



MRSI Newsletter

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

Volume B 05, Number 4

October 2005

From the Editors' Desk



In this issue

From the Editors' Desk	1
Awards & Distinctions	2
MRSI Awards-2006	2
IUMRS-ICAM 2007	2
GC Jain Memorial Prize	3
Forty years of ICTP	4
New Members	6
Calendar of Events (Nov 05-Feb 06)	7
Patron Membership	8



H L Bhat
R V Krishnan
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Editors

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

www.igcar.ernet.in/mrsi

MRSI NEWSLETTER

Volume B 05, Number 4

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

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Awards & Distinctions Conferred on Members



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

CNR Rao	Chevalier de La Legion D'Honneur by President of French Republic - 2005
RA Mashelkar	First Asian Scientist to figure in Business Week's Stars of Asia honour list
S Ramakrishnan	SS Bhatnagar Prize in Chemistry-2005
Bhaktha Rath	US presidential Rank Award for meritorious Executives

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

MRSI Awards for 2006 announced

The MRSI awards and Prizes for the year 2006 have been announced. The awardees will deliver lectures at the 17th AGM of MRSI to be held at Lucknow during February 13-15, 2006. The AGM will have a Theme Symposium on "Bio, Biomedical and Natural Materials", Poster Presentation and the following Award/Prize Lectures and Medal Lectures.

Distinguished Materials Scientist of the Year Award Lecture: Prof. N Kumar, RRI, Bangalore

MRSI-ICSC Superconductivity & Materials Science Annual Prize Lectures: Dr. G Sundararajan, ARC-I, Hyderabad, Prof. A K Shukla, CECRI, Karaikudi.

MRSI Medal Lectures:

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

The first announcement of the AGM has been released. Members of MRSI and other scientists/technologists/students are encouraged to send abstracts of contributed papers to: The 17th MRSI AGM Secretariat, Department of Physics, Lucknow University, Lucknow 226 007, Fax 0522-2740467, Email:mrsi@lkouniv.ac.in. The last date for the receipt of abstracts is 30th November, 2005.

IUMRS-ICAM 2007

“International Conference on Advanced Materials” will be held in 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) Nano devices	(F) Magnetic & Spintronics Materials	(G) Semiconductors for Opto-electronics	(H) Biomaterials including Materials for Biomedical Applications
(I) Soft Matter	(J) Polymer Materials	(K) Sensor Materials	(L) Photonic Materials / Active Materials/ Electronic Packaging
(M) Multilayered Materials	(N) Hybrid Materials	(O) Energy Materials	(P) Composite Materials
(Q) High Strength	(R) High Performance Structural Materials	(S) Computational Materials Science	(T) Materials for Catalysis Materials
(U) Characterization of Materials	(V) Microscopy of Materials	(W) Materials Synthesis- Novel Approaches	

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

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:

Guidelines

1. The prize will be given each year for the best Ph.D thesis in the broad multi disciplinary field of Materials Science, in disciplines such as Condensed Matter Physics, Chemistry, Biology, Metallurgy, Ceramics and Chemical Engineering.
2. Criteria for Selection
 - Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2004, 2005 for the current prize)
 - Three recommendation letters should be enclosed including one from the thesis supervisor along with a one-page write-up highlighting the prime results of the thesis.
 - Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.
 - The shortlisted theses will be selected after peer reviewing during November / December. Such shortlisted theses work must be presented by the students concerned in poster/oral format at the next AGM of MRSI. The final selection will be done at the AGM by a suitably constituted committee.
- 3) The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.
- 4) Application in the prescribed format reproduced alongside should be sent to the Secretary, MRSI so as to reach him on or before **October 30th, 2005**.

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

Forty Years of ICTP and its Materials Science Programmes

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Introduction

Physicists love to celebrate anniversaries. It enables them to get together, to evaluate, reflect and look ahead. The year 2004 provided one such opportunity from the life of institutions. We shall briefly review the origins and achievements of, the Abdus Salam International Centre for Theoretical Physics (ICTP), in Trieste, Italy, which completed forty years. We shall also look at the ICTP Programmes contributing to the Materials Science.

