

**Office of the PRO-Media Coordinator**  
Jamia Millia Islamia

March 5, 2019

Press Invite/Release

**JMI to organize International Conference on Advanced Materials in the Memory of  
Queen of Carbon - Prof. Mildred S Dresselhaus**

The Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia (JMI) is organizing an International Conference on **‘Advanced Materials’** on March 6-7, 2019.

The conference aims to bring the scientific community together to honour immense contribution of Prof. Mildred S Dresselhaus, Professor Emerita at Massachusetts Institute of Technology (MIT), in the field of carbon and its allotropes. The conference will be hosting Plenary and Keynote Talks, Invited Lectures, Oral & Poster Presentations to showcase the ground breaking research in the emerging field of Materials Science and Nanotechnology.

With leading researchers coming from round the world to explore cutting edge research in the field of Materials Science and Nanotechnology, this conference also present a great opportunity and motivation to young researchers in carrying out the state-of-the-art research work.

The Inaugural Session of the Conference is scheduled to be held on March 6, 2019 at 09.00 AM in Dr. M.A. Ansari Auditorium, JMI.

Prof. S.S. Islam, Director, Centre for Nanoscience and Nanotechnology, JMI and Convenor of the Conference shall deliver the welcome address.

Prof. Shahid Ashraf, Offg. Vice Chancellor, JMI shall deliver inaugural address of the conference.

**Dr. Harsh Vardhan, Minister of State, Ministry of Science & Technology, Government of India shall grace the occasion and address the guests and audience in the Inaugural Session.**

**Bharat Ratna Professor C.N.R. Rao D.litt. (HC), FRS, FNA, FASc, Hon. FRSC shall be the Plenary Speaker in the International Conference.**

In the two-day conference, academicians, research scholars and experts from the country and abroad shall discuss on deliberate on the topics relevant to the theme of the Conference.

Prof. Andrea C Ferrari, University of Cambridge, UK, Prof. Manish Chhowalla, Rutgers University, USA/University of Cambridge, UK, Prof. Ado Jorio, Federal University of Minas Gerais, Brazil, Prof. S.B. Ogale, IISER Pune, Prof. Vitalii I Konov, General Physics Institute (RAS), Russia, Prof. Vladimir Ya.Shur, Ural Federal University, Russia, Prof. Michael de Volder, University of Cambridge, UK and Prof. V Ramgopal Rao, IIT Delhi shall be the Keynote Speakers in the Conference.

Invited speakers, among others, include Prof. A.K. Ganguli, IIT Delhi, Prof. B.R. Mehta, IIT Delhi, Prof. S.M. Shivaprasad, JNCASR, Bangalore, Prof. Xiaoyong Wei, Xiatong University, China, Prof. V.S. Pavelyev, SSAU, Russia, Prof. Vinay Gupta, DU and Prof. S.A. Hashmi, DU

For more details about the conference, please visit <http://www.icamcmn.com>

All are cordially invited.

**Ahmad Azeem**  
PRO-Media Coordinator





In the Memory of  
'Queen of Carbon' –  
Prof. Mildred. S. Dresselhaus'

# ICAM-2019

## INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS

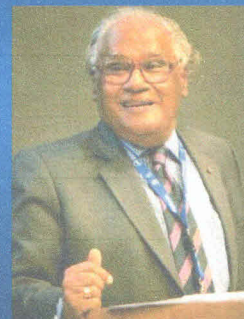
March 6-7, 2019

Organised by

Centre for Nanoscience and Nanotechnology (CNN)

Jamia Millia Islamia (A Central University)

New Delhi, India



**PLENARY SPEAKER**  
Prof. C.N.R. RAO, FRS

Bharat Ratna,  
(Highest Civilian Award, India)  
National Research Professor,  
JNCASR Bangalore, India

### About ICAM-2019

ICAM-2019 invites researchers from all over the world to participate in "International Conference on Advanced Materials", scheduled to be held on March 6-7, 2019 at Jamia Millia Islamia (Central University) New Delhi-India. The conference aims to bring the scientific community together to honour immense contribution of Prof. Mildred S. Dresselhaus, Professor Emerita at Massachusetts Institute of Technology (MIT), in the field of carbon and its allotropes. The conference will be hosting Plenary and Keynote Talks, Invited Lectures, Oral & Poster Presentations to showcase the ground breaking research in the emerging field of Materials Science and Nanotechnology.

The scope of the conference covers following key area (but not limited to):

- Low Dimensional Carbon Allotropes
- Energy Harvesting and Storage Materials
- 2D Materials : Fabrication and Applications
- Photonics and Optoelectronic Materials
- Nanomagnetism, Spintronics and Memory devices
- Nanoelectronics, Nanodevices, Sensors and Actuators
- Nanotechnology for Environment and Catalysis
- Nanomaterial: Synthesis and Characterization
- Nanobiotechnology and Nanomedicines
- Industrial Nanotechnology

With leading researchers coming from round the world to explore cutting edge research in the field of Materials Science and Nanotechnology, this conference also presents a great opportunity and motivation to young researchers in carrying out the state of the art research work.

### KEYNOTE SPEAKERS



Prof. Andrea C. Ferrari  
University of Cambridge,  
UK



Prof. Manish Chhowalla  
Rutgers University, USA/  
University of Cambridge, UK



Prof. Ado Jorio  
Federal University  
of Minas Gerais, Brazil



Prof. S. B. Ogale  
IISER Pune,  
India



Prof. Vitalii I. Konov  
General Physics Institute  
(RAS), Russia



Prof. Vladimir Ya. Shur  
Ural Federal University,  
Russia



Prof. Michael de Volder  
University of Cambridge,  
UK



Prof. V. Ramgopal Rao  
IIT Delhi,  
India

### Convener and Chairman

Prof. S. S. Islam

Director

Centre for Nanoscience and Nanotechnology  
JMI New Delhi

### Advisory Committee

Prof. Ramgopal Rao, Director, IIT Delhi  
Prof. M. Jagadesh Kumar, VC, JNU Delhi  
Prof. Talat Ahmad, VC, KU J&K  
Prof. A. C. Pandey, Director, IUAC Delhi  
Dr. D. K. Aswal, Director, NPL Delhi  
Dr. R. K. Sharma, Director, SSPL Delhi  
Dr. D. K. Bhattacharya, SSPL Delhi  
Dr. H. B. Srivastava, Director, LASTECH Delhi  
Shri. Anil Aggarwal, Director, ER & IPR, DRDO  
Prof. Seyed E. Hasnain, VC, Jamia Humdard, Delhi  
Prof. Vikram Kumar, IIT Delhi  
Prof. Ameer Azam, AMU Aligarh  
Prof. Shakeel Khan, AMU Aligarh  
Prof. D. K. Awasthi, Director AINT, Amity Univ. Noida  
Prof. C. Julien, UPMC, Paris, France  
Prof. N. H. Tai, NTHU Taiwan  
Prof. Davinder Kaur, