



# MRSI Newsletter

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

Volume B 05, Number 1

January 2005

**MRSI greets the fraternity of Physics on the occasion  
of International Year of Physics-2005**

## From the Editors' Desk



It is tragic to note that hundreds of thousands of lives were lost in the aftermath of the tsunami wave that struck the coastlines of several south Asian countries including India on December 26, 2004. Global efforts are under way to provide succour to those who have survived the apocalypse. The engineering and scientific community of the country should particularly ensure that the rehabilitation efforts are least time consuming. In this time of need, we as individuals should rise to do whatever we can to mitigate the misery of these unfortunate lot.

In his address to the Indian Science Congress, that was held in the shadow of the Tsunami tragedy, Honorable Prime Minister exhorted scientists to ensure that the fruits of R & D are relevant and will have benefit for the common man in his every day life.

As you are aware, the 16<sup>th</sup> Annual General Meeting of MRSI will be held at NCL, Pune during 10-12, February, 2005 which includes a special symposium on Automotive Materials. The detailed programme of the meeting appears in this issue. It is expected that we will have a large participation in this meeting.

The Editors wish all the members of the society a very happy and purposeful 2005.



**H L Bhat  
R V Krishnan**  
Editors

*For more details about the activities of MRSI,  
members are advised to visit the  
society's website at*  
**www.igcar.ernet.in/mrsi**

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## **MRSI NEWSLETTER**

**Volume B 05, Number 1**

**January 2005**

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*

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## Awards & Distinctions Conferred on Members



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

<b>T R Anantharaman</b>	Life Time Achievement Award Indian Institute of Metals (2004)
<b>B S Murty</b>	Metallurgist of the year Award Ministry of Steels, Govt. of India (2004)
<b>Baldev Raj</b>	Raman-Chandrasekar Interdisciplinary Award, Acoustical Foundation for Education & Charitable Trust (2004)
<b>Anish Kumar</b>	Young Metallurgist of the year Award Ministry of Steels, Govt. of India (2004)
<b>K Bhanu Sankara Rao</b>	GD Birla Gold Medal, Indian Institute of Metals (2004)
<b>C G Krishnadas Nair</b>	Platinum Medal, Indian Institute of Metals (2004)

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

## Prof. CNR Rao, Founder President, MRSI has been designated as the Chairman of the Science Advisory Council to the Prime Minister

Addressing the 92<sup>nd</sup> session of the Indian Science Congress at Ahmedabad, Hon. Prime Minister Dr. Manmohan Singh said "I am happy to announce that we have constituted a Science Advisory Council with Prof. CNR Rao as its Chairman". Dr. Singh said that he looked forward to the committee's guidance in addressing the challenges facing Indian Science. He further noted that the Indian Science needs a 'new boost' a 'new lease of life' a push into the future and asserted that his government would ensure that the most supportive policy environment is in place. We are sure that under the leadership of Prof. Rao the science and technology in the country will get a much needed boost.

## A NEW BOOK!



### The Chemistry of Nanomaterials Synthesis, Properties and Applications : 2 Volumes

Authors : CNR Rao, JNCASR, Bangalore, India  
: Achim Muller, Univ. of Germany &  
: Anthony Cheetham, Univ. of California, USA

Publisher : John Wiley & Sons

No. of Pages : 761

## NOTICE ANNUAL GENERAL BODY MEETING OF MRSI

The **Sixteenth Annual General Body Meeting** of MRSI will be held on **10<sup>th</sup> February 2005** at 1745 hrs at National Chemical Laboratory, Pune.

The Agenda for the meeting is as follows:

1. Welcome by the President, MRSI
2. Confirmation of the Minutes of the Fifteenth Annual General Meeting and action thereon
3. Presentation of the Annual Report for 2004
4. Report on International links of Materials Research Society of India
5. MRSI-Publications-Report by the Editor
6. Award for the Best Paper published in Bulletin of Materials Science
7. Presentation of the Statement of Accounts for 2004
8. Election of Honorary Members
9. Venue for the 17<sup>th</sup> AGM (2006) & 18<sup>th</sup> AGM (2007)
10. Items from the members
11. Any other matter

***Kindly communicate the details of the AGBM to all the members of MRSI***

# APAM INDIA MEETING, 16<sup>th</sup> ANNUAL GENERAL MEETING OF MRSI & THEME SYMPOSIUM ON MATERIALS FOR AUTOMOTIVE INDUSTRIES

