



MRSI Newsletter

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

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July 2003

From the Editors' Desk

It is heartening to note that a delegation from India consisting of 5 MRSI members participated in the APAM meeting and Indo-Russian Seminar at Novosibirsk, Russia during June 2003. A brief write up of these events is given in this issue.

We are well into the third year of publication of the Newsletter. While it has been generally welcomed by our members, we would like to have specific feed backs from our members about the usefulness of this Newsletter and the ways to improve it. In the absence of any response, we get into a set pattern.

Our Varanasi/Kanpur Chapter is gearing to host the next Annual General Meeting during February 9-11, 2004. Details of the programme will be made available in our next issue.



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

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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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Report on the participation in the APAM meeting and Indo–Russian Seminar

The 10th APAM topical seminar was held during June 2-6, 2003 at Novosibirsk, Russia and was devoted to the theme 'Nanoscience and Technology'. The Indo-Russian seminar was held on 7th June 2003 at Novosibirsk. The Indian team consisted of Prof. D Chakravorty (IACS, Kolkata), Prof. A K Pal (IACS, Kolkata), Prof. S V Subramanyam (IISc, Bangalore), Dr. G U Kulkarni (JNCASR, Bangalore) and Dr. G V Shivashankar (NCBS, Bangalore).

Besides the Indian delegation, scientists from Japan, South Korea, Taiwan and USA attended the APAM conference. Participation from Russian Institutes was commendable. Nearly 250 contributed papers were presented. Amongst them nearly 70% were from Russian scientists and were of high merit. We like to make specific mention to the work carried out on carbon materials by the Russians scientists. Carbon science and in some areas Technology of carbon materials were at their best. The flat-panel displays fabricated at laboratory level were by the Moscow State University group. Prof. S V Subramanyam chaired the General Assembly of APAM on 2nd June. The General Assembly had (a) opening remarks by the country representatives (b) review of 10 years of APAM by Academician Kuznetsov (c) plenary address by Prof. Nishizawa, the Founder President of APAM and (d) election of new members to APAM. It is a matter of pride that 5 scientists from India have been elected to the membership of APAM. The list is given below:

- Prof. J Gopalakrishnan (IISc, Bangalore)
- Prof. L C Gupta (TIFR, Mumbai)
- Dr. J V Yakhmi (BARC-Mumbai)
- Prof. G Ananthakrishna (IISc, Bangalore)
- Prof. M K Sanyal (SINP, Kolkata)

Dr. D Chakravorty delivered the plenary address on '*Indian Initiatives on Nanomaterials*' at the Science session on 2nd June 2003

The Indian participants delivered the following invited talks:

- Dr. D Chakravorty, (IACS, Kolkata), Nanocomposites & Nanowires
- Prof. A K Pal, (IACS, Kolkata), Surface plasmon resonance in nanocrystalline silver particles embedded in SiO₂ matrix: size and shape
- Prof. S V Subramanyam, (IISc, Bangalore), Highly conducting amorphous phase of carbon and effects of intercalation
- Dr. G U Kulkarni, (JNCASR, Bangalore), Metal nanocrystals: size-dependant properties, mesoscopic assemblies and nanolithography
- Dr. G V Shivashankar, (NCBS, Bangalore), Nanomanipulation of DNA, Membranes & Biological Cells

The sessions on Metals, Electrical & Optical Materials, and Other Materials were chaired by Prof. A.K. Pal, Dr. D Chakravorty and Dr. G U Kulkarni respectively.

- Indo-Russian seminar was held on 6th June 2003. Key areas of cutting edge research in nanomaterials were analyzed. It was felt that there is ample scope for joint activity in the area of Nanoscience & Technology.
- It was noted that the ILTP had successfully brought to the forefront many collaborative activities. It is suggested that this must be continued and brought into better focus in the years to come.
- The Indian delegation also made a proposal to hold the APAM meeting in India during 2005. The theme of the conference may be "Advanced Materials with special emphasis on Eco-friendly Materials for Energy".
- It is also proposed to have a Data Network on nanomaterials. The joint proposal would be submitted to ILTP by Dr. D Chakravorty of IACS, Kolkata and Prof. Kuznetsov/Prof. Putilov of Russia.

