



# MRSI Newsletter

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

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## From the Editors' Desk

The 27<sup>th</sup> AGM of the MRSI (MRSI-AGM 2016) will be held at the CSIR-North East Institute of Science & Technology, Jorhat during February 18-20, 2016. The detailed programme of the AGM is given in this issue. Besides, MRSI AGM-2016 have included a theme symposium on "*Advanced Materials for Sustainable Applications*" to take stock of the latest developments in this field worldwide and within the country and to formulate guidelines for further research and development in the country.

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

**K K Nanda**  
**Editor**

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

**[www.mrsi.org.in](http://www.mrsi.org.in)**

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## MRSI NEWSLETTER

**Volume B 15, Number 4 October 2015 and**

**Volume B 16, Number 1 January 2016**

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.

<b>Amlan J Pal</b>	Fellow, Indian National Science Academy
<b>R Jayakrishnan</b>	Kerala State Young Scientist Award (2015)
<b>K. Jayasankar</b>	IEI Young Engineers Award

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

### **MRSI-AGM 2016**

**CSIR-North East Institute of Science & Technology, Jorhat  
February 18-20, 2016**

**Theme Symposium:  
ADVANCED MATERIALS FOR SUSTAINABLE APPLICATIONS**

The 27<sup>th</sup> AGM of the MRSI (MRSI-AGM 2016) will be held at the CSIR-North East Institute of Science & Technology, Jorhat during February 18-20, 2016.

The AGM would include Medal Lectures, MRSI honor Lectures and MRSI-ICSC Awards Lectures along with contributed poster papers covering the latest works of materials science community of the country. MRSI AGM-2016 would also include a theme symposium on “*Advanced Materials for Sustainable Applications*”. The MRSI-AGM will take stock of the latest developments in the field of materials worldwide and within the country as well and to formulate guidelines for further research and development in the country.

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## **MRSI AWARDS FOR 2016**

The MRSI Awards and Prizes for the year 2014 have been announced. The awardees will deliver lectures at the 25<sup>th</sup> AGM of MRSI to be held at Indian Institute of Science, Bangalore 560 012 during February 12-14, 2014.