FEBRUARY 9-12, 2005  
NATIONAL CHEMICAL LABORATORY, PUNE

## Tentative Programme

### February 9, 2005

**Venue: Conference Room, 3<sup>rd</sup> Floor**

15.00 Hrs	Introductory Remarks Prof. S K Joshi, President, APAM - India Chapter
15.15 Hrs	APAM Activities Prof. S V Subramanyam, Secretary General, APAM
15.30 Hrs	<i>Materials related challenges to ensure structural Integrity of FBR</i> Dr. Baldev Raj, IGCAR, Kalpakkam
16.00 Hrs	<i>Magnetic Ageing in Low Carbon Steels</i> Prof. O N Mohanty, IIT, Kharagpur
16.30 Hrs	Prof. Dhananjai Pandey, BHU, Varanasi
17.00 Hrs	Vote of Thanks Dr. B K Das, Secretary, APAM-India Chapter
17.30 Hrs	<b>MRSI Council Meeting</b>

### February 10, 2005

08:00 to 09:30	Registration
09:30 to 10:30	Inaugural Session of 16 <sup>th</sup> AGM of MRSI and Presidential Remarks
10:30 to 11:00	Tea
11:00 to 11:50	<i>Potential of High-Temperature Fuel Cells</i> <b>Distinguished Materials Scientist of the Year Award Lecture</b> Prof. K.T. Jacob, Dept. of Metallurgy, IISc, Bangalore
12:00 to 12:30	<b>ML-I</b> <i>Preparation, Characterization And Applications of Diamond And Diamond Like Carbon Films</i> Prof. Subhadra Chaudhuri, Head, Department of Materials Science, IACS, Kolkata.
12:30 to 13:00	<b>ML-II</b> <i>Nano-Structured Materials</i> Prof. S.K. Kulkarni, Dept. of Physics, University of Pune, Pune
13:00 to 14:00	Lunch

14:00 to 15:40	<b>Theme Symposium on Automotive Materials</b> Inaugural remarks by the Chairman:
14:00 to 14:45	<i>Materials Research Challenges for global competitiveness of Indian Automotive Industry</i> Dr. Pawan Goenka, Chief Operating Officer, Mahindra & Mahindra Ltd, Automotive Sector, Mumbai. <b>IL-I</b>
14:45 to 15:15	<i>Trends in the Use of Light Weight Materials in Next Generation Vehicles</i> Dr. Suresh Nagesh, Head, Vehicle Engineering, Daimler-Chrysler Research and Technology India Ltd., Bangalore <b>IL-II</b>
15:15 to 15:45	<i>Metal – Matrix Composites</i> Prof. M.K.Surappa, Dept. of Metallurgy, IISc, Bangalore <b>IL-III</b>
15:45 to 16:00	Tea
16:00 to 16:30	<b>IL-IV</b>
16:30 to 17:00	<i>High Strength Steels</i> Dr. Debashish Bhattacharjee, Chief R&D and Scientific Services, Tata Steels, Jamshedpur <b>IL-V</b>
17:00 to 17:30	<i>Recent advances in modeling metal forming operations and their application in automotive Industries</i> Dr. B.P. Goutam, Head, Metal Forming and Virtual Manufacturing Group, Tata R&D Design Centre, Pune <b>IL-VI</b>
17:30 to 17:45	<i>Introduction to ICMAT 2005 &amp; IUMRS-ICAM2005 Activities</i> Prof. B.V.R. Chowdari, President of MRS - Singapore, Dept. of Physics, National University of Singapore
17:45 to 19:00	<b>Award Presentation and AGM</b>
19:00 to 20:00	<b>Honour Lecture</b> Prof. Hideki Shirakawa, (Nobel laureate in Chemistry for 2000), Institute of Materials Science, University of Tsukuba, Japan,
20:00	Dinner

**February 11, 2005**

9:00 to 9:30	<b>ML-III</b> <i>Studies on catalytic Organic Transformations with Novel Organic-Inorganic hybrid Materials</i> , Prof. S.Chandrasekharan, Dept. of Organic Chemistry, IISc, Bangalore
9:30 to 10:00	<b>ML-IV</b> <i>Electroactive Polymers as active novel Materials for Sensors and Actuators</i> Dr. S. Radhakrishnan, NCL, Pune
10:00 to 10:30	<b>ML-V</b> <i>Biomimetic Synthesis Of Nanoparticles and Their Self-Assembled 3D-Hybrid Composite Structures For Tissue Engineering</i> Dr. Arvind Sinha, Materials Science & Technology Division, NML, Jamshedpur
10:30 to 11:00	Tea
11:00 to 13:00	<b>Theme Symposium on Automotive Materials</b>
11:00 to 11:30	<i>Plastics in Automotive Application</i> Mr. Bhaskar Ghosh, Reliance India Ltd, Mumbai <b>IL-VII</b>
11:30 to 12:00	<i>Future Materials Trends – Emphasis on Ceramics for Engine Components</i> , Mr. B. Bhanot, Director, ARAI <b>IL-VIII</b>
12:00 to 12:30	<i>Challenges in Materials Selection, Fabrication and Design in Two-wheeler Segments</i> N. S. Mohan Ram, Advisor, Advanced Engineering Group, TVS Motor Company Ltd., Hosur, Bangalore <b>IL-IX</b>
12:30 to 13:00	<i>A Perspective on GM Materials Research Initiatives</i> Dr. Suresh Sundarraj, Scientist, India Science Laboratory, General Motors, Bangalore <b>IL-X</b>
13:00 to 14:00	Lunch
14:00 to 15:00	<b>G C Jain Memorial Prize Lectures</b>
15:00 to 16:30	<b>Poster Session I</b> & Tea
16:30 to 17:00	<b>ML-VI</b> <i>Spin state Transitions in Fe (II) Complexes: Materials for Molecular Electronics</i> Dr. S. K. Kulshreshtha, Novel Materials & Structural Chemistry Division, BARC, Mumbai
17:00 to 17:30	<b>ML-VII</b> <i>From the Electronic Motion to the Structure and Properties of Materials</i> Dr. Umesh Waghmare, Theoretical Sciences Unit, JNCASR, Bangalore
17:30 to 18:00	<b>ML-VIII</b> <i>Inorganic-organic Hybrid Nanocomposite Coatings on Plastics by sol-gel Processing</i> Dr. Goutam De, Scientist Sol-Gel Division, CGCRI, Kolkata

