



MRSI Newsletter

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

Volume B 08, Number 1

January 2008

From the Editors' Desk



The Nineteenth Annual General Meeting of MRSI will be held at SCTIMST, Thiruvananthapuram during February 14-16, 2008. 'Behaviour of materials under hostile environments' has been chosen as the theme for the special symposium that will be organized during the meeting. This issue contains the details of the meeting.

At the inaugural address of the recently concluded 95th session of the Indian Science Congress, the Prime Minister identified nuclear, solar and clean coal technologies as the most suitable alternative sources of energy. He called upon the scientists to make concerted efforts in these fields which are essential to mitigate the challenges posed to our environment. Obviously, materials scientists have to play a major role in this endeavour.

The editors take this opportunity to wish all the members of MRSI a very happy, prosperous and purposeful year ahead.



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

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MRSI NEWSLETTER

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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:

Editors

MRSI Newsletter

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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.

K L Chopra	'Padma Shri', Govt. of India (2008)
V C Srivastava	Young Metallurgist of the Year Award , Indian Institute of Metals (2007)
Raghavan P	National Mineral Award (2005)
U Ramamurty	Scopus Young Scientist Award (2007)
Bhakta Rath	Acta Materialia J H Holloman Award (2008)

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

NOTICE

ANNUAL GENERAL BODY MEETING OF MRSI

The **Nineteenth Annual General Body Meeting** of MRSI will be held on **15th February 2008** between 18.00 to 19.30 hrs at Achutha Menon Centre (AMC) Auditorium, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Medical College Campus, Thiruvananthapuram 695011.

The Agenda for the Meeting is as follows:

1. Welcome by the President, MRSI
2. Confirmation of the Minutes of the 18th Annual General Body Meeting and action thereon
3. Presentation of the Annual Report for 2007
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 2007
8. Election of Honorary Members
9. Venue for the 20th AGM, 23rd Council Meeting (2009) & 21st AGM, 24th Council Meeting (2010)
10. Reconstitution of the Council of MRSI for the period 2008-2011
11. Items from the members
12. Any other matter

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

**APAM INDIA CHAPTER MEETING, 19th ANNUAL GENERAL MEETING OF MRSI
AND THEME SYMPOSIUM ON MATERIALS FOR HOSTILE ENVIRONMENTS**