### **MRSI Silver Jubilee International Award**

Prof. C Jagadish, Australian National University, Australia

### **Distinguished Materials Scientist of the year award**

Dr. G Sundararajan, ARCI, Hyderabad

### **CNR Rao Prize Lecture in Advanced Materials**

Prof. Umesh V Waghmare, JNCASR, Bangalore

### **MRSI-ICSC Superconductivity & Materials Science Annual Prizes**

Dr. S.M. Yusuf, BARC, Mumbai  
Prof. Tanushri Saha Dasgupta, SNBNCBS, Kolkata

Dr. Vijayamohan K Pillai, CECRI, Karaikudi

### **MRSI Medal Lectures**

Dr. Sebastian C Peter, JNCASR, Bangalore

Dr. S Vasudevan, CERI, Karaikudi

Dr. Debashish Sarkar, NIT, Rourkela

Dr. R Ranjith, IIT, Hyderabad

Dr. Mahesh Kumar, IIT, Jodhpur

Dr. Anirban Bhattacharyya, University of Calcutta, Kolkata

Dr. Tarun Kumar Sharma, RRCAT, Indore

Dr. Basanta Roul, BEL, Bangalore

Dr. Bhoje Gowd, NIIST, Trivandrum

Prof. Subhananda Chakrabarti, IIT, Mumbai

Dr. Mrinal Pal, CGCRI, Kolkata

Dr. Pallab Banerji, IIT, Kharagpur

Dr. Rajesh K Sharma, SSPL, Delhi

Prof. Indra Dasgupta, IACS, Kolkata

Prof. Kalyan Mandal, S N Bose Centre, Kolkata

Dr. Ranjan Mittal, BARC, Mumbai

Dr. B K Panigrahi, IGCAR, Kalpakkam

Prof. Mushahid Husain, VC, Rohilkhand University, Barielly

# 27<sup>th</sup> ANNUAL GENERAL MEETING OF MRSI AND THEME SYMPOSIUM ON

## ADVANCED MATERIALS FOR SUSTAINABLE APPLICATIONS

FEBRUARY 18-20, 2016

**CSIR-North East Institute of Science & Technology, Jorhat**

### TENTATIVE PROGRAMME

<b>FEBRUARY 18, 2016</b>	9.45-10.15 AM ML 2	<b>Medal Lecture</b> Dr S Vasudevan, CECRI Karaikudi <i>Electrochemical Alternatives: Emerging Applications for Better Sustainability</i>
10.00-12.00 hrs <b>APAM India chapter Meeting</b>	10.15-10.45 AM ML 3	<b>Medal Lecture</b> Dr Mushahid Husain, MJP Rohilkhand University, Bareilly <i>Single wall carbon nanotube and its device applications</i>
1.00-2.00 PM <b>Lunch</b>	10.45-11.15 AM ML 4	<b>Medal Lecture</b> Dr. Tarun K Sharma, RRCAT, Indore Role of semiconductor epitaxial layers in photonic applications
2.00-4.00 PM <b>Registration</b>	11.15-11.30 AM	Tea
4.00-5.15 PM <b>Inaugural Ceremony</b>	<b>FEBRUARY 19, 2016</b>	<b>Technical Session III</b>
5.15-5.30 hrs Tea	11.30 AM-12.15 PM	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prize</b> Dr Vijayamohan K Pillai CSIR-CECRI, Karaikudi <i>Applications of heteroatom doped Graphene and its analogues for Electro-chemical Energy Storage</i>
<b>Technical Session 1- Award Lectures</b>	12.15-12.45 PM ML 5	<b>Medal Lecture</b> Dr Pallab Banerji, IIT Kharagpur <i>Silver catalysed growth of III-V nanowire on Si (100) by metal organic chemical vapour deposition</i>
5.30-6.15 PM <b>Distinguished Material Scientist of the Year Award</b> Dr G Sundarajan, ARCI, Hyderabad <i>Development of Oxide Dispersion Strengthened Steels at ARCI</i>	12.45-01.15 PM ML 6	<b>Medal Lecture</b> Dr Anirban Bhattacharyya University of Calcutta, Kolkata <i>AlGaN Alloys by plasma assisted molecular beam epitaxy: A new growth model</i>
6.15-7.00 PM <b>CNR Rao Prize Lecture in Advanced Materials</b> Prof UV Waghmare, JNCASR, Bangalore <i>Theoretical Predictions of Novel Structures, Phenomena and Functionality in 2-D Materials</i>	1.30-2.30 PM	Lunch
7.00-7.45 PM <b>MRSI-ICSC Superconductivity and Materials Science Annual Prize</b> Dr S M Yusuf, BARC, Mumbai <i>Investigation of Advanced Magnetic Materials Using Neutron Scattering</i>	1.30-3.30 PM	<b>Poster Session –I</b>
7.45-8.15 PM <b>Medal Lecture</b> ML 1 Dr Sebastian C Peter JNCASR, Bangalore <i>Ordered Pd based Nanoparticles as low cost, highly efficiently and Robust catalysts alternative to Pt in Fuel Cell application</i>	3.15-3.30 PM	Tea
8.15-9.30 PM Dinner	<b>19th February 2016, Technical Session IV Theme Lectures</b>	
<b>19th February 2016, Technical Session II</b>	3.30-4.00 PM	Awaited
7.30-8.30 AM Breakfast	4.00-4.30 PM	Dr Dipak K Dutta, NEIST, Jorhat <i>Metal nanoparticles and immobilized metal complexes for efficient catalytic applications</i>
8.30-9.00 AM Registration (continued)		
9.00-9.45 AM <b>MRSI Silver Jubilee International Medal</b> Prof C Jagadish, Australian National University, Australia <i>Semiconductor Nanowires for Optoelectronics and Energy Applications</i>		