ICTP turns Forty

On 4-5 October 2004, ICTP (Abdus Salam International Centre for Theoretical Physics, in Trieste, Italy) celebrated its 40th anniversary with a conference, Legacy of the Future. The conference attracted more than three hundred scientists and policy makers around the world. Significantly, the conference held a roundtable discussion on the future of science in the developing world. ICTP held a Conference on Physics of Tsunamis in March 2005 and scheduled to hold one more meeting in May-2006. Abdus Salam, (co-winner of the 1979 Nobel Prize in Physics, the founder and long-time director of ICTP) spearheaded the efforts to create an international centre dedicated to theoretical physics, that would pay special attention to the needs of scientists from the developing world. ICTP was formally inaugurated in 1964 under the auspices of IAEA (International Atomic Energy Agency) with a generous support from the Italian government. UNESCO (United Nations Educational, Scientific and Cultural Organization) joined in extending support to the new centre in 1970. ICTP is encouraging science in developing countries through its various visiting programmes; and has held over two-thousand meetings attracting over a hundred-thousand visitors. India has a strong presence at the ICTP from the very beginning. Several Indians have served on the ICTP Scientific Council and directed many of the meetings. During 1970-2003, there have been about six-thousand visitors from India totaling to about ten- thousand person-months. Prof. K R Sreenivasan, a distinguished professor of physics and mechanical engineering, is the third director of the ICTP since 03 March 2003. He is the first experimentalist to hold this position. He received PhD in aerospace engineering from the Indian Institute of Science in Bangalore, in 1975.

Several scientific bodies have spawned with headquarters in and around Trieste. Collectively, they are known as the Trieste Science System. These include, the Trieste Astronomic Observatory, working in the city since 1898 and now part of the National Institute of Astrophysics; the AREA Science Park, with campuses at Padriciano and Basovizza where about 1,600 people work in over 70 research laboratories and high-tech companies; the International School for Advanced Studies (Scuola Internazionale Superiore di Studi Avanzati-SISSA); the National Institute of Oceanography and Experimental Geophysics; the International Centre for Genetic Engineering and Biotechnology (ICGEB); the ELETTRA Synchrotron Light Laboratory; the Trieste centres of the National Institute of Nuclear Physics (INFN) and the National Institute for the Physics of Matter (INFM); the National Research Council Institute of Crystallography and the Structure of Matter and the Experimental Thalassographic Institute; the Marine Biology Laboratory at Aurisina; the International Institute for Human Rights Studies; the International Centre for Science and High Technology (ICS); the Academy of Sciences for the Developing World (TWAS, earlier known as the Third World Academy of Sciences; Prof. C. N. R. Rao is the President of TWAS). A central role in this is played by the city's main institution of research-the University of Trieste, with its 12 faculties (including Medicine and Surgery, Engineering and Mathematical, Physical and Natural Sciences), its lecturers and researchers, post-graduate students and 27,000 undergraduate students. As a result of this proliferation of scientific establishments, Trieste and its province can now boast a total of 4,700 people working in R&D, of whom 3,400 are researchers and technology experts-a huge proportion of the overall population.

Materials Science Programmes at ICTP

In the very early years after its formation, ICTP focused its activities on Particle Physics and Plasma Physics. The continuing objective of the Centre has been to foster research in basic and applied sciences and disseminate scientific knowledge in frontier areas of all developing countries. In 1967 the first Winter Course on Condensed Matter Physics (CMP) was organized at ICTP; it lasted three months! Condensed Matter Physics links the microscopic quantum domain with macroscopic properties of matter and has as its goal, an understanding of the structure of matter and behaviour of solids, liquids, and amorphous substances.