Members of the Indian delegation place on record their sincere gratitude to Prof. CNR Rao, Prof. Kuznetsov, Department of Science & Technology, Government of India and Russian Academy of Sciences for enabling their participation.

S V Subramanyam

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.

Mashelkar R A	Foreign Associate of the National Academy of Engineering, USA
Navin Chand	LS Jha Award in the area of Engineering & Technology by MP Government
Chatterjee S	Metallurgist of the year 2002- Ministry of Steel, Govt of India
Gopalakrishnan J	APAM Membership
Gupta L C	-do-
Yakhmi J V	-do-
Ananthakrishna G	-do-
Sanyal M K	-do-

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

News from MRSI Chapters

● **Pune Chapter**

The MRSI Pune Chapter was formed on 9th May 2003 with Dr. BK Das of C-Met Pune as the Chairman of the Chapter and Dr. I S Mulla as the Secretary. Pune Chapter organized a seminar on 'Nano-materials: Prospects in India' by Prof. P Pramanik, Dept. of Chemistry, IIT, Kharagpur as an on going activity of MRSI.

● **Thiruvananthapuram Chapter**

The MRSI Thiruvananthapuram Chapter has launched its website **www.mrsitrv.org**. The information provided has been collated from various sources. Suggestions to upgrade and refine the website may be emailed to : Dr. B C Pai, Chapter Chairman at **bcpai@csrrltd.ren.nic.in**

The chapter also held its Chapter Day and AGBM on June 27, 2003 at RRL Trivendrum. It was well attended by the members.

ANNOUNCEMENT

Nominations for the MRSI Awards/Prizes and Medals

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

- Distinguished Materials Scientist of the year award (1)
- MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- 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 31st July 2003

The awards will be presented at the AGM to be held at Varanasi during February 9-11, 2004.

New Members

Enrolled between April 1 and June 30, 2003

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CALENDAR OF EVENTS, AUG 2003-MAY 2004

