



MRSI Newsletter

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

Volume B 06, Number 3

July 2006

From the Editors' Desk



The tenth International Conference on Advanced Materials (IUMRS-ICAM 2007) is just a year away. MRSI has been given the responsibility of organizing this event. In this connection, committees have been formed to share the various responsibilities related to the event. We strongly request the various committee members to actively help MRSI in organizing this event successfully.

The success of the conference will be judged by the quality of the scientific content. A large number of distinguished scientists, both from India and abroad are expected to attend the conference. We urge the MRSI members to actively participate in this mega event along with their associates to make it a very memorable one.



H L Bhat
R V Krishnan
T G Ramesh
Editors

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

www.igcar.ernet.in/mrsi

In this issue

From the Editors' Desk	1
Awards & Distinctions	2
Final Notification	2
Students' Projects	2
IUMRS-ICAM 2007	2
Notification	3
Obituary	3
GC Jain Memorial Prize	4
New Members	5
Calendar of Events	6
An Update of MRSI Activities	8
Patron Membership	16

MRSI NEWSLETTER

Volume B 06, Number 3

July 2006

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

Editors

MRSI Newsletter

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tgramesh@css.cmmacs.ernet.in

Awards & Distinctions Conferred on Members



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

CNR Rao National Professorship, Government of India

RA Mashelkar (i) D.Lit (*Desikottama*), Visva Bharati, Santiniketan, 2006
 (ii) Hon. Doctorate in Science & Engineering, Lucknow University, 2006
 (iii) Hon. Doctorate in Science & Engineering, Mohanlal Sukhadia University, Udaipur, 2006
 (iv) Suryadatta National Award (2006) by Suryadatta Group of Institutes, Pune

KJ Rao Officer of the Order of the Academic Palms, Government of France.

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

FINAL NOTIFICATION

Many members expressed the opinion during the 17th AGM of MRSI that the distribution of hard copies of Bulletin of Materials Science to MRSI members be discontinued. It has been decided to follow this suggestion. In case any member wishes to receive the hard copy, he / she should write to MRSI Office with a specific request before **September 2006**.

Students' Projects

MRSI will partially support upto 10 projects of students (B.Tech, M.Sc, M.Tech, ME, Ph.D) in the area of Materials Science & Technology under the supervision of a MRSI member. Proposals are invited before **September 30th 2006**.

IUMRS-ICAM 2007

“International Conference on Advanced Materials” Bangalore, India during October 8-13, 2007

MRSI will be organizing the IUMRS-ICAM 2007 in Bangalore, India during October 8-13, 2007. The following symposia are tentatively proposed.

Symposia (Partial & Tentative):

(A) Intelligent Materials	(B) MEMS	(C) Functional Materials	(D) Self Assembly & Nanomaterials
(E) Magnetic & Spintronics Materials	(F) Semiconductors for Opto-electronics	(G) Biomaterials including Materials for Biomedical Applications	(H) Soft Matter
(I) Polymer Materials	(J) Sensor Materials	(K) Photonic Materials / Active Materials/ Electronic Packaging	(L) Multilayered Materials
(M) Hybrid Materials	(N) Energy Materials	(O) Composite Materials	(P) High Strength Materials
(Q) High Performance Structural Materials	(R) Computational Materials Science	(S) Materials for Catalysis	(T) Characterization of Materials
(U) Microscopy of Materials	(V) Materials Synthesis- Novel Approaches	(W) Nanodevices	Forums (Tentative): (X) Materials Education (Y) Green Materials

The programme will consist of (i) Plenary Lectures (ii) Invited Lectures (iii) Oral Presentations (iv) Poster Presentations and (v) Public Lectures. It will be a five day conference with more than ten parallel sessions. For further details refer to website www.icam2007.com

NOTIFICATION

Nominations for the MRSI Awards/Prizes and Medals for the year 2007

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

- i. Distinguished Materials Scientist of the year award (1)
- ii. MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- iii. Distinguished Lecturership (1)
- iv. MRSI Medal Lecture Awards
- v. Election of Distinguished scientists from abroad for Honorary Membership of MRSI

The last date for the receipt of nominations at Bangalore office of MRSI is **July 31, 2006**.

Obituary

Bernhard Ilschner

(Honorary Member of MRSI)

MRSI regrets to announce the passing away of Prof Bernhard Ilschner, Honorary Member of MRSI (1990). Bernhard Ilschner was born on December 13, 1928 in Gdansk, now in Poland. He obtained his Diplom (M Tech) in Physics from the University of Jena, Ph.D in Natural Sciences (Physics) from the University of Bonn. In 1964 he finished his Habilitation from the University of Goettingen.