The activities in CMP have been held very regularly thereafter under different names. All these activities in CMP have directly and indirectly contributed to high technologies in numerous ways. The Nobel Laureate, A. Kastler served as the Chairman of the ICTP Scientific Council during 1971-1982. Kastler, proposed to introduce Atomic, Molecular and Laser Physics, in the curriculum of the ICTP. The first Winter College on the above disciplines took place in 1973 and was personally directed by him. The Colleges continued till 1985. The 1980's witnessed rapid advances in optical physics and related technologies. This prompted the inclusion of Laser Physics in the Winter Colleges. This resulted in the inclusion of applications of ultrashort laser pulses in ultrafast phenomena of atomic and molecular physics and laser diagnostics. By the end of 1980's ICTP acquired a few lasers and set up a laboratory. Laboratory sessions became a regular feature of the Colleges, leading to interactions between laser physicists and condensed matter physicists. And soon a group designated LAMP (Laser, Atomic and Molecular Physics) was born, which included, laser physics and technology; atomic and molecular spectroscopy and its applications; quantum optics and fibre optics. The activities of the LAMP group include:

- * Theoretical and Experimental Research
- * Laboratory Training in Lasers and Optical Fibres
- * Extended Courses, Colleges and Conferences
- * Publication of LAMP Reports
- * Training in Italian Laboratories
- * Programmes in Developing Countries

The topics of LAMP, being interdisciplinary, are extensively covered in Winter Colleges in Optics held every year; and in the numerous meetings on: Nanoscale Physics; Computational Physics; Synchrotron Radiation; Biophysics; Thin Films; Quantum Optics; and Laser Spectroscopy. During 1987-1991, four Colleges in Materials Sciences were held. Besides, there have been several specialized meetings held regularly, covering topics such as high temperature superconductivity; crystallography; materials for electronics; computational methods in materials science; science on nanoscale; application of synchrotron radiation, to name a few. Soon after the discovery of high temperature superconductivity in 1986 by G. Bednorz and A. Müller, ICTP conducted the first Adriatico Research Conference on High Temperature Superconductivity in July 1987. This conference had about three hundred participants. The following year the conference was conducted with laboratory sessions, which included the preparation and characterization of the superconductor, YBa₂Cu₃O₇. The suggestion for the laboratory session came from several persons including Praveen Chaudhari (then at IBM and now the Director of Brookhaven National Laboratory, USA). This experience gave birth to the High Temperature Superconductivity Laboratory at ICTP. A special meeting by name, Experimental Workshop on High Temperature Superconductors and related Materials was held in 1991. Many of the meeting have resulted in the publications of the proceedings. Materials Sciences is also part of the TRIL (Training in Italian Laboratories) and STEP (Sandwich Training Educational Programme) schemes of ICTP. The ICTP-ELETTRA Users Programme entitles an annual usage of 1500 hrs of beamtime. School on Pulsed Neutron Sources: Enhancing the Capacity for Material Science is underway in October 2005. Several meetings related to Materials Science, have been announced for 2006; complete information is available at the ICTP website. The visitors to ICTP also benefit from the various other institutions in the Trieste Science City. Further information may be obtained from the ICTP website <www.ictp.it>.

NEW MEMBERS

Enrolled between July 1 and September 30, 2005

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Annual Members

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CALENDAR OF EVENTS (NOV 2005-SEPT 2006)