<p>August 17-21, 2003, International 6th Workshop, Crystal Growth of Organic Materials Conference Secretariat, CGOM-6, Alison Whiteley, CPD Unit, SPEME, University of Leeds, Leeds LS2 9JIT, UK, Tel: + 44 (0) 113 343 2494, Fax: +44 (0) 113 343 2511, Email: cpd.speme@leeds.ac.uk</p>
<p>October 7-9, 2003, ISDTRD-2003, International Seminar on Downsizing Technology for Rural Development, S Khuntia, Convenor ISDTRD-2003, Regional Research Laboratory, Bhubaneswar 751 013, Orissa, Tel: 0674-2581636/638/639 Ext. 522, 307, 340, Fax: 0674-2581637/2581160, Email: khuntias@yahoo.com / skhuntia@rrlbhu.res.in, Website: www.rrlbhu.res.in/isdtrd</p>
<p>October 8-13, 2003, IUMRS-ICAM 2003, Prof. Atsushi SUZUKI / Ms. Rumino MURO / Ms. Kyoko YOSHIMI, C/o Prof. A Suzuki's Laboratory, Faculty of Environment and Information Sciences & Dept. of Materials Science, Yokohama National University, 79-7, Tokiwadai, Hodogaya-ku, Yokohama 240-8501, Japan, Tel: +81-45-339-4305, Email: icam2003@ynu.ac.jp, website: http://www.mrs-j.org/ICAM2003</p>
<p>November 2-5, 2003, PRICM, The Fifth Pacific Rim International Conference on Advanced Materials and Processing, Conference Secretariat, The Chinese Society for Metals, 46 Dongsixi Dajie, Beijing 100711, China, Tel: +86-10-62186661, Fax: +86-10-62180161, +86-10-65124122, Email: csm@pubilc.bta.net.cn, Website: www.csm.org.cn/pricm5/</p>
<p>November 3-6, 2003, International Conference on Advances in Surface Treatment: Research & Applications (ASTRA-2003), Conference Secretariat-ASTRA 2003, International Advanced Research Centre for Powder Metallurgy & New Materials (ARC-I), P.O Balapur, Hyderabad 500 005, Tel: 040-24441077 / 24443167, Fax: 040-24442699 / 24443168, Email: info@astra-2003.org, Website: www.astra-2003.org</p>
<p>November 18-20, 2003, Second National Symposium on PLD of Thin Films (PLD-2003), Dr. Chandra Praksah, Convenor, PLD-2003, Solid State Physics Laboratory, Lucknow Road, Timarpur, Delhi 110 054, Email: pld@vsnl</p>
<p>December 12-15, 2003, 4th Asian Meeting on Ferroelectrics, Conference Secretary of AMF 2003, Materials Research Centre, Indian Institute of Science, Bangalore 560 012, INDIA. Fax: 080-3600683/3600085, Email: amf4@mrc.iisc.ernet.in</p>
<p>December 16-20, 2003, Twelfth International Workshop on the Physics of Semiconductor Devices, The Secretary, Twelfth IWPSD, Department of Electrical Engineering, IIT Madas, Chennai 600 036, Tel: 91-044-2578383, 2578362, Fax: 91-044-2570545, 2578383, Email: dasgupta@iwpsd.net / iwpsd@ee.iitm.ernet.in</p>
<p>December 17-19, 2003, International Conference on Nano Science and Technology, ICONSAT 2003, The Convener, ICONSAT, Surface Physics Division, Saha Institute of Nuclear Physics, 1/AF, Salt Lake, Kolkata 700 064, Fax: 033-23374637, Website: http://surf.saha.ernet.in/icosat</p>
<p>December 17-19, 2003, The Second Asian Particle Technology Symposium (APT 2003), The Secretariat APT-2003, Department of Chemical & Process Engineering, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor, Malaysia, Email: apt@vlsi.eng.ukm.my, Web: http://www.eng.ukm.my/apt</p>
<p>December 22-23, 2003, INAE Conference on Nanotechnology (ICON-2003), Dr. M.J. Zarabi, Chairman, Organizing Committee,, ICON-2003, Central Scientific Instruments Organization (CSIO), Chandigarh</p>
<p>January 12-16, 2004, Mechanical Behaviour of Systems at Small Length Scales, Prof. V Jayaram, Department of Metallurgy, Indian Institute of Science, Bangalore 560 012, Tel: 91-080-2932263, Email: qjayaram@metalrg.iisc.ernet.in, Website: http://metalrg.iisc.ernet.in/~workshop/</p>
<p>January 16-17, 2004, International Seminar on Advances in Polymer Technology, Convener APT '04, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi - 22, Kerala, Tel. : 91-484-2575723, Fax : 91-484-2577747</p>
<p>May 30-June 4, 2004, 3rd International Conference on Computational Modeling and Simulation of Materials and Special Symposium on Modeling and Simulating Materials Nanoworld, Climtec, P O Box 174-48018 Faenza-Italy, Tel: +0546 22461, Fax: +0546 664138, Webiste: www.technagroup.it/modeling.htm</p>
<p>June 14-18, 2004, International Conference on Mechanochemical Synthesis and Sintering, Prof. N Lyakhov, Institute of Solid State Chemistry & Mechanochemistry, Kutateladze 18, Novosibirsk 630 128, Russia, Tel: 7(383-2) 32 86 83, Fax: 7(383-2) 32 28 47, Email: conf@solid.nsc.ru, Website: http://www.solid.nsc.ru/MSS2004</p>

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. 25,000/- 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:

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