Bernhard's professional career reveals the extraordinary breadth of knowledge and research capability he had. In 1965 he was appointed the first- ever Professor in Germany of the newly emerging field of Materials Science at the University of Erlangen-Nuremberg. He created a new concept of Materials Institutes in all their ramifications, by helping the establishment of 5 Institutes of Materials at his University. In 1982 he moved to the Federal University of Technology-Lausanne, Switzerland. He continued to be a Professor Emeritus of that institution till the end.

The diversity of the programs of research taken up by Bernhard is mind- boggling. He is celebrated for his contributions to the study of mechanical behaviour of materials. He was a passionate teacher and an outstanding administrator. He had guided 60 Ph.D students and published 150 research papers. His book on "High Temperature Plasticity", published by Springer Verlag in 1973, is well known. In 1990 he was responsible for bringing out 200 articles in the "Werkstoff-Lexikon" which dealt with the impact of materials on the economy and the developments in the Third World.

Prof Ilschner developed deep and abiding connections with Indian metallurgy and materials science starting from his visit in 1973 for the Golden Jubilee at the Banaras Hindu University. He hosted a number of Indian researchers at his institute. In his death India has lost a true friend.

Prof. K.A. Padmanabhan
Jawaharlal Nehru Chair Professor
University of Hyderabad

**G C JAIN MEMORIAL PRIZE FOR THE BEST Ph.D THESIS IN
MATERIALS SCIENCE**

The Council of MRSI decided to award an annual prize one in each calendar year for the best Ph.D. thesis in the area of Materials Science. The funds for this prize have been raised by the Pune Chapter of MRSI. The Guidelines and the Application form are furnished hereunder:

<u>Guidelines</u>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">Photo</div>
<p>1. The prize will be given each year for the best Ph.D thesis in the broad multi disciplinary field of Materials Science, in disciplines such as Condensed Matter Physics, Chemistry, Biology, Metallurgy, Ceramics and Chemical Engineering.</p> <p>2. Criteria for Selection</p> <ul style="list-style-type: none"> - Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2005, 2006 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. <p>3) The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.</p> <p>4) Application in the prescribed format reproduced alongside should be sent to the Secretary, MRSI so as to reach him on or before October 30th, 2006.</p>	<div style="text-align: center; margin-bottom: 10px;"> <p><u>Application Form</u></p> <p><u>G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science</u></p> </div> <p>1. Name of the Applicant :</p> <p>2. Address :</p> <p style="margin-left: 20px;">Office :</p> <p style="margin-left: 20px;">Residence :</p> <p style="margin-left: 20px;">Telephone :</p> <p style="margin-left: 20px;">Fax :</p> <p style="margin-left: 20px;">Email :</p> <p>3. Academic Record (in brief) (Degree/year of passing/University) :</p> <p>4. Title of the Ph.D Thesis:</p> <p>a) The discipline or subject in which the Ph.D degree was awarded :</p> <p>b) Name of the University/Laboratory/Institute: where the Ph.D work was carried out :</p> <p>c) Name of the Research Supervisor :</p> <p>d) Date of submission of the thesis :</p> <p>e) Date of Award of Ph.D :</p> <p>f) One page write-up of the thesis highlighting the prime results (to be enclosed) enclosed/not enclosed</p> <p>5. Recommendation Letters (from the thesis supervisor and 2 other experts) (to be enclosed) enclosed/not enclosed</p> <p>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</p> <p>7. Any additional information</p> <p style="text-align: center;">Date : Signature</p>

New Members

Enrolled between April 1 and June 30, 2006

Life Members

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Patron Members

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Email: vaman@indigenepharma.com

Avestha Gengraine Technologies Pvt Ltd
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Fax: 080-28418780
Email: vinoo@avesthagen.com

CIPLA Ltd (PTR 76)
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Tel: 022-23023272
Fax: 022-23008101
Email: cosecretary@cipla.com

Electronics Corporation of India
(PTR 77)
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Telex: 040-27122535
Email: cmd@ecil.co.in

Arya Vaidya Sala (PTR 78)
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Fax: 0483-2742572
Email: rnd@aryavaidyasala.com

The Godavari Sugar Mills Limited
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Tel: 022-22048272/22858430
Fax: 022-22047297
Email: sangeeta@somaiya.com

National Mineral Development
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Email: brk@nmhc-india.com