**February 14-16, 2008
SCTIMST, Thiruvananthapuram**

TENTATIVE PROGRAMME

<p align="center">FEBRUARY 13, 2008 (Wednesday)</p> <p align="center">Venue: Achutha Menon Centre (AMC) Auditorium SCTIMST, Thiruvananthapuram 695011</p> <p>13:00 – 16:00 hrs MRSI-AGM Registration</p> <p>16:00 – 16:30 hrs TEA</p> <p>16:30 – 18:00 hrs APAM Lectures</p> <p>18:00 – 19:00 hrs Special Lecture–Prof. CNR Rao (to be confirmed)</p>		<p>13.30 – 14.30 hrs LUNCH</p>
<p align="center">FEBRUARY 14, 2008 (Thursday)</p> <p align="center">Venue: Achutha Menon Centre (AMC) Auditorium SCTIMST, Thiruvananthapuram 695011</p> <p>08:00 – 9:00 hrs MRSI-AGM Registration</p> <p>09:00 – 11:00 hrs Inaugural Session</p> <p>09:00 – 09.15 hrs Welcome to the delegates & about theme symposia Dr. G S Bhuvaneshwar, Chairman, MRSI Thiruvananthapuram Chapter</p> <p>09.15 – 09.30 hrs About MRSI Prof. S B Krupanidhi General Secretary, MRSI</p> <p>09.30 – 09.50 hrs Presidential Address Prof. K Mohandas, Director, SCTIMST</p> <p>09.50 – 10.50 hrs Inauguration & Distinguished Materials Scientist of the year award lecture Dr. S Banerjee, BARC, Mumbai (title awaited)</p> <p>10.50 – 11.00 hrs Vote of Thanks Shri. MR Ajith, VSSC, Convenor, MRSI Thiruvananthapuram Chapter</p> <p>11:00 – 11:30 hrs HIGH TEA</p> <p>11:30 – 13:30 hrs Invited/Theme Lectures (IL)</p> <p>IL 1 Dr. K Balasubramanian NFTDC, Hyderabad (title awaited)</p> <p>IL 2 Prof. S B Krupanidhi, IISc, Bangalore <i>Nanostructured Ferroelectrics</i></p> <p>IL 3 Dr. K George Thomas, NIIST, Thiruvananthapuram <i>Optical Properties of Hybrid Nanomaterials</i></p> <p>IL 4 Dr. Anil Bhardwaj, VSSC, Thiruvananthapuram <i>Planetary exploration program: An Indian outlook</i></p>		<p>14:30 – 16:00 hrs Medal Lectures (ML)</p> <p>ML 1 Dr. Amalnerkar DP, C-MET, Pune <i>Synthesis of Nanomaterials: Newfangled Pathways at C-MET</i></p> <p>ML 2 Prof. Arun Chattopadhyay, IIT Guwahati <i>Selective approaches towards functional nanoscale materials</i></p> <p>ML 3 Dr. Ashok Kumar Ray, NML Jamshedpur <i>Efficacy of thermal barrier coatings in turbine applications</i></p> <p>16:00 – 16:30 hrs TEA</p> <p>16.30 – 18.00 hrs Poster Session I</p> <p>18.00 – 19.30 hrs Cultural Programme</p> <p>19.30 hrs DINNER</p>
<p align="center">FEBRUARY 15, 2008 (Friday)</p> <p align="center">Venue: Achutha Menon Centre (AMC) Auditorium SCTIMST, Thiruvananthapuram 695011</p>		<p>09.00 – 10.30 hrs Medal Lectures (ML)</p> <p>ML 4 Dr. Dilshad Akhtar, DMRL, Hyderabad <i>Rapid solidification processing of magnetic materials</i></p> <p>ML 5 Dr. Kotnala R K, NPL, New Delhi <i>Oxide material's role in magneto- optics, CMR and sensor applications along with magnetic standards</i></p> <p>ML 6 Prof. Mohapatra Y N, IIT, Kanpur <i>Organic semiconductors as electronic materials-impact of defect and disorder induced density of states</i></p> <p>10.30 – 11.00 hrs TEA</p> <p>11-00 – 13.30 hrs MRSI-ICSC Lectures</p> <p>11.00 – 12.00 hrs MRSI-ICSC Superconductivity & Materials Science Senior Award lecture</p>

L 1	Dr. J.V. Yakhami, BARC, Mumbai <i>Self-assembly for molecular electronics devices/sensors</i>	ML 12	Dr. Yusuf S M, BARC, Mumbai <i>Role of size, dimensionality and disorder on magnetic properties</i>
12.00 – 13.30 hrs	MRSI-ICSC Superconductivity & Materials Science Annual Prize lectures	10.30 – 11.00 hrs	TEA
L 2	Prof. K S Narayan, JNCASR, Bangalore <i>Photophysics and Device Physics of Organic Solar cell</i>	11.00 – 13.00 hrs	Invited / Theme (II)
L 3	Prof. V Ramgopal Rao, IIT, Mumbai <i>Materials to Nano-scale Devices: Bridging the Gap</i>	IL 5	Dr. Ajaya Ghosh, NIIST, Thiruvananthapuram <i>Self-assembled soft organic materials with optoelectronic functions</i>
13.30 – 14.30 hrs	LUNCH	IL 6	Dr. Sreenivasan K, SCTIMST, Thiruvananthapuram <i>New materials for sustained drug delivery</i>
14.30 – 16.00 hrs	Medal Lectures (ML)	IL 7	Dr. Radhakrishnan, NCL, Pune <i>Conducting polymers for detection of toxic gases and explosive vapours</i>
ML 7	Prof. Mukhopadhyay N K, BHU, Varanasi <i>Externally driven evolution of nanocrystalline phases in complex metallic alloys</i>	IL 8	Dr. Rajeev Basargekar, PRTC, Reliance Industries Limited, Mumbai <i>Commodity plastic materials for rural technology</i>
ML 8	Prof. Ray S K, IIT, Kharagpur <i>Growth and device application of Silicon-Germanium nanostructures</i>	13.00 – 14.00 hrs	LUNCH
ML 9	Dr. Sujatha Devi P, CGCRI, Kolkata <i>New insights into the structure property correlations in oxide-ion conducting materials</i>	14.00 – 15.30 hrs	G C Jain Memorial Lectures
16.00 – 16.30 hrs	TEA	GL 1	Dr. Chandrashekar T Sri Venkateshwara College of Engineering, Bangalore <i>Studies on grain refinement of aluminum alloys</i>
16.30 – 18.00 hrs	Poster Session II	GL 2	Dr. Goyal R K, CMET, Pune <i>Preparation and characterization of high performance polymer matrix composites based on PEEK and AlN/Al₂O₃ dispersions</i>
18.00 – 19.30 hrs	MRSI Awards Presentation and AGBM	GL 3	Dr. Shahzada Ahmed NPL, New Delhi <i>Synthesis and characterization of nanocomposite polymer electrolytes: for electrochemical applications</i>
19.30 hrs	DINNER	GL 4	Dr. Kanade K G, Mahatma Phule Mahavidyalaya, Pune <i>Synthesis and characterization of nanocrystalline metal oxides and sulphides</i>
FEBRUARY 16, 2008 (Saturday)		15.30 – 17.00 hrs	Poster Session III / TEA
Venue: Achutha Menon Centre (AMC) Auditorium SCTIMST, Thiruvananthapuram 695011		17.00 – 18.00 hrs	Concluding Session
09.00 – 10.30 hrs	Medal Lectures (ML)		
ML 10	Dr. Suresh Das, NIIST, Thiruvananthapuram <i>Photoresponsive Soft Materials</i>		
ML 11	Dr. Tyagi A K, IGCAR, Kalpakkam <i>Synthesis and characterization of nanocrystalline ceramic materials and their nanostructured coatings</i>		

