including Soft Matter)	Ceramics and Glasses (including Building Materials)	Computational Materials Science	Electronic Materials	Energy Materials
Growth and Characterization of Nanomaterials	Magnetic and Superconducting Materials	Metals and their Alloys	Optical and Laser Materials	Polymers and Organic Materials
Thin Films, Surfaces and Interfaces				

### **Awards & Distinctions Conferred on Members**

We are happy to report that the following member of Materials Research Society of India has received award and distinction shown against his name. MRSI congratulates them.

Venugopal Rao Soma

FELLOW of the Institute of Physics (United Kingdom)

*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 31<sup>st</sup> 2019**. 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.

## **Minutes of the 30<sup>th</sup> Annual General Meeting of MRSI**

The Thirtieth Annual General Body Meeting of Materials Research Society of India was held on 13<sup>th</sup> February 2019 at 6.30 PM at Indian Institute of Science, Bangalore.

Prof. S B Krupanidhi, Vice President-General Secretary presented the Annual report of MRSI for the year 2018. Some aspects of the report are given below.

1. The APAM India Chapter held its meeting on 12<sup>th</sup> February, 2019.
2. The following paper was adjudged as the best paper in the Bulletin of Materials Science for the year 2017.  
Hydrothermal synthesis of NiFe<sub>2</sub>O<sub>4</sub> nano-particles: structural, morphological, optical, electrical and magnetic properties by K ChandraBabu Naidu and WMadhuri, VIT University, Vellore, Vol 40 No. 2, pp 417-425
3. The statement of accounts for the year 2017-18 and the Provisional statement as on 31.12.2018 were presented at the AGM.
4. No Honorary members were elected for the year 2019
5. The 31<sup>st</sup> Annual General Meeting of MRSI along with the Second Indian Materials Conclave will be held at Kolkata during February 11-14, 2020 in association with the Kolkata chapter of MRSI.

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

## **31<sup>st</sup> AGM of MRSI and SECOND INDIAN MATERIALS CONCLAVE**

The 31<sup>st</sup> Annual General Meeting of MRSI and the Second Indian Materials Conclave will be held at Kolkata, during February **11-14, 2020** at the Saha Institute of Nuclear Physics, Kolkata. This meeting is intended to provide a valuable forum for interaction between scientists & technologists working in the area of materials science in India.

Kindly visit the conference website **[www.mrsiagm2020.org](http://www.mrsiagm2020.org)** for more details.

### **Conference Chairman**

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### **Enrolled between February to July 31, 2019**

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<p>LMB3103 Gajanana Saparey Plot No-30, Road No-3 Sri Sairam Nagar Colony Meerpet, Hyderabad 500097 Tel (Off): 9985193663 Email : g_saparey@rediffmail.com</p>	<p>LMB3104 Prasanta Chowdhury Surface Engineering Division National Aerospace Laboratories Old Airport Road, Kodihalli Bangalore 560017 Tel (Off): 080-25086452 Email : pchowdhury@nal.res.in</p>	<p>LMB3105 Krishna Priya R 44/55, Vanchiatiran New ST, Vadasery, Nagercoil 629001 Tel (Off): 9944978892 Email : priyanaga2111@gmail.com</p>
<p>LMB3106 Vignesh Muthuvijayan #207, BT Block II, Department of Biotechnology , Bhupat and Jyoti Mehta School of Bioscience, Indian Institute of Technology Madras, Chennai 600036 Tel (Off): 044-22574123 Email : vigneshm@iitm.ac.in</p>	<p>LMB3107 Hasmukh Laljibhai Gajera G/504, Vedant City Abrama Road, Mota Varachha Surat 394101 Tel (Off): 9624131112 Email : hgajera3@gmail.com</p>	<p>LMB 3108 Prasada Rao Rayavarapu H.No. 7-16-99, 9<sup>th</sup> Lane Vallurivari Thota Guntur 522002 Tel (Off): 020-25898390 Email : mserper@gmail.com</p>
<p>LMB 3109 Srimathi Krishnaswamy CENCON, Hindustan Institute of Technology and Science (HITS), No. 1, Rajav Gandhi salai Padur, OMR Road, Kelambakkam Chennai 603103 Tel (Off): 044-27274262 Email : ksrinathi@hindustanuniv.ac.in,</p>	<p>LMB 3110 Aravindan Vanchiappan Department of Chemistry Indian Institute of Science Education and Research (IISER) Tirupati Karakambadi Road, Mangalam Tirupati 517507 Tel (Off): 8772500243 Email : aravindan@iisertirupati.ac.in</p>	<p>LMB 3111 Bikas Chandra Das School of Physics, PSB 2301 Indian Institute of Science Education and Research, Thiruvananthapuram Maruthamala Post, Vithura Trivandrum 695551 Tel (Off): 471-2778071 Email : bikas@iisertvm.ac.in</p>

<b>LMB 3112</b> Ekambaram Balaraman Department of Chemistry Indian Institute of Science Education and Research (IISER) Tirupati Tirupati 517507 Tel (Off): 7972421150 Email : eb.raman@iisertirupati.ac.in, balaramanekambaram@gmail.com	<b>LMB 3113</b> Swasti Saxena Applied Physics Department Sardar Vallabhbhai Nation Institute of Technology, Surat 395007 Tel (off): 9833676577 Email : swastisaxenaa@gmail.com	<b>LMB 3114</b> Sudip Malik Indian Association for the Cultivation of Science 2A & 2B Raja S. C. Mullick Road, Jadavpur Kolkata 700 032 Tel (off) : 033-24734971 (Ext- 1564) Email: psusm2@iacs.res.in
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### **CALENDAR OF EVENTS**

<b>October 17-19, 2019</b> , 2nd International Conference on “Recent Trends on Environment Sustainable Development, visit the conference website : <a href="http://www.vgu.ac.in/RTESD-2019/">http://www.vgu.ac.in/RTESD-2019/</a> for more details
<b>December 10-13, 2019</b> , International conference of the Africam Materials Research Society , Tanzania, Contact <a href="mailto:amrstanzania@gmail.com">amrstanzania@gmail.com</a> , website: <a href="http://africanmrs.net/tanzania-2019">http://africanmrs.net/tanzania-2019</a>
<b>February 03-04, 2020</b> , The international conference on computer communication and internet of things (iccciot 2020) Department of Information Technology, Tripura University, Conference Website: <a href="http://www.iccciot.com">www.iccciot.com</a>
<b>February 11-14, 2020</b> , 2 <sup>nd</sup> Indian Materials Conclave and 31 <sup>st</sup> AGM of MRSI, Kolkata, India. Website : <a href="http://www.mrsiagm2020.org">www.mrsiagm2020.org</a>
<b>August 30-Sep 3, 2020</b> , IUMRS-ICEM , Brazil, website : <a href="https://www.sbpmat.org.br/19encontro/">https://www.sbpmat.org.br/19encontro/</a>

**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”**

### **Patron Membership**

Professional Societies, Research bodies, Laboratories and Companies willing to support activities of MRSI (through a one-time contribution of Rs. 1,00,000- 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
-	Free employment Advertisements in the MRSI Newsletter
-	Registration of 2 company representatives in each society meeting at member registration rates

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

***Request for Patron membership may be made to:***

**Prof. P S Anil Kumar**  
**General Secretary, MRSI**  
**Department of Physics**  
**Indian Institute of Science**  
**Bangalore 560 012**  
**Tel : 080-22932882**  
**Email : office@mrsi.org.in**

# **AN UPDATE OF MRSI ACTIVITIES**

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 30 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 July 31, 2019 is:

<b>Life Members</b>	<b>: 4166</b>
<b>Honorary members</b>	<b>: 173</b>
<b>Patron members</b>	<b>: 84</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)  
Prof. A K Cheetham, Univ. of Cambridge, UK (2017)  
Prof. Bernard Raveau, Univ. of Caen, France (2019)

### **CNR Rao Prize Lecture in Advanced Materials**

Prof. S B Krupanidhi (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)  
Prof. V Ramgopal Rao, IIT, Mumbai (2017)  
Prof. A K Tyagi, BARC, Mumbai (2018)  
Prof. Sabu Thomas, M G Univ. Kottayam (2019)

### **MRSI Silver Jubilee International Medal**

*This prize is awarded once in 2 years.*

Prof. A Suzuki, Yokohama National University, Japan (2015)  
Prof. C Jagadish, Australian National University, Australia (2016)  
Prof. Ram Seshadri, University of California, USA (2018)

### **Distinguished Materials Scientist of the Year Award**

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)  
Prof. A K Sood, IISc, Bangalore (2017)  
Prof. D N Bose, St. Xavier's College, Kolkata (2018)  
Prof. S B Krupanidhi IISc, Bangalore (2019)

### **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)  
Prof. Chandrabhas Narayana, JNCASR, Bangalore (2017)

### **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)  
 Prof. Indranil Manna, IIT, Kanpur (2017-2018)  
 Prof. S M Shivaprasad, JNCASR, Bangalore (2017-2018)  
 Dr. A Ajayaghosh, NIIST, Trivandrum (2019-2020)  
 Prof. G U Kulkarni, JNCASR, Bangalore (2019-2020)  
 Prof. P Chakrabarti, IEST, Shibpur (2019-2020)

### **MRSI-ICSC Super Conductivity and Materials Science Annual Prize Winners**

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. Vijayamohanan K Pillai, CECRI, Karaikudi (2016)  
 Prof. S. Swaminathan, Sastra University, Thanjavur (2017)  
 Prof. B R Mehta, IIT, New Delhi (2017)  
 Dr. P Sujatha Devi, CGCRI, Kolkata (2017)  
 Prof. Sandeep Verma, IIT-Kanpur, Kanpur (2018)  
 Prof. Neeraj Khare, IIT, Delhi (2018)  
 Prof. Ashok M Raichur, IISc, Bangalore (2018)  
 Prof. M S Ramachandra Rao, IIT, Madras (2019)  
 Prof. A Sundaresan, JNCASR, Bangalore (2019)

### **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 444 Medals have been awarded. The MRSI Medal winners for the years 1990 to 2019 are listed below:

#### **1990**

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

#### **1991**

Prof. S. Ranganathan, IISc, Bangalore  
 Dr. A. H. Sequeria, BARC, Mumbai  
 Dr. A. K. Sreedhar, SSPL, New Delhi  
 Prof. A. K. Barua, IACS, Kolkata  
 Dr. H. S. Maiti, CGCRI, Kolkata  
 Prof. R. Srinivasan, IIT, Madras  
 Prof. B. K. Sadashiva, RRI, Bangalore  
 Dr. O. P. Bahl, NPL, New Delhi  
 Dr. D. Banerjee, DMRL, Hyderabad  
 Dr. J. Mukherji, CGCRI, Kolkata  
 Prof. D. N. Bose, IIT, Kharagpur

Dr. A. K. Singh, NAL, Bangalore  
Dr. S. K. Sikka, BARC, Mumbai  
Prof. J. Gopalakrishnan, IISc, Bangalore  
Dr. C. K. Gupta, BARC, Mumbai  
Dr. P. Rodriguez, IGCAR, Kalpakkam  
Dr. V. M. Nadkarni, NCL, Pune

### 1992

Dr. B. K. Das, NPL, New Delhi  
Prof. Vikram Kumar, IISc, Bangalore  
Prof. S. Mohan, IISc Bangalore  
Prof. G. Ananthakrishna, IISc, Bangalore  
Dr. R. Thyagarajan, SSPL, Delhi  
Prof. D. Chakravorty, IACS, Kolkata  
Dr. Baldev Raj, IGCAR, Kalpakkam  
Dr. A. D. Damodaran, RRL, Thiruvananthapuram  
Dr. S. R. Rajagopalan, NAL, Bangalore  
Dr. Pradip, TRDDC, Pune  
Prof. P. Pramanik, IIT, Kharagpur  
Dr. Y. R. Mahajan, DMRL, Hyderabad  
Dr. G. Sundararajan, DMRL, Hyderabad  
Prof. K. T. Jacob, IISc, Bangalore  
Prof. P. Ramasamy, Anna Univ. Chennai  
Dr. S. P. Garg, BARC, Mumbai  
Prof. P. Ganguly, NCL, Pune  
Prof. S. Banerjee, NML, Jamshedpur  
Dr. R. Sivakumar, SCTIMST, TRV  
Dr. N. Balasubramanian, Everest Ltd., Bangalore  
Dr. C. G. Krishnadas Nair, HAL, Bangalore

### 1993

Dr. D. Ganguli, CGCRI, Kolkata  
Prof. G. S. Upadhyaya, IIT, Kanpur  
Dr. K. C. Patil, IISc, Bangalore  
Dr. S. K. Date, NCL, Pune  
Dr. L. Madhav Rao, BARC, Mumbai  
Dr. Sanak Mishra, SAIL (R & D) Ranchi  
Dr. Krishan Lal, NPL, New Delhi  
Dr. A K Chatterjee, ACC Ltd, Thane  
Prof. O. Prabhakar, IIT, Chennai  
Dr. S. L. Mannan, IGCAR, Kalpakkam  
Prof. K. V. S. Rama Rao, IIT, Chennai  
Dr. C. Ganguly, BARC, Mumbai  
Dr. R B Subramanyam, DMRL, Hyderabad  
Prof. K A Natarajan, IISc, Bangalore  
Dr. A K Shukla, IISc, Bangalore  
Dr. C K Mathews, IGCAR, Kalpakkam

### 1994

Dr. K. Balakrishnan, CECRI, Karaikudi  
Prof. S. V. Bhat, IISc, Bangalore  
Prof. S. K. Biswas, IISc, Bangalore  
Dr. R. N. Ghosh, NML, Jamshedpur  
Prof. V. V. P. Kutumba Rao, BHU, Varanasi  
Dr. S. K. Mitra, Tata Steel, Jamshedpur  
Dr. T. S. Radhakrishnan, IGCAR, Kalpakkam  
Dr. (Mrs). G. Rohini Devi, DRDL, Hyderabad  
Dr. C. S. Sundar, IGCAR, Kalpakkam  
Prof. M. S. Hegde, IISc, Bangalore  
Prof. H. L. Bhat, IISc, Bangalore  
Dr. D. Bhattacharya, IIT, Kharagpur  
Dr. Sudhir S. Kulkarni, NCL, Pune  
Dr. C. Manohar, BARC, Mumbai  
Prof. A. K. Pal, IACS, Kolkata  
Dr. (Mrs) Indira Rajgopal, NAL, Bangalore

Dr. C. P. Sharma, SCTIMST, Thiruvananthapuram  
Prof. S. V. Suryanarayana, OU, Hyderabad

### 1995

Prof. S. C. Agarwal, IIT, Kanpur  
Dr. A. K. Gupta, NPL, New Delhi  
Prof. T. R. N. Kutty, IISc, Bangalore  
Prof. L. M. Manocha, S. P. University, Vallabh Vidyanagar  
Dr. T. K. Mukherjee, BARC, Mumbai  
Dr. B. K. Sarkar, CGCRI, Kolkata  
Prof. Subrata Ray, Univ. of Roorkee, Roorkee  
Prof. Pushpa Bajaj, New Delhi  
Dr. Pran Kishan, SSPL, Delhi  
Prof. L. K. Malhotra, IIT, New Delhi  
Dr. O. N. Mohanty, TISCO, Jamshedpur  
Dr. V. S. Raghunathan, IGCAR, Kalpakkam  
Prof. S. P. Sengupta, IACS, Kolkata  
Prof. Shamsuddin, BHU, Varanasi

### 1996

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

### 1997

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

### 1998

Dr. A. K. Jha, RRL, Bhopal  
Prof. B. Viswanathan, IIT, Chennai  
Dr. Neeraj Khare, NPL, Delhi  
Dr. (Ms) Prabha R Chatterjee, ICT, Hyderabad  
Dr. P. R. Vasudeva Rao, IGCAR, Kalpakkam  
Prof. S. N. Kaul, Central University, Hyderabad  
Dr. G. Malakondaiah, DMRL, Hyderabad  
Dr. Om Prakash, BHU, Varanasi  
Dr. Prabha D Nair, SCTIMST, Thiruvananthapuram

Dr. P.S.Goyal, BARC, Mumbai  
Mr. K.S.Ghosh, TISCO, Jamshedpur  
Dr. K.B.R.Varma, IISc, Bangalore  
Dr.T.Bandyopadhyaya, CGCRI, Kolkata

## 1999

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

## 2000

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

## 2001

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

## 2002

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

## 2003

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

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

## 2004

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

## 2005

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

## 2006

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

#### 2017:

Dr. Kanishka Biswas, JNCASR, Bangalore  
Dr. T Govindaraju, JNCASR, Bangalore  
Dr. Kana M Sureshan, IISER, Trivandrum  
Dr. R S Jayasree, SCTIMST, Trivandrum  
Dr. Saibal Basu, BARC, Mumbai  
Dr. R Jayakumar, Amrita Institute of Medical Sciences, Kochi  
Dr Partha Bhattacharyya, IEST, Shibpur  
Prof. Prasanta K. Das, IACS, Kolkata  
Prof. Susanta Banerjee, IIT, Kharagpur  
Dr. Biswarup Satpati, SINP, Kolkata  
Dr. Neeraj Sinha, Office of the Principle Scientific Secretary, GoI, New Delhi  
Dr. P V Satyam, IOP, Bhubaneswar  
Dr. Rajendra Singh, IIT, New Delhi  
Dr. Anjan Barman, S N Bose Centre, Kolkata

#### 2018:

Prof. Ranjani Viswanatha, JNCASR, Bangalore

Prof. Ranjan Datta, JNCASR, Bangalore  
Prof. Anantharaman, M. R, Cochin University of Science and Technology, Cochin  
Dr. Bipin Kumar Gupta, NPL, New Delhi  
Prof. S. Arumugam, Bharathidasan University, Trichy  
Prof. Durga Basak, Indian Association for the Cultivation of Science, Kolkata,  
Dr. Govind, NPL, New Delhi  
Dr. A R James, DMRL, Hyderabad  
Prof. Josemon Jacob, IIT, Delhi  
Prof. Jaydeep K Basu, IISc, Bangalore  
Prof. Shaibal Kanti Sarkar, IIT, Bombay  
Dr. Shaibal Mukherjee, IIT, Indore

#### 2019:

Dr. R Vaidhyanathan, IISER, Pune  
Dr. C V Yelamaggad, CENS, Bnagalore  
Dr. M K Jayaraj, CUSAT, Cochin  
Dr. M M Shaijumon, IISER, Trivandrum  
Dr. Vinay Gupta, NPL, New Delhi  
Prof. (Mrs). Anshu Dandia, Univ. of Rajasthan, Jaipur  
Prof. Vivek Polshettiwar, TIFR, Mumbai  
Prof. Saurav Giri, IACS, Kolkata  
Dr. G S Vaitheeswaran, Univ. of Hyderabad, Hyderabad  
Dr. Debabrata Pradhan, IIT, Kharagpur  
Dr. Sreekumar Kurungot, NCL, Pune  
Prof. R Jayavel, Anna University, Chennai

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

##### 1990:

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

##### 1991:

“Thermodynamic properties of  $Pt_5La$ ,  $Pt_5Ce$ ,  $Pt_5Pr$ ,  $Pt_5Tb$  and  $Pt_5Tm$ , intermetallics” by Prof. K T Jacob, IISc, Bangalore and Prof. Y Waseda, Tohoku University, Sendai, Japan, Bulletin of Materials Science, Vol. 13, (1990), p 235

##### 1992:

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

##### 1993:

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

##### 1994:

“EXAFS: Determination of Cation Distribution in Spinels” by Dr. G M Bhongale, Dr. D K Kulkarni, Dept. of Physics, Institute of Science, Nagpur and Dr. V B Sapre, Dept. of Physics, Nagpur University, Nagpur, Bulletin of Materials Science, Vol. 16 (1993), p. 243

##### 1995:

“The role of additives in a complex lithium silicate glass ceramic” by Prof. R N Das, Prof. B K Chandrashekar, Ceramic Technological Institute, Bharat Heavy Electrical Ltd, Bangalore & Prof. K J Rao, Materials Research Centre, Indian Institute of Science, Bangalore, Bulletin of Materials Science, Vol. 17 (1994), p 59

**1996:** No prize was given in 1996.

**1997:**

“Crystallization of glass in Fireclay Refractories” by Dr. S P Choudhury and Dr. T Dutta, CGCRI, Kolkata, Part II and Part III, Bulletin of Materials Science, Vol. 19 (1996), p 373.

**1998:**

‘A New inexpensive method for the preparation of acicular precursors for magnetic recording media’ by M R Anantharaman, K V Joseph and H V Keer, Dept. of chemistry, IIT, Mumbai, Bulletin of Materials Science, Vol. 20, (1997), p 975.

**1999:**

“Short term tissue response to carbon fibre : A preliminary *in vitro* and *in vivo* study’ by Mira Mohanty, T V Kumary, Division of Pathophysiology, SCTIMST, Thiruvananthapuram, Arthur V Lal, Vivarium & Materials Group, SCTIMST, Thiruvananthapuram and R Sivakumar, Biomedical Technology Wing, SCTIMST, Thiruvananthapura, Bulletin of Materials Science, Vol. 21 (6) (1998), p 439.

**2000:**

‘Transmission Electron Microscopy and X-ray diffraction studies of Quantum Wells’, by D V Sridhara Rao, L Muraleedharan, Electron Microscopy Group, DMRL, Hyderabad, G K Dey, Materials Science Division, BARC, Mumbai, S K Halder, G Bhagavannarayan, Materials Characterization Division, NPL, New Delhi, P Banerji, D Pal and D N Bose, Advanced Technology Centre, IIT, Kharagpur, Bulletin of Materials Science, Vol 22, No. 6, October (1999), pp. 947.

**2001:**

‘Helium implanted 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 TiO<sub>2</sub> 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 TiO<sub>2</sub> nanoparticles with bacterial cells under light and dark conditions” by SWAYAMPRAVA DALAI, SUNANDAN PAKRASHI, SUJAY CHAKRAVARTY, SHAMIMA HUSSAIN, N CHANDRASEKARAN AND AMITAVA MUKHERJEE Bulletin of Materials Science, Vol. 37, No. 3, May 2014, pp 371-381”.

### 2016

“Efficient functionalization of poly(styrene) beads immobilized metal nanoparticle catalysts for the reduction of crystal violet” by EAGAMBARAM MURUGAN\* and PARAMASIVAM SHANMUGAM, Department of Physical Chemistry, School of Chemical Sciences, University of Madras, Maraimalai Campus, Guindy, Chennai 600025, Tamil Nadu, has been adjudged as the best paper published in the BMS, Volume (38) No.(3), June 2015, pp.629-637”.

### 2017

Synthesis of 1-D ZnO nanorods and polypyrrole/1-D ZnO nanocomposites for photocatalysis and gas sensor applications” by Pritam Patil, Ganesh Gaikwad, D R Patil and Jitendra Naik, Vol (39), June 2016, pp 655-665

Magnetic and ferroelectric characteristics of Gd<sup>3+</sup> and Ti<sup>4+</sup> co-doped BiFeO<sub>3</sub> ceramics” by Shivanand Madolappa, A V Anupama, P W Jaschin, KBR Varma and B Sahoo, Vol (39), April 2016, pp 593-601

### 2018

Hydrothermal synthesis of NiFe<sub>2</sub>O<sub>4</sub> nano-particles: structural, morphological, optical, electrical and magnetic properties by K Chandra Babu Naidu and W Madhuri, VIT University, Vellore, Vol (40) No. 2, pp 417-425 (2017)

### 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  $\text{CaCO}_3$  using reserve Micelles: source of Calcium Oxide Nanoparticles' by Ahmed J, Vaidya S, Ahmad T and Ganguli A K, Dept. of Chemistry, IIT- Delhi, New Delhi  
'Studies on the performance of Cardanal based adhesives on different Substrates' by V Lity Allen, and Thachil Eby Thomas, Cochin University of Science and Technology, Kochi

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

#### 2007:

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

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

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

"Ultra high purification of gallium through multi-step processing for opto-electronic device applications" U Rambabu, N R. Munirathnam and T L Prakash, Centre for Materials for Electronics Technology, Hyderabad.

"Preparation and characterization of  $\beta$ -PVDF films" Anjana Jain, Kalyan Sundaram, V Vedha Prakash, National Aerospace Laboratories, Bangalore and H.H. Kumar, ARDE, Pune.

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

#### 2008:

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

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

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

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

#### 2009:

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

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

"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.

" $\beta$ - $\text{SiC}/\text{SiO}_2$  nanocables synthesized by APCVD technique", S K Panda, J Sengupta and C Jacob, Indian Institute of Technology, Kharagpur.

"Influence of electron beam irradiation on cationic migration and structural morphology of  $\text{CuCoFe}_2\text{O}_4$  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  $\text{Au@Pd}$  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, 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 CdIn<sub>2</sub>S<sub>4</sub> 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 Ba<sub>3</sub>NbFe<sub>3</sub>Si<sub>2</sub>O<sub>14</sub> “ 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 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, A. K. Nigam, Tata Institute of Fundamental Research, Mumbai 400005,

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

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

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

## 2014:

“Effect of texture coefficient on nanocrystalline SnO<sub>2</sub> based sensors for NO<sub>2</sub> 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- $\text{C}_{60}$  Mediated Gold Nanocomposite” by S Sutradhar A Patnaik, Indian Institute of Technology Madras, Chennai

“Electrospun  $\text{Zn}_2\text{SnO}_4$  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

## 2017:

“Magnetic study of  $\text{BaCrFe}_{10}\text{O}_{19}$  nanoparticles synthesized by sol- gel technique” by M. Govindaraj Shalini, A. Subha, Baidyanath Sahoo.V, Argish, Subasa C. Sahoo, Department of Physics, Central University of Kerala, Kerala

“Encoding Formation Mechanism of Dendritic Fibrous Nanosilica” by Ayan Maity, Avik Das, Debasis Sen, S. Mazumdar, Vivek Polshettiwar, Department of Chemical Sciences, TIFR, Mumbai

“Recent Advancements in optical and magnetic studies on solution processed crystalline organic thin films” by N Rawat, M. Furis, R. Waterman, R. Headrick and S McGill, Department of Physics, University of Vermont, Burlington, USA,

“Modeling of Damaged CFRP for Predicting Stiffness Degradation using Mean Field Micromechanics and Stereology”, by Chandrashekhar P. Hiremath, K Senthilnathan, Anirban Guha, Asim Tewari, Department of Mechanical Engineering, IIT Bombay, Mumbai

“Role of the Edges and Outer Surfaces of Graphenic Structure on Its Li-Storage Behavior” by Farjana J. Sonia, Priya Johari, M. Aslam and Amartya Mukhopadhyay, Department of Metallurgical Engineering and Material Science, IIT Bombay, Mumbai.

“Assessment of Doxorubicin- loaded Dendritic  $\text{Fe}_3\text{O}_4$  Nanoparticles for Magnetic Drug Targeting in Murine Melanoma Model” by Saumya Nigam and D. Bahadur IITB-Monash Research Academy, IIT Bombay, Mumbai

## Prof. Edgar Zanotto Poster Award

“Investigation of structural integrities and stress developments during lithiation / - delithiation in amorphous Si films in the presence of buffer layers”, by Manoj K. Jangid, Farjana J. Sonia, M Aslam, Prita Pant, Amartya Mukhopadhyay Department of Metallurgical Engineering and Material Science IIT Bombay, Mumbai

## 2018

A Comparative study on in-vitro bioactivity of nano-Bioglass synthesized using rice husk and TEOS silica sources” by D. Durgalakshmi, P. Aruna and S. Ganesan, Department of Medial Physics, Anna University, Chennai

“Magnetic properties of Aluminum doped Barium Hexagonal Ferrite” by Shalini Govindaraj M, Subha A,

Arigsh V, Subasa C. Sahoo, Department of Physics, Central University of Kerala, Kasargod

“Synthesis of Nickel Cobalt Manganese Sulphide (NCMS) by electrodeposition for Supercapacitor applications” by Rohit Yadav, Mahesh Verma and Parasharam Shirage, Discipline of Physics & Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore –

“Influence of Al substitution on the crystal structure and dielectric properties of  $\text{Sr}_3\text{YCo}_4\text{O}_{10+\delta}$  Double perovskite” by R. Athira, G Subodh, Department of Physics, University of Kerala, Thiruvananthapuram.

“Structural, surface morphological and spectroscopic study on cobalt sulphate” by S. Aripnammal, Kunchanapalli Ramya and K. Vijayalakshmi, Department of Physics, Gandhigram Rural Institute (Deemed To Be University), Gandhigram

“Synthesis and characterization of Dye sensitized solar cells using natural dye extracted from blue pea flowers” by K. Renukadevi, Department of Physics, G. Venkataswamy Naidu College, Kovilpatti  
K. Gangadevi, Department of Physics, Thiagarajar College, Madurai-625009  
K. Ramachandren, Department of Physics, The Gandhigram Rural University, Dindigul  
R. Srinivasan, Department of Physics, Thiagarajar College, Madurai-

“Preparation and characterization of magnetic nanoparticle encased fluorapatite nanostructure for biomedical applications” by S. Karthi & E. K. Girija, Department of Physics, Periyar University, Salem.

“Defect studies on chemically synthesized FeCo by positron lifetime spectroscopy” by P. Rajesh, Magnetic Materials Laboratory, Department of Physics, National Institute of Technology, Tiruchirappalli, S. Sellaiyan, Division of Applied Physics, University of Tsukuba, Tsukuba, Ibaraki, Japan, T. Arun, Division of Applied Physics, University of Tsukuba, Tsukuba, Ibaraki, Japan  
R. Justin Joseyphus, Advanced Materials Laboratory, Department of Mechanical Engineering, University of Chile, Santiago, Chile.

“Pressure-Induced Quantum Phase Transition in Boron Doped Diamond Thin Film” By S. Arumugam, Centre for High Pressure Research, School of Physics, Bharathidasan University, Tiruchirappalli-L Govindaraj, Centre for High Pressure Research, School of Physics, Bharathidasan University, Tiruchirappalli, R. Thiyagarajan, Post Graduate and Research Department of Physics, Srimad Andavan Arts and Science College(Autonomous), Tiruchirappalli-Dinesh Kumar, Department of Physics, Nano Functional Materials Technology Centre and Materials Research centre, Indian Institute of Technology Madras, Chennai, K. Sethupathi, Department of Physics, Low Temperature Physics Laboratory, Institute of Technology Madras, Chennai, G. Baskaran, The Institute of Mathematical sciences, C.I.T. Campus, Chennai, M. S. Ramachandra Rao, Department of Physics, Srimad Andavan Arts and Science College(Autonomous), Tiruchirappalli

“Exploration of K-ion Intercalation in Iron-Based Mixed-Polyanion Material” by Faraday Materials Laboratory, Materials, Materials Research Centre, Indian Institute of Science, Bangalore - 560012

## **2019 (AGM and 1<sup>st</sup> IndMac 2019)**

Studies on Pulsed Laser Deposited Undoped ZnO and Pr (1 At.%) Doped ZnO Thin Films under Different Oxygen Pressure Conditions by A.Mandal, S.D.Shinde S.K.Adhi and K.P.Adhi

Enhancement of piezoelectric response by tuning structural heterogeneity in  $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$  ceramics by varying A-site stoichiometry by Anupam Mishra and Rajeev Ranjan

Fluorescent and Specific Nanodots for Nanoscopy by Navneet C. Verma, Chethana Rao and Chayan K. Nandi

Gold supracrystal by solvent destabilization precipitation: Effect of the excess ligand by Kaustav Bhattacharjee and B. L. V. Prasad

Graphene Quantum Dots from non-biodegradable polymers exhibiting high ambient oxygen uptake and photocatalytic efficiency for oxidation by Sanjit Mandal and Ujjal K. Gautam

$\text{Ce}_2\text{NDC}_3$ : A Paramagnetic Metal-organic Framework for  $\text{CO}_2$  Capture and  $\text{CO}_2$  Fixation by Sauvik Chatterjee Sabuj Kanti Das and Asim Bhaumik

Physiochemical characterization of cobalt-ferrite nanoparticles and their biomedical application for cancer treatment by S. M. Ansari, B. C. Keswani, R. D. Bhor, K. R. Pai S. Mazumder, D. Sen, C. V. Ramana and Y. D. Kolekar

Metal Free Photoelectrode for Hydrogen Production by Khushboo Soni, Sushil Kumar, S k Riyajuddin, Damini Badhwar, Surender P. Gaur, K. Ojha, Manish Singh and Kaushik Ghosh

$\text{Mn}_2\text{SnS}_4$ : Synthesis and thorough investigation of magnetic and physical properties by Tuhin S. Dash, Som. D. Kaushik Debakanta Samal and Saroj L.Samal

Is ferromagnetism intrinsic or extrinsic in the multiferroic alloy system  $\text{BiFeO}_3\text{-BaTiO}_3$ ? by Avinash Kumar Amit Kumar and Rajeev Ranjan

Structure and Multiferroic Properties of Doubly Ordered Perovskites  $\text{NaLnNiWO}_6$  ( $\text{Ln} = \text{La, Sm, Gd, Eu, Ho, Y}$ ) by P N Ravi Shankar and A. Sundaresan

Donor-p-Acceptor Conjugated Organic Dyes for Efficient Dye-Sensitized Solar Cells by Reethu Haridas A. Vindhysarumi, Saurav Chandrapradhan, V. Jayadev, Suraj Soman, K N Narayanan Unni and Karuvath Yoosaf



Fabrication of Layered  $\text{SnS}_2$  Thin films for Solid-State Sodium-ion batteries by A. Rambabu, P. Barpanda and S.B Krupanidhi

Chemical immobilization of sodium polysulfides by  $\text{MoO}_2$  for high performance room temperature sodium sulfur battery by V.S. Ajay Piriya, M. Kamaraj and S. Ramaprabhu

Nitrogen doped one dimensional graphene wrapped carbon nanotubes for high Electrochemical Performance by Sandhya Rani Mangiseti, Sundara Ramaprabhu and M. Kamaraj

Enhanced Thermoelectric Properties of Fe Substituted  $\text{Sb}_{0.15}\text{Co}_{0.4}\text{Sb}_{1.2}$  by Sanyukta Ghosh, Krushna Kumari Raut and Ramesh Chandra Mallik

Soft Vibration Induced Local Structural Distortion Gives Rise to Ultralow Thermal Conductivity in n-type Te Free  $\text{AgBiS}_2$  by E Rathore, R. Juneja, S. P. Culver, W. G Zeier, A. K Singh and K. Biswas

Fluorescent silver nanoclusters templated by DNA-three way junction nanostructures: synthesis, characterization and applications by K S Sajena, K. V. Sandeepa, M Sreejith and Joshy Joseph

### **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 165 articles in 2018. The BMS is available on the internet (<http://www.ias.ac.in/matasci/>). 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.

MRSI hosted the IUMRS-ICYRAM 2016 during December 11-15, 2016 at Indian Institute of Science, Bangalore

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

### **HONORARY MEMBERS**

*(elected during the period 1990-2019)  
(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)  
**Bando 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)  
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**Day P**, The Royal University of Great Britain,U.K, London, (1994)  
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**Esaki Leo**, Shibaura Institute of Technology, Japan, (1995)  
**Etourneau J**, Institut de Chimie de la Matiere Condensee de, France, (1994)  
**Dresselhaus Mildred S**, Masachusetts Institute of Technology, U.S.A, (1991)  
**Edwards P P**, The University of Birmingham,U.K, (1995)  
**Ferey Gerard**, University of Versailles, France, (1998)  
**Fernando Lund**, CIMAT, Chile, (2004)  
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**Frolov K V**, Russian Academy of Sciences,Russia, (1990)  
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**Greenblatt Martha**, RUTGERS, The State University of New Jersey, U.S.A, (1995)  
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**Greer A L**, Univ.of Cambridge, U.K, (2002)  
**Gschneidner K A**, Iowa State University, U.S.A, (1993)  
**Hagenmuller P**, Univ.of Bordeaux I, France, (1990)  
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**Jain S C**, IMEC, Belgium, (2001)  
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- 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, (2018)
- 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 S 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, Université Paul Sabatier, France, (1993)
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- Ruehle M**, Max-Planck Institut für Metallforschung, (1995)
- Sanjay Mathur**, University of Cologne, Germany (2017)
- 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)
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- 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)
- Sridhar Komarneni**, Penn State University, USA (2017)
- 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)
- Suresh K Bhargava**, RMIT, Australia (2018)
- 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)
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- 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)
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- Vallet Regi**, Universidad Complutense De Madrid, Spain, (1997)
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- Vinayak P Dravid**, Northwestern University, USA (2011)
- Vincenzini P**, International Academy of Ceramics, Italy, (1992)
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- Waseda Y**, Sendai, Japan (2007)
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- 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)
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- Yoshiyuki Kawazoe**, Tohoku University, Japan, (2002)
- Zhao Z S**, National Lab for Superconductivity, China (1991)

**No honorary members were elected in 2019**



## 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
24.	2013	IGCAR, Kalpakkam	<i>Chairman:</i> C S Sundar
25.	2014	Indian Institute of Science, Bangalore	<i>Chairman:</i> S B Krupanidhi
26.	2015	University of Rajasthan, Jaipur	<i>Convenor:</i> Usha Singh

27.	2016	NEIST, Jorhat	<i>Convener : P Sengupta</i>
28.	2017	Indian Institute of Technology, Mumbai	<i>Convener: V S Raja</i>
29.	2018	SRM Hotel, Tiruchirappalli	<i>Convener : Prof. S Arumugam</i>
30	2019	Indian Institute of Science, Bangalore	<i>Conveners : Prof. S B Krupanidhi and Prof. P S Anil Kumar</i>

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