4.30-4.45 PM	Dr Manish R Das, NEIST, Jorhat <i>Reduced graphene oxide sheets decorated with metal and metal oxide nanoparticles-synthesis and applications</i>	11.45-12.15 PM ML 9	<b>MRSI Medal Lecture</b> Prof Subhananda Chakrabarti, IIT Mumbai <i>Realization of indigenous 320x256 focal plane array thermal imagers based on In(Ga)As/GaAs quantum dot infrared photodetectors</i>
4.45-5.00 PM	Dr Pankaj Bharali, Tezpur University <i>Facile transformation of Ca<sub>2</sub>ClOH<sub>3</sub> precursor to active catalysts for reaction of environmental importance</i>	12.15-12.45 PM ML 10	<b>MRSI Medal Lecture</b> Dr Mahesh Kumar, IIT Jodhpur <i>Self-aligned ZnO nanorods for energy efficient hydrogen nanosensor</i>
5.00-5.15 PM	Dr Lakhi Saikia, NEIST, Jorhat <i>Nanostructured material as heterogeneous and photo catalyst</i>	12.45-1.15 PM ML 11	<b>MRSI Medal Lecture</b> Prof Kalyan Mandal, S N Bose Centre, Kolkata <i>Transition Metal oxide nanostructures and their novel properties</i>
5.15-5.30 PM	Awaited		
5.30-5.45 PM	Dr. Kusum K Bania, Tezpur University <i>Zeolite-Y encapsulated transition metal complexes and their application in heterogeneous catalysis</i>	1.15-1.45 PM ML 12	<b>MRSI Medal Lecture</b> Dr B K Panigrahi, IGCAR, Kalpakkam <i>Development of radiation resistance materials and non-equilibrium synthesis of nano-structured materials using low energy ion beams</i>
5.45-6.00 PM	High tea		
6.00-8.00 PM	Cultural Programme		
8.00-9.30 PM	Dinner		
<b>20<sup>th</sup> February 2016</b>			
7.30-9.00 AM	Breakfast	1.45-2.30 PM	Lunch
<b>20<sup>th</sup> February 2016 Technical Session V</b>		1.45-3.30 PM	<b>Poster Session - II</b>
7.30-9.00 AM	Breakfast	3.15-3.30 PM	Tea
09.00-9.45 AM	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prize</b> Prof Tanushri Saha Dasgupta SNBNCBS, Kolkata <i>Computational Modelling of Complex Oxides</i>	<b>20<sup>th</sup> February 2016, Technical Session VII G C Jain Memorial Lectures</b>	
9.45-10.15 AM ML 7	<b>MRSI Medal Lecture</b> Prof Indra Dasgupta, IACS, Kolkata <i>First Principles simulation of Materials: The glue that binds materials, models and mechanism</i>	3.15-3.30 PM	N Adarsh, NIIST Trivandrum <i>Novel Aza-BODIPY dyes and study of their photophysical, photo-dynamic and molecular recognition properties</i>
10.15-10.45 AM ML 8	<b>MRSI Medal Lecture</b> Dr. Beena Rai, TRDDC, Pune <i>Molecular modelling of the self-assembly of surfactants at interfaces and its application in the design and development of reagents for mineral processing applications</i>	3.30-3.45 PM	Arindam Saha, CGCRI Kolkata <i>Multifunctional composite nanomaterial for biomedical application</i>
10.45-11.00 AM	Tea	3.45-4.00 PM	Arnab Hazra, BITS Pilani <i>Studies on P and n-type TiO<sub>2</sub> nanostructure based devices for alcohol sensing</i>
<b>Technical Session VI</b>		4.00-4.15 PM	D Durgalakshmi, University of Madras <i>Investigation on various forms of nanobioglass 45S5 for orthopaedic and dentin regeneration</i>
11.00-11.45 AM	<b>MRSI-ICSC Superconductivity and Materials Science Annual Prize</b> Prof Samit K Ray, IIT Kharagpur <i>One dimensional nanostructures for photonic devices</i>	4.15-4.30 PM	V Mahendran, IGCAR Kalpakkam <i>Direct measurement of colloidal interaction in the presence of analytes</i>
		4.30-5.00 PM	Tea
		<b>Technical Session VIII</b>	
		5.00-5.30 PM ML 13	<b>MRSI Medal Lecture</b> Dr Mrinal Pal, CGCRI Kolkata <i>Metal oxide based novel nanostructure semiconductor as breath sensors for Non-invasive monitoring of diabetes</i>