For further details contact: The 19th MRSI AGM Secretariat, Biomedical Technology Wing, SCTIMST, Thiruvananthapuram 695 012, Tel: 0471-252021/2520201/2520214, Fax: 0471-2341814, Email: mrsiagm@gmail.com

New Members

Enrolled between November 1 and December 31, 2007

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CALENDAR OF EVENTS

(FEB 2008 - JUNE 2008)

February 4-5, 2008, National Seminar on Advances in Materials Science (NSAMS-2008), Dr. D Pathinettam Padiyan, Convenor, NSAMS-2008, Department of Physics, Manonmaniam Sundaranar University, Tirunelveli 627 012, Email: nsams2@yahoo.co.in, Website: www.msumucie.org/conferences/physics/index.php

February 6-8, 2008, INAE-DAE International Conference on Advances in Manufacturing Technology (ICAMT 2008) for Young Engineers, Dr. BPC Rao, Convenor, ICAMT 2008, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam - 603 102, Tamil Nadu, E-mail: icamt08@igcar.gov.in

February 14-16, 2008 19th Annual General Meeting of MRSI, Dr. G S Bhuvaneshwar, Chairman, MRSI AGM 2008 Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Poojappura, Thiruvananthapuram 695 012, Fax: 0471-2341814, Email: mrsiagm@gmail.com

February 17-21, 2008, POLYCHAR' 16, World Forum on Advanced Materials preceded by one day workshop on polymer characterization and one day preconference mini symposium on greener routes to polymer synthesis, Dr. Poonam Tandon, Executive Secretary-cum-Treasurer, POLYCHAR 16, Physics Department, University of Lucknow, Lucknow-226 007, Tel : 0091-522-2740840, Fax : 0091-522-2740840, Email : contact@polychar16.com

February 28-29, 2008, 6th National Conference on Emerging Trends in Crystal Growth and Nano Materials, Dr. S Jerome Das, Convener-NECAN 2008, Department of Physics, Loyala College, Chennai 600 034, Tel: 044-28178200 Ext. 306, Mobile: 9381190314, Email: jeromensd@yahoo.com

May 28-30, 2008, International Conference on BioMedical Engineering and Informatics 2008 (BMEI 2008), Sanya, Hainan, China, Email: bmei2008@hainu.edu.cn, Website : <http://www.hainu.edu.cn/BMEI2008>

June 26-28, 2008, International Conference on Aerospace Science and Technology, Dr. M N Sathyanarayana, Convenor, for more details refer to the website www.nal.res.in/nal50/incast

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"

Printed at **Navbharath Enterprises**, Seshadripuram, Bangalore - 560 020, India. Ph : 2356 1142 / 2346 4682 e-mail : navbarat@gmail.com

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MRSI Newsletter

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