November 14-16, 2005 , 43rd National Metallurgists Day and 59th Annual Technical Meeting, Indian Institute of Metals, Dr. S L Mannan, Convener EDM-2005 & NMD-ATM 2005, Director, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603 102, Tel: 04114-280222, Fax: 04114-280075, Email: nmd2005@igcar.ernet.in
December 1-2, 2005 , Two day seminar on Advances in Metallography and Microstructure -2005, Dr. D Srivastava, Convener, Microstructure-2005, Materials Science Division, Bhabha Atomic Research Centre, Mumbai 400 085, Tel: 022-25595404, 25592242, Fax: 022-25505151, 25505304, Email: microstructure2005@yahoo.co.in
December 5-7, 2005 , National Symposium on Current Trends in Materials Characterization, Dr. S Sundar Manoharan, Materials Chemistry Laboratory, Department of Chemistry, Indian Institute of Technology, Kanpur, Kanpur 208016, Tel: 0512-2597425/6043, Fax: 0512-2597436/7425
December 5-9, 2005 , DAE-SSPS 2005, 50th DAE Solid State Physics Symposium, The Secretary, DAE-SSPS 2005, Technical Physics & Prototype Engineering Division, Bhabha Atomic Research Centre, Mumbai 400 085, Email: sspss@magnum.barc.ernet.in
December 9-10, 2005 , ISAMPE National Conference on Composites, Prof. R Subba Rao, Amrita School of Engineering, Ettimadai, Coimbatore 641 105, Email: isampe@amrita.edu
December 14-16, 2005 , International Conference on Advanced Materials Design and Development (ICAMDD-2005), Dr. Sudipto Ghosh, Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur 721 302, Tel: 03222-283294/95, Fax: 03222-282280, Email: icamdd@adm.iitkgp.ernet.in, sudipto@metal.iitkgp.ernet.in
December 14-17, 2005 , 3rd International Conference on Intelligent Sensing and Information Processing, S. Mohan, website: ICISIP.org
December 20-22, 2005 , International Conference on MEMS and Semiconductor Nanotechnology, Prof. S K Ray, Department of Physics, Indian Institute of Technology, Kharagpur 721 302, Tel: 03222-283528/283838, Fax: 03222-282700/282013, Email: memsnano@iitkgp.ac.in
January 9-13, 2006 , International Workshop on crystal Growth and Characterization of Advanced Materials, Dr. J Kumar, Crystal Growth Centre, Anna University, Chennai 600 025, Tel: 044-22203573/9444125128, Fax: 044-22352870, Email: marsijk@annauniv.edu
January 18-20, 2006 , Materials for Future Energy Systems, Dr. S L Chaplot, Convener, MRSI Discussion Meeting, Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400 085, Tel: 022-25505151, Fax: 022-25505151, Email: chaplot@barc.ernet.in
February 7-9, 2006 , National Conference on Luminiscence and its Applications (NCLA-2006), Dr. S K Omanwar, Convener NCLA-2006, Department of Physics, Amravati University, Amravati 444602, Fax: 0721-2662135/2660949, Email: ncla2006amt@rediffmail.com
February 13-15, 2006 , 17th AGM of MRSI, Dr. Poonam Tandon, Convener, 17th AGM MRSI Secretariat, Department of Physics, University of Lucknow, Lucknow 226 007, Tel: 9415409735, Fax: 0522-2740467, Email: mrsi@lkouniv.ac.in
April 17-21, 2006 , XV symposium on Non-oxide and New Optical Glasses, Dr. K S Sangunni, Convener, ISNOG, Department of Physics, Indian Institute of Science, Bangalore 560 012, Tel: 080-22933279, Fax: 080-23602602, Email: isnog@physics.iisc.ernet.in
June 18-22, 2006 , ELECTROCERAMICS X, Sociedad Espanola de Ceramics y Vidrio, Instituto de Ceramica y Vidrio, Kelsen 5, 28049 Cantoblanco, Madrid, Spain, Tel: +34 91 735 58 40, Fax: +34 91 735 58 43, Email: electroceramics-x@icv.csic.es
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 20-25, 2006 , Eight 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
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

Members are requested to give information about the Conference / 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. 50,000/-) are enrolled as Patron members by the Council of the MRSI.

Privileges of Patron Members

- Publication of their names in MRSI Newsletter
- Free supply of all periodicals published by MRSI such as:
 - Bulletin of Materials Science
 - MRSI Newsletter / MRSI Update
- 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. S B Krupanidhi
General Secretary, MRSI
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Bangalore 560 012

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