5.30-6.00 PM ML 14	<b>MRSI Medal Lecture</b> Dr Debasish Sarkar, NIT Rourkela <i>A Novel manufacturing approach to fabricate Near-Net Shape femoral head of ZrO<sub>2</sub>-toughened Al<sub>2</sub>O<sub>3</sub></i>	<b>21<sup>st</sup> February 2016, Technical Session IX (cont'd)</b>
6.00-6.30 PM ML 15	<b>MRSI Medal Lecture</b> Dr Ranjith Ramadurai , IIT, Hyderabad <i>Piezoresponse force microscopy studies on ceramic, organic and hybrid materials as an alternate for lead based piezoelectrics</i>	7.30-9.00 AM Breakfast 9.00-9.30 AM <b>MRSI Medal Lecture</b> ML 17 Dr. Basant Roul, BEL, Bangalore <i>InGaN/GaN heterostructure for light emitting diode application</i>
6.30-7.00 PM ML 16	<b>MRSI Medal Lecture</b> Dr E Bhoje Gowd, NIIST Trivandrum <i>Polymer based nanostructures and nanocomposites</i>	9.30-10.00 AM <b>MRSI Medal Lecture</b> ML 18 Dr Ranjan Mittal, BARC, Mumbai <i>Lattice dynamics and anomalous thermal expansion behaviour in polyhedral network compounds</i>
7.00-8.00 PM	Presentation of Medals and <b>Annual General Body Meeting</b>	10.00-10.30 AM <b>MRSI Medal Lecture</b> ML 19 Dr Rajesh K Sharma SSPL, Delhi <i>Indigenous Materials Technologies for HgCdTe based Infrared Focal Plane Array Development</i>
8.00-9.30 PM	Cultural programme and Dinner	10.30-10.45 AM Tea 10.45-11.30 AM Valedictory Function 11.30-1.30 PM Lunch

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## NOTICE

### ANNUAL GENERAL BODY MEETING OF MRSI

The **Twenty Seventh Annual General Body Meeting** of MRSI will be held on **20<sup>th</sup> February** between 2.15-3.15 PM at Dr M S Iyengar Hall, North East Institute of Science & Technology, Jorhat

The Agenda for the Meeting is as follows:

- Welcome by the President, MRSI
- Confirmation of the Minutes of the 29<sup>th</sup> Council Meeting and action thereon
- Presentation of the Annual Report for 2015
- Report on International links of Materials Research Society of India
- MRSI-Publications-Report by the Editor
- Award for the Best Paper published in Bulletin of Materials Science
- Presentation of the Statement of Accounts for 2015
- Election of Honorary Members
- Venue for the 28<sup>th</sup> AGM, 31<sup>st</sup> Council Meeting (2017) & 29<sup>th</sup> AGM, 32<sup>nd</sup> Council Meeting (2018)
- Items from the members
  - Proposal to open a chapter of MRSI at Hisar, Haryana
  - Proposal to open a chapter of MRSI at Vishakapatnam
- Any other matter

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

# New Members

## Enrolled between July 1, 2015 and December 31, 2015

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## CALENDAR OF EVENTS

<p><b>February 18-20, 2016</b>, 27<sup>th</sup> Annual General Meeting of MRSI, Jorhat, Assam, Dr. Pinaki Sengupta, Chief Scientist &amp; Area Coordinator, Materials Science Area, Convener cum Organizing Secretary, CSIR-North East Institute of Science &amp; Technology, Jorhat – 785 006, Assam (India), Email: <a href="mailto:mrsijorhat@gmail.com">mrsijorhat@gmail.com</a>, Fax: 0376-2370011/2370115, Phone: 2370081/2372267 (O), 2370112 (R); 9435350106 (M)</p>
<p><b>May 25-29, 2016</b>, International Conference on Nanotechnology for Better Living, NBL 2016, Chairmen: Prof. Kamal K Kar, Dept. of Mechanical Engineering, Indian Institute of Technology, Kanpur 208016, Tel: 0512-2597687, Fax: 0512-597459, Email: <a href="mailto:kamalkk@iitk.ac.in">kamalkk@iitk.ac.in</a>, Prof. M Ashraf Shah, Dept. of Physics, National Institute Technology of Srinagar- 190006, JK, Tel: 0194-2420032, Fax: 0194-2420475, Email: <a href="mailto:shah@nitsri.net">shah@nitsri.net</a></p>
<p><b>December 11-15, 2016</b>, International Conference of Young Researchers on Advanced Materials (ICYRAM-2016), IISc, Bangalore, Prof. P S Anil Kumar, Convenor, Department of Physics, Indian Institute of Science, Bangalore 560 012, Telephone : 080-22932882, Fax: 080-23602028, Website: <a href="http://www.iumrs-icyram2016.org.in">www.iumrs-icyram2016.org.in</a></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”.**

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