



# MRSI Newsletter

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for circulation amongst its members*

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**January 2017**

## From the Editors' Desk

Two-dimensional (2D) materials are considered as building blocks for next generation devices for electronic, optical, and sensing applications. Since the discovery of graphene, researchers have developed various 2D materials and a variety of materials have already been realized. Very recently, 2D GaN has been stabilized via graphene encapsulation. The work "Two-dimensional gallium nitride realized via graphene encapsulation" has appeared in Nature Materials 15, 166-1171 (2016). It may be noted that the wurtzite is the most stable phase of GaN and the band gap is 3.2 eV, while the band gap of 2D GaN can be varied with number of layers. Interestingly, planar structure exhibits an indirect band gap of 4.12 eV and a direct band gap of 5.28 eV for buckled structure. It is anticipated many more 2D materials in near future.

**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 16, Number 4-October 2016**

**and Volume B 17, Number 1 -January 2017**

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.

**C N R Rao**

APAM Founder 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 AWARDS -2017

The MRSI Awards and Prizes for the year 2017 have been announced. The awardees will deliver lectures at the 28<sup>th</sup> AGM of MRSI to be held at Indian Institute of Technology, Mumbai 560 012 during February 13-15, 2017

<b>International Medal for Materials Science and Technology</b>	Prof. Anthony K Cheetham, Cambridge. University, UK
<b>Distinguished Materials Scientist of the year award</b>	Prof. A.K. Sood, IISc, Bangalore
<b>CNR Rao Prize Lecture in Advanced Materials</b>	Prof. Ramgopal Rao, IIT, Mumbai
<b>MRSI-ICSC Superconductivity &amp; Materials Science Senior Award</b>	Prof. Chandrabhas Narayana, JNCASR, Bangalore
<b><u>MRSI Distinguished Lecturership Award</u></b>	Prof. Indranil Manna, IIT, Kanpur Prof. S M Shivaprasad, JNCASR, Bangalore
<b>MRSI-ICSC Superconductivity &amp; Materials Science Annual Prizes</b>	Prof. S. Swaminathan, Sastra University, Thanjavur Prof. B R Mehta, IIT, Delhi Dr. P Sujatha Devi, CGCRI, Kolkata
<b>MRSI Medal Lecturers</b>	
Dr. Kanishka Biswas, JNCASR, Bangalore	Dr. T Govindaraju, JNCASR, Bangalore
Dr. Kana M Sureshan, IISER, Trivandrum	Dr. R S Jayasree, SCTIMST, Trivandrum
Dr. Saibal Basu, BARC, Mumbai	Dr. R Jayakumar, Anrita University and Research Centre, Kochi
Dr Partha Bhattacharyy , IEST, Shibpur	Prof. Prasanta K. Das, IACS, Kolkata
Prof. Susanta Banerjee, IIT, Kharagpur	Dr. Biswarup Satpati, SINP, Kolkata
Dr. Neeraj Sinha, Office of the Principal Scientific Secretary, GoI, New Delhi	Dr. P V Satyam, IoP, Bhubaneswar
Dr. Rajendra Singh, IIT, New Delhi	Dr. Anjan Barman, S N Bose Centre, Kolkata

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

Advanced Materials for Healthcare, Clean Energy and Sustainability

FEBRUARY 13-15, 2017

Venue : Victor Menezes Convention Centre, Indian Institute of Technology, Mumbai

## TENTATIVE PROGRAMME

13 <sup>th</sup> February 2017 Venue : Victor Menezes Convention Centre, IIT, Mumbai	
08.15-08.50 hrs	<b>Registration</b>
08.50-09.30 hrs	<b>Inauguration</b>
09.30-10.30 hrs	<b>International Medal for Materials Science and Technology</b> Prof. Anthony K Cheetham, Cambridge. University, UK <i>Hybrid Organic-Inorganic Perovskites</i>
10.30-10.55 hrs	Tea + (Inauguration of Sponsors' Exhibition)
10.55-11.40 hrs	<b>Distinguished Materials Scientist of the year award</b> Prof. A.K. Sood, IISc, Bangalore <i>Journey into the Fascinating World of Nanocarbons</i>
11.40-12.25 hrs	<b>CNR Rao Prize Lecture in Advanced Materials</b> Prof. Ramgopal Rao, IIT, Mumbai <i>Bottom-Up Approaches for Nano-scale CMOS and MEMS Applications</i>
12.25-13.10 hrs	<b>MRSI-ICSC Superconductivity &amp; Materials Science Senior Award</b> Prof. Chandrabhas Narayana, JNCASR, Bangalore <i>Raman in many shades</i>
13.10-14.00 hrs	<b>Lunch</b>
14.00-14.30 hrs	<b>Invited Lecture: Materials for healthcare</b> Prof. Murali Sastry, IIT, Mumbai <i>Title awaited</i>
14.30-15.00 hrs	<b>Medal Lecture 1</b> Dr. Kanishka Biswas, JNCASR, Bangalore <i>High Performance Thermoelectrics based on SnTe</i>
15.00-15.30 hrs	<b>Medal Lecture 2</b> Dr. T Govindaraju, JNCASR, Bangalore <i>Silk and peptidomimetics based smart biomaterials</i>
15.30-15.45 hrs	Tea
15.45-16.15 hrs	<b>Medal Lecture 3</b> Dr. Kana M Sureshan, IISER, Trivandrum <i>Topochemical reactions in crystals and organogels</i>