18.00 to 18.30

Tea

18:30 to 19:15

**MRSI-ICSC Superconductivity & Materials Science Senior Award**  
(Title awaited)Prof. P. Ramachandra Rao, Vice-Chancellor,  
Banaras Hindu University, Varanasi

19:15 to 20:00

**Cultural Programme**

20.00-

Dinner

**February 12, 2005**

09:00 to 09:30

**ML-IX** *Trends in Combustion Synthesis of Nanocrystalline Ceramic Powders*Dr. A.K. Tyagi,  
Applied Chemistry Division, BARC, Mumbai

09:30 to 10:00

**ML-X** *Superconductivity and Magnetism in Oxide-based Epitaxial Heterostructures*  
Prof. R.C. Budhani, Department of Physics, IIT-K, Kanpur

10:00 to 10:30

**ML-XI** *Dynamics in the solid state*  
Prof. S. Balasubramanian, Molecular Modelling Laboratory, Chemistry & Physics of Materials Unit, JNCASR, Bangalore

10:30 to 11:00

Tea

11:00 to 11:40

*Recent Advances in Ferrofluid Science and Technology***MRSI-ICSC Superconductivity & Materials Science Annual Prize Lecture**

Dr. Baldev Raj, Director, IGCAR, Kalpakkam

11:45 to 12:25

*Chaotic and Turbulent States in Plastic Deformation of Solids***MRSI-ICSC Superconductivity & Materials Science Annual Prize Lecture**  
Prof. G. Ananthakrishna, Materials Research Centre, IISc, Bangalore

12:30 to 13:00

**ML-XII** *Recent Progress in the Materials Processing under Hydrothermal Conditions*

Prof. K. Byrappa, Geology Department, Mysore University

13:00 to 14:00

Lunch

14:00 to 15:30

**Poster Session II**

15:30 to 16:00

Tea

16:00 to 16:40

**Distinguished Lectureship Award***Memory Effects In Magnetic Nanoparticles*Prof. Sushanta Dattagupta, Director,  
S.N. Bose National Centre for Basic Sciences, Kolkata

16:45 to 17:15

**Concluding Session**

and the presentation of G. C. Jain Memorial Prize, Best Poster Prizes, Best Paper Prize etc.

**For further details, contact Dr. K Vijayamohan, Convenor, 16<sup>th</sup> AGM-MRSI Secretariat, Physical & Materials Chemistry Division, NCL, Pune, Ph: 020-25893300 Ext. 2002/2276, Fax : 020-25893044, Email : mrsi2005@dalton.ncl.res.in**

## IUMRS-ICAM 2007

### “International Conference on Advanced Materials” will be held in Bangalore, India during October 8-13, 2007

The International Union of Materials Research Societies (IUMRS) was established in 1991 as an international association of technical groups or societies, which have an interest in promoting interdisciplinary materials research. The IUMRS has adhering Bodies and Institutional Affiliates around the world. MRSI is a founding Adhering Body of (IUMRS) and participates in all its activities.