Jyoti Limited (PTR 81)
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P.O Chemical Industries
Vadodara 390 003
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Email: vivekekbote@jyoti.com

Gharda Chemicals Limited (PTR 82)
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Tel: 022-26403668, Fax: 022-26404224
Email: kgharda@gharda.com

CALENDAR OF EVENTS (JULY 2006 - OCTOBER 2007)

July 3-6, 2006, V International Conference on Mechanochemistry and Mechanical Alloying, INCOME 2006, Prof. N Lyakhov, Institute of Solid State Chemistry and Mechanochemistry, Kutateladze 18, Novosibirsk 630 128, Russia, Tel: 7 (383) 332 86 83, Fax: 7 (383) 332 28 47, Email: conf@solid.nsc.ru

August 16-19, 2006, International Symposium on Frontiers in Nanoscale Science, Technology and Education, Cochin, India, for details refer website: <http://www.phy.mtu.edu/cochin2006/index.html>

<p>August 20-25, 2006, Eighth International Conference on Nanostructured Materials, NANO-2006, Conference Secretariat, Department of Metallurgy, Indian Institute of Science, Bangalore 560 012, Tel: 080-22932262, 22932558, 22932684, Fax: 080-23601991, 23600472, Email: nano2006@met.iisc.ernet.in, URL: http://met.iisc.ernet.in/~nano2006</p>
<p>September 4-6, 2006, Third International Conference on “Spray Deposition & Melt Atomisation”(SDMA2006) and “Sixth International Conference on Spray Forming “(ICSF VI), Professor Dr.-Ing. Klaus Bauckhage and Dr.-Ing. V. Uhlenwinkel, University of Bremen, Germany, Email: sdma2006@iwt.uni-bremen.de</p>
<p>September 21-26, 2006, Power Beams for clean Environment and Processes, Dr. N K Joshi, Convener, PBAMP-2006, Laser and Plasma Technology Division, Bhabha Atomic Reserch Centre, Trombay, Mumbai 400 085, Tel 022-25590512, Fax: 022-25505151, 25519613, Email: nkjoshi@barc.gov.in</p>
<p>October 12-14, 2006, National Conference on Advances in Technologically important Crystals (NC-ATIC), Dr. Binay Kumar, Secretary, NC-ATIC, Crystal Lab, Department of Physics & Astrophysics, University of Delhi, Delhi 110 007, Mobile: 9818168001, Fax: 011-27667061, Email: nc-atic@physics.du.ac.in, bkumar@physics.du.ac.in, Website: www.du.ac.in/nc-atic/</p>
<p>November 24-25, 2006, Fifth ISAMPE National conference on Composites (INCCOM-5), Theme: Challenges in Composites, G Balasubrahmanyam, Co-Chairman, Organizing Committee, INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad 500 058, Tel : 040-24340974/24340021 Ext. 3684, Fax: 040-24340974, Email: inccom5@gmail.com</p>
<p>December, 21-22, 2006, National Conference on Sensors and Actuators : Emerging Technological Challenges, (NCSA-06), Dr. A. Sen, Convener and Dr. P Sujatha Devi, Joint Convener, NCSA-06, Sensor & Actuator Section, Central Glass and Ceramic Research Institute, Jadavpur, Kolkata 700 032, Tel. (033)2473-3496/69/76/77, Extn. 3449 / 3487 Fax (033)2473-0957, E-mail: asen@cgcri.res.in, psujathadevi@cgcri.res.in, website: http://www.cgcri.res.in/NCSA-06</p>
<p>February 5-9, 2007, A Workshop on Mechanical Behaviour of Systems at Small Length Scales-2, Prof. V. Jayaram, Department of Metallurgy, Indian Institute of Science, Bangalore - 560 012, Phone: (91)-80-2293 3243, Fax: (91) - 80-23601198, Email: qjayaram@met.iisc.ernet.in, workshop@met.iisc.ernet.in, website: http://met.iisc.ernet.in/~workshop2/</p>
<p>July 1-6, 2007, International Conference on Materials for Advanced Technologies (ICMAT 2007), ICMAT Secretariat, Materials Research Society of Singapore, c/o Institute of Materials Research & Engineering, 3, Research Link, Singapore 117 602, Tel: (65) 6874 1975, (65) 6778 1036, Fax: (65) 6777 2393, Email: icmat@mrs.org.sg</p>
<p>October 8-13, 2007, International Conference on Advanced Materials (ICAM 2007), Prof. S B Krupanidhi, Conference Chair, IUMRS-ICAM Secretariat, Materials Research Society of India, Indian Institute of Science, Bangalore 560 012, Tel: 080-22932882, 55334302, Fax: 080-23602028, Email: secretariat@icam2007.com, Website: www.icam2007.com</p>

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

AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 16 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, 2006 is:

Life Members	:	1981
Annual Members	:	141
Honorary members	:	149
Patron members	:	80

Awards and Honours

Distinguished Materials Scientist of the Year Award

DISTINGUISHED MATERIALS SCIENTIST OF THE YEAR AWARD is the highest MRSI 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)

MRSI-ICSC Superconductivity and Materials Science Award (Senior)

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)

This prize is awarded once in three years.

MRSI Distinguished Lecturership Award

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)

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)

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 253 Medals have been awarded. The MRSI Medal winners for the years 1990 to 2006 are listed below:

1990

Prof. S. B. Ogale, University of Poona, Pune
Dr. P. Muralidharan, SSPL, Delhi
Prof. S. V. Subramanyam, IISc, Bangalore

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

1991

Prof. S. Ranganathan, IISc, Bangalore
Dr. A. H. Sequeria, BARC, Mumbai
Dr. A. K. Sreedhar, SSPL, New Delhi
Prof. A. K. Barua, IACS, Kolkata
Dr. H. S. Maiti, CGCRI, Kolkata
Prof. R. Srinivasan, IIT, Madras
Prof. B. K. Sadashiva, RRI, Bangalore
Dr. O. P. Bahl, NPL, New Delhi
Dr. D. Banerjee, DMRL, Hyderabad
Dr. J. Mukherji, CGCRI, Kolkata
Prof. D. N. Bose, IIT, Kharagpur
Dr. A. K. Singh, NAL, Bangalore
Dr. S. K. Sikka, BARC, Mumbai
Prof. J. Gopalakrishnan, IISc, Bangalore
Dr. C. K. Gupta, BARC, Mumbai
Dr. P. Rodriguez, IGCAR, Kalpakkam
Dr. V. M. Nadkarni, NCL, Pune

1992

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

1993

Dr. D. Ganguli, CGCRI, Kolkata
Prof. G. S. Upadhyaya, IIT, Kanpur
Dr. K. C. Patil, IISc, Bangalore
Dr. S. K. Date, NCL, Pune
Dr. L. Madhav Rao, BARC, Mumbai
Dr. Sanak Mishra, SAIL (R & D) Ranchi
Dr. Krishan Lal, NPL, New Delhi
Dr. A K Chatterjee, ACC Ltd, Thane

Prof. O. Prabhakar, IIT, Chennai
Dr. S. L. Mannan, IGCAR, Kalpakkam
Prof. K. V. S. Rama Rao, IIT, Chennai
Dr. C. Ganguly, BARC, Mumbai
Dr. R B Subramanyam, DMRL, Hyderabad
Prof. K A Natarajan, IISc, Bangalore
Dr. A K Shukla, IISc, Bangalore
Dr. C K Mathews, IGCAR, Kalpakkam

1994

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

1995

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

1996

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

1997

Dr. G. Banerjee, CGCRI, Kolkata
Dr. K. Bhanu Sankara Rao, IGCAR, Kalpakkam

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

1998

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

1999

Dr. R Balasubramanian, IIT Kanpur
Dr. G V Kulkarni, JNCASR, Bangalore
Dr. Navin Chand, RRL, Bhopal
Dr. S K Ray, IGCAR, Kalpakkam
Dr. K Sreenivas, SCTIMST, Thiruvananthapuram
Dr. A Venkateswara Rao, Shivaji 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, Madras, Chennai
Dr. Bhuvaneshwar G S, SCTIMST, Thiruvananthapuram
Dr. Chaplot S L, BARC, Mumbai
Prof. Damodara Das V, IIT, Madras, Chennai
Prof. Devendra Kumar, BHU, Varanasi
Kumar A N, Indian Institute of Technology, Delhi
Majumdar S D, ACC, Thane
Pawar S H, Shivaji University, Kolhapur
Prof. Pradeep T, IIT, Madras, Chennai
Prof. Ramakrishnan S, IISc, Bangalore
Dr. Shobhana Narasimhan, JNCASR, Bangalore
Prof. Shrikant V Joshi, ARC-I, Hyderabad
Dr. Subramanian P N, VSSC, Thiruvananthapuram

2003

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

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

2004

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

2005

Dr. Arvind Sinha (NML, Jamshedpur)
Dr. Balasubramanian S (JNCASR, Bangalore)
Dr. Budhani R C (IIT, Kanpur)
Prof. Byrappa K (Mysore University, Mysore)
Prof. Chandrasekaran S (IISc, Bangalore)
Dr. Goutam De (CGCRI, Kolkata)

Dr. Kulshreshtha S K (BARC, Mumbai)
Dr. Radhakrishnan S (NCL, Pune)
Dr. Sulabha Kulkarni (Pune University, Pune)
Prof. Subhadra Chaudhuri (IACS, Kolkata)
Dr. Tyagi A K (BARC, Mumbai)
Dr. Umesh Waghmare (JNCASR, Bangalore)

2006

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

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

1990:

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

1991:

“Thermodynamic properties of Pt₅La, Pt₅Ce, Pt₅Pr, Pt₅Tb and Pt₅Tm, intermetallics” by Prof. K T Jacob, IISc, Bangalore and Prof. Y Waseda, Tohoku University, Sendai, Japan, Bulletin of Materials Science, Vol. 13, (1990), p 235

1992:

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

1993:

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

1994:

“EXAFS: Determination of Cation Distribution in Spinel” 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, Thiruvananthapuram, Bulletin of Materials Science, Vol. 21 (6) (1998), p 439.

2000:

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

2001:

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

2002:

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

2003:

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

2004:

‘Development of fully Injectable Calcium Phosphate Cement for Orthopedic and Dental Applications’ by

Manoj Komath and H K Varma, Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, Bulletin of Materials Science, Vol 26 (4), (2003), p 415.

2005:

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

2006:

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

BEST POSTER PRIZES

2004:

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

‘Modifications to the Phase Diagram of $(1-x)\text{Pb}[(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3]_x\text{PbTiO}_3$ Ceramics’ by Akhilesh Kumar Singh, Dhananjai Pandey and Oksana Zaharko, Banaras Hindu University, Varanasi.

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

‘Spin Probe ESR Studies of $\text{PEG}_x\text{LiClO}_4$ Solid Polymer Electrolyte Systems’ by Shrivalli N Bhat, Ajay Sharma, S Srinivas Rao and S V Bhat, Dept. of Physics, Indian Institute of Science, Bangalore.

2005:

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

‘Field Emission Characteristics of Rose petal like Nanostructured carbon thin films grown by MPECVD Process’ by Srivastava S.K., Shukla A.K., Vanker V.D. and Kumar V, Department of physics, Indian Institute of Technology and National Physical Laboratory, Pusa, Delhi

‘Synthesis and characterization of Zinc oxide Nanoparticles’ by Ashtaputre, S.S., Marathe S.K., Gosavi S.W., and Kulkarni S.K., Dept. of Physics, Pune University

‘Effect of Curing Temperature and Fibre Loading on the swelling behavior of Isora fibre reinforced Natural rubber Composites in oils used in automobiles’ by Lovely Mathew, Joseph K.U. and Rani Joseph Department of Polymer Science and Rubber

Technology, Cochin University of Science and Technology, Cochin

2006

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

‘Superhydrophilic and Photocatalytic properties of Sol-Gel TiO_2 Thin Films on Glass’ by Mahata S and Kundu Debtosh, CGCRI, Kolkata

‘Observation of TO_1 soft mode in SrTiO_3 thin films by THZ-time domain spectroscopy’ by Misra M, University of Lucknow, Lucknow, Kotani K, Kawayama I, Murakami H and Tonouchi M, Osaka University, Japan

‘Stabilization of high temperature form of Orthorhombic CaCO_3 using reserve Micelles: source of Calcium Oxide Nanoparticles’ by Ahmed J, Vaidya S, Ahmad T and Ganguli A K, Dept. of Chemistry, IIT- Delhi, New Delhi

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

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

INFORMATION COLLECTION AND DISSEMINATION SYSTEM

The Technology Information Forecasting and Assessment Council (TIFAC) has identified MRSI as a nodal agency for developing a data base for non-ferrous materials. In this connection, TIFAC has provided financial support to create a data bank on non-ferrous materials at MRSI headquarters, DMRL, Hyderabad dedicated for the purpose of data acquisition and storage pertaining to non-ferrous materials, technologies for their processing and areas of their application. A group of professionals with diverse background in Metallurgy, Computer Science and Library / Information science are working with this project. Presently the data bank consists of 1325 technology records on Non-ferrous Materials and it has published many value-added reports in the area of Non-ferrous Materials.