16.15-16.45 hrs	<b>Medal Lecture 4</b> Dr. R S Jayasree, SCTIMST, Trivandrum <i>Role of nanostructures in Biomedical imaging and therapeutic Applications</i>
16.45-17.15	<b>Medal Lecture 5</b> Dr. Anjan Barman, S N Bose Centre, Kolkata <i>Ultrafast Magnetization Dynamics in Artificially Structured Ferromagnetic Nanomaterials for Applications in Spintronics and Magnonic</i>
17.15-18.15 hrs	<b>Poster Session I:- (AFM, ASM, EPM)</b>
18.30-19.30 hrs	<b>Culture Program (Venue: PC Saxena Auditorium)</b>
20.00 hrs	<b>Dinner</b>

<b>14<sup>th</sup> February 2017</b> <b>Venue : Victor Menezes Convention Centre, IIT, Mumbai</b>	
08.30-10.45 hrs	<b>MRSI-ICSC Superconductivity &amp; Materials Science Annual Prizes</b>
08.30-09.15 hrs (1)	Prof. S. Swaminathan, Sastra University, Thanjavur <i>Nanomaterials for biomedical applications</i>
09.15-10.00 hrs (2)	Prof. B R Mehta, IIT, Delhi <i>Continuous and large scale gas phase synthesis of size selected metal, alloy and coreshell nanoparticles</i>
10.00-10.45 hrs (3)	Dr. P Sujatha Devi, CGCRI, Kolkata <i>Functional Nanomaterials for Energy and Environmental Applications</i>
10.45-11.00 hrs	Tea
11.00-11.30 hrs	<b>Medal Lecture 6</b> Dr. Saibal Basu, BARC, Mumbai <i>Reflectometry: Novel Thin Film Materials and Their Characterization</i>
11.30-12.00 hrs	<b>Medal Lecture 7</b> Dr. R Jayakumar, Amrita Institute of Medical Sciences, Kochi <i>Developing Cost Effective Hydrogel Based Biomedical Products for Tissue Engineering &amp; Regenerative Medicine</i>
12.00-12.30 hrs	<b>Medal Lecture 8</b> Dr. Partha Bhattacharyya , IEST, Shibpur
12.30-13.00 hrs	<b>Medal Lecture 9</b> Dr. P V Satyam, IoP, Bhubaneswar <i>Metal and Bi-Metal Self-Assembled Nanostructures and their Applications</i>
13.00-14.00 hrs	<b>Lunch</b>
14.00-15.30 hrs	<b>MRSI Distinguished Lecturership</b>

14.00-14.45 hrs	Prof. I Manna, IIT, Kanpur <i>Novelty of Nanometric-metallic/ceramic Dispersed Water and Ethylene Glycol Based Nanofluids and Ferrofluids</i>
14.45-15.30 hrs	Prof. S M Shivaprasad, JNCASR, Bangalore <i>Low dimensional multi-functionality of GaNnanowall network</i>
15.30-15.45	Tea
15.30-16.30 hrs	<b>MRSI Council Meeting</b>
15.45-16.15 hrs	<b>Medal Lecture 10</b> Dr. Rajendra Singh, IIT, New Delhi <i>Investigation of current transport processes in graphene/GaN and nanoscale GaN Schottky barrier diodes</i>
16.15-17.15 hrs	<b>Poster Session II ;-( EGM, MC, MMS, MBS)</b>
17.15-18.15 hrs	<b>Awards Distribution and Annual General Body Meeting</b>
18.15 hrs	<b>Banquet Dinner</b>

<b>15<sup>th</sup> February 2017</b>	
<b>Venue : Victor Menezes Convention Centre, IIT, Mumbai</b>	
08.30-09.00 hrs	<b>Medal Lecture 11</b> Prof. Prasanta K. Das, IACS, Kolkata <i>Self-Assembled Soft-Nanocomposites: Molecular Recognition to Cellular Transporter</i>
09.00 -09.30 hrs	<b>Medal Lecture 12</b> Dr. Biswarup Satpati, SINP, Kolkata <i>Heteroepitaxy in chemically grown silver nanodendrites on germanium and mapping its surface plasmon associated photon emission</i>
09.30-10.00 hrs	<b>Medal Lecture 13</b> Dr. Neeraj Sinha, Office of the Principal Scientific Secretary, GoI, New Delhi <i>III-Nitride Semiconductor Heterostructures for Functional Devices</i>
10.00-10.30 hrs	<b>Medal Lecture 14</b> Prof. Subhananda Chakrabarti, IIT, Mumbai <i>III-V compound semiconductor quantum dot based infrared photodetectors and arrays</i>
10.30-10.45 hrs	Tea
10.45-11.15 hrs	<b>Industry Lectures</b>
10.45-11.15 hrs	Virendra Kumar Gupta, Reliance Technology Centre, Mumbai <i>Emerging Developments in 3D Printing Materials based on Polyolefin</i>