The IUMRS-ICAM is the most prestigious of all the conferences under the banner of IUMRS. It is held once in two years. E-MRS organized the IUMRS-ICAM during 1997 in Strasbourg, France. Later it was organized by MRS-China in 1999 (Beijing), MRS-Mexico in 2001 (Cancun), MRS-Japan in 2003 (Yokohama). MRS-Singapore will be organizing the IUMRS-ICAM in the year 2005. **We are extremely pleased to announce that the MRSI will be organizing the IUMRS-ICAM 2007 in Bangalore, India during October 8-13, 2007. The venue would be Indian Institute of Science. The following symposia and forums are tentatively proposed.**

#### **Symposia (Partial & Tentative):**

- Intelligent Materials
- Self Assembly & Nanomaterials
- Biomaterials including Materials for Biomedical Applications
- Polymer Materials
- Characterization of Materials
- Composite Materials
- MEMS
- Magnetic & Spintronics Materials
- Soft Materials
- Energy Materials
- Catalysis
- Photonic Materials/Active Materials
- Functional Materials
- Hybrid Materials
- High Strength Materials
- Computational Materials Science
- Sensor Materials

#### **Forums (Tentative):**

- Materials Education
- 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.

**S V Subramanyam,  
Vice President-General Secretary, MRSI**

## New Members Enrolled between Nov 1 and Dec 31, 2004

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## CALENDAR OF EVENTS JAN-AUG 2005

<b>January 21-22, 2005</b> , XV National Conference on Medical Devices & Biomaterials, Quality Assurance, Ethics and Regulatory Issues, D S Nagesh, Organizing Secretary, XVNCSBAOI, BMT Wing, SCTIMST, Poojapura, Thiruvananthapuram 695 012, Tel: 0471-2340801, Fax: 0471-2341814, Email: dsnagesh@rediffmail.com, nagesh@sctimst.ac.in
<b>February 2-4, 2005</b> , National Conference on Luminiscence and its Applications, Dr. B N Lakshmi Narsappa, Convenor, NCLA-2005, Department of Physics, Bangalore University, Bangalore 560 056, Tel: 080-23214001 Ext. 332, 9448116281, Fax: 080-23219295, Email: ncla2005bnla@rediffmail.com
<b>February 9, 2005</b> , APAM India Chapter Meeting, Dr. B K Das, Executive Director, Centre for Materials Electronics Technology (C-MET), Panchawati, Off Pashan Road, Pune 411 008, Tel: 020-25898724, Fax: 020-2589 8085/2589 8180, Email: bkdas@cmetindia.org
<b>February 10-12, 2005</b> 16 <sup>th</sup> AGM of MRSI, The Convener, 16 <sup>th</sup> AGM of MRSI Secretariat, Physical & Materials Chemistry Section, National Chemical Laboratory, Pune 411 008, Tel: 020-25893300 Ext. 2002/2276, Fax: 020-25893044, Email: mrsi2005@dalton.ncl.res.in
<b>February 23-25, 2005</b> , 5 <sup>th</sup> International conference on Advances in Metrology, Dr. Ashok Kumar, Head, Ultrasonics Standard & Convenor, AdMet 2005, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi 110 012, Tel: 011-30950398, 25863139, Fax: 011-25732965, 25726938, Email: admet@nplindia.ernet.in
<b>February 24-26, 2005</b> , Twentieth National Symposium on Cryogenics-2005, Dr. H B Naik, /Dr. K P Desai, Convenor/Joint Convenor, TNSC-2005, Mechanical Engineering Department, S V Institute of Technology, Surat 395 007, Tel: 0261-2223371/72/73/74, Fax: 0261-2228394/2227334, Email: hbnaik@yahoo.com / keyur_desai@yahoo.com
<b>March 14-15, 2005</b> , National Workshop on Instrumentation and Measurement Techniques (IMTECH-2005), Dr. S Arumugam, Convener, IMTECH-2005, High Pressure Low Temperature Lab, Bharathidasan University, Tiruchirapalli 620 024, Tel: 0431-2407057, Fax: 0431-2407045/2407093, Email: sarumugam1963@yahoo.com
<b>May 31-June 3, 2005</b> , E-MRS Spring Meeting 2005, Strasbourg, France, Secretariat: European Materials Research Society, BP 20, F-67037 Strasbourg, France, Tel: +33 (0) 3 88 10 65 43, Fax: +33 (0) 3 88 10 63 43, Email: emrs@phase.c-strasbourg.fr, Website: <a href="http://www-emrs.c-strasbourg.fr">http://www-emrs.c-strasbourg.fr</a>
<b>July 3-8, 2005</b> , IUMRS-ICMAT 2005 and IUMRS-ICAM 2005, ICMAT Secretariat, Materials Research Society of Singapore, c/o Institute of Materials Research and Engineering, 3 Research Link, Singapore 117 602, Tel: (65) 6874 1975, Fax: (65) 6777 2393, Email: icmat@mrs.org.sg
<b>July 18-22, 2005</b> , Powders & Grains 2005, for details visit website <a href="http://www.ical.uni-stuttgart.de/~pg2005">http://www.ical.uni-stuttgart.de/~pg2005</a>
<b>August 23-31, 2005</b> , XX International Union of Crystallography, Scientific Secretariat-Andrea Lenco & Patrizia Rossi, Email: iucr@iucr2005.it

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