It has been decided to shift the MRSI/TIFACLINE Unit to ARC-International, Hyderabad. Its scope will be widened to cover the areas of ceramics, powder metallurgy and surface engineering.

PUBLICATIONS

MRSI co-sponsors the publication of Bulletin of Materials Science (BMS) published by the Indian Academy of Sciences. In addition, several special issues of BMS have been brought out. The BMS published 725 pages of scientific articles in 2005. The BMS is available on the internet (<http://www.ias.ac.in/matersci/>). Two special issues of Materials Awareness Bulletin on “Application of Rare Earths” and “Processing Technologies for Advanced

Ceramics and Composites” were brought out as a joint publication of Materials Research Society of India and Defence Metallurgical Research Laboratory.

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 Prof. H L Bhat, Dr. R V Krishnan and Dr. T G Ramesh.

The MRSI has also brought out its updated version of membership directory in 2001. The next edition of this directory is due now. It has an interactive website (www.igcar.ernet.in/mrsi) for interactions amongst its members interested in science and technology of materials.

MRSI has brought out an edited volume of the ‘**Materials Research-Current Scenario and Future Projections**’ edited by R Chidambaram and S Banerjee with special emphasis on the Indian scenario. This book was released in 2003.

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

HONORARY MEMBERS

(elected during the period 1990-2006)

(year in the bracket indicates the year of election)

Akihisa Inoue, Tohoku University, Japan, (2001)
Alan Windle, University of Cambridge, U.K., (2003)
Alario-Franco M A, Ciudad Universitaria, Spain, (1992)
Aleksandrov Kirill S, L V Kirensky Institute of Physics, Russia, (1992)
Amelinckx S, RUCA Dept. of Physics, Belgium, (1991)
Amiya Mukherjee, University of California, U.S.A., (1997)
Andrade Joseph D, MEB, U.S.A., (1996)
Angell C A, Tempe, Arizona, U.S.A., (1999)
Armstrong Ronald W, Univ. of Maryland, U.S.A., (1995)
Arsenault R J, University of Maryland at College Park, U.S.A., (1995)
Ashby M F, University of Cambridge, U.K., (1990)
Baglin John E E, IBM Almaden Research Center, U.S.A., (1990)
Bentini G C, CNR-Via GOBETTI, Italy, (1992)
Blinc R, J. Stefan Institute, Slovenia, (1992)
Bonfield William, University of Cambridge, U.K., (1993)
Brandon D G, Lehigh University, U.S.A., (1993)
Cahn John W, National Institute of Standards and Technology, U.S.A., (1993)
Cahn R W, University of Cambridge, U.K., (1990)

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, 2001, 2002

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

One of the prestigious conferences IUMRS-ICAM is scheduled to be held in Bangalore, during October 8-13, 2007. Some details are in the MRSI Newsletter of April 2006, p. 2.

MRSI is a founding member of Asia Pacific Academy of Materials (APAM). It has continued its strong links with APAM. Prof. CNR Rao was its Founder President. Currently Prof. Kuznetsov is its President. Prof. S V Subramanyam, former General Secretary of MRSI has been elected as the *Secretary-General* of APAM. APAM has members from India, Russia, Japan, China, Uzbekistan, Korea, Taiwan and Australia.

The Chapter holds its annual meeting in conjunction with the AGM of MRSI. APAM-India Chapter has 55 members. There is significant contingent of materials scientists from India at the MRS-USA meetings held at Boston each year. Dr. P Ramachandra Rao, Director, IAT, Pune, is the current President of APAM India Chapter and Prof. O N Srivastava of BHU, Varanasi serves as the Secretary.

Cantor Brian, University of Oxford, U.K., (1996)

Catlow C R A, Davy Faraday Laboratory, The Royal Institution, U.K., (1996)

Chakravorthy B K, CNRS Lepes, 25 Avenue De Martyrs, France, (1991)

Chang R P H, Northwestern University, U.S.A., (1990)

Chaudhari Praveen, Watson Research Centre of Physical Sciences, U.S.A., (1990)

Cheetham A K, University of California, U.S.A., (1994)

Chon Min Che, 6-28, Shinkyodong Chongnoku South, Korea, (1992)

Chowdari BVR, National University of Singapore, Singapore 119260, (2001)

Clearfield A, Texas A & M University, U.S.A., (1996)

Cottrell Alan, University of Cambridge, U.K., (1992)

Cyrot-Lackman Francois, IEPES-CNRSC, BP 166X-380, France, (1991)

Day P, The Royal University of Great Britain, U.K., London, (1994)

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