11.15-11.45 hrs	<b>Medal Lecture 15</b> Prof. Susanta Banerjee, IIT, Kharagpur <i>Novel cardo polymers and membranes thereof for efficient gas separation</i>
11.45-12.00 hrs	<b>Tea</b>
12.00-13.15 hrs	<b>G C Jain Lectures</b>
1.	Mayanak Kumar Gupta, SSPI, Delhi <i>Thermodynamical Properties of Functional Materials: Neutron Scattering and Lattice Dynamics Studies</i>
2.	Lakshmi V Nair, Japan <i>Nanotechnology: a novel fluorescent nano construct for early diagnosis therapy and sensing</i>
3.	Ajit Kumar Katiyar, IIT, Kharagpur
4.	Aman Bhardwaj, NPL, New Delhi <i>Synthesis and Characterization of Earth-Abundant Zintl phase based Thermoelectric Materials for Power Generation</i>
5.	Achutarao Pathigoolla, Univ. of Nottingham, UK <i>Syntheses of Triazole Linked Cyclodextrin Mimics and Linear Oligosaccharides</i>
13.15-14.00 hrs	Lunch
14.00-16.00 hrs	<b>Invited Lectures</b>
14.00-14.30 hrs	<b>Sustainability</b> Vivek Polshettiwar, TIFR, Mumbai <i>Sustainable Synthesis of Hybrid Nanomaterials for Clean Energy and Environment</i>
14.30-15.00 hrs	<b>Sustainability</b> N N Vishwanathan, IIT Bombay <i>Solid Wastes from Urban Areas, Metal Industries and Electronic Scrap</i>
15.00-15.30 hrs	<b>Materials for healthcare</b> Rohit Shrivastava, IIT Bombay <i>Affordable Healthcare in India</i>
15.30-16.00 hrs	<b>Energy</b> Amartya Mukhopadhyay, IIT Bombay <i>Influences of dimensional aspect, phase transformation and stress development on the electrochemical behavior of electrode materials for Li-ion batteries</i>
16.00-16.15 hrs	<b>Tea</b>
16.15-17.00 hrs	<b>Students Project Talks</b>
1.	Kartik Shreyas, NIT Suratkal <i>Synthesis of nano-tungsten carbide (wc) powder</i>

2.	V S Makendar, Savitha Engineering College, Chennai <i>Awaited</i>
3.	Akansha Mehta, Thapar University, Patiala <i>Size Selective Synthesis of Au@CQDs for Their Outstanding Photocatalytic Hydrogen Evolution under Sun Light</i>
17.00-17.30 hrs	<b>Concluding Function</b>

**Prof. V.S. Raja**  
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## NOTICE

### ANNUAL GENERAL BODY MEETING OF MRSI

The **Twenty Eight Annual General Body Meeting** of MRSI will be held on **14<sup>th</sup> February 2017** at **5.15 PM** at the Indian Institute of Technology (IIT), Mumbai.

The Agenda for the Meeting is as follows:

- Welcome by the President, MRSI
- Confirmation of the Minutes of the 30<sup>th</sup> Council Meeting and action thereon
- Presentation of the Annual Report for 2016
- 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 2016
- Election of Honorary Members
- Venue for the 29<sup>th</sup> AGM, 32<sup>nd</sup> Council Meeting (2018) & 30<sup>th</sup> AGM, 33<sup>rd</sup> Council Meeting (2019)
- Items from the members
- Any other matter

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

## New Members

**Enrolled between August 1 and December 31, 2016**

### Life Members

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## Calendar of Events

**February 20-21, 2017**, National Symposium on Materials for Advanced Technologies, Dr. Parveen Kumar Convener, MAT-2017 DIT University, Dehraun-248009 Email:- mat.ditu2017@gmail.com Phone:- 918650002221 Rishikesh,

**August 27- September 01, 2017**, The 15<sup>th</sup> International Conference on Advanced Materials (IUMRS-ICAM 2017), Kyoto University, Japan, website : [www.iumrs-icam2017.org](http://www.iumrs-icam2017.org)

**June 18-23, 2017**, The 9<sup>th</sup> International Conference on Materials for Advanced Technologies (IUMRS-ICMAT), Suntec Singapore Convention & Exhibition Centre, Singapore, website : <http://icmat2017.mrs.org.sg/>

**October 2017**, VI World Materials Summit on Materials Innovation for the global circular economy and sustainable society, Luxembourg, Europe

**August 20-24, 2018**, The International Conference on Electronic Materials (IUMRS-ICEM 2018), Daejeon Convention Center, Daejeon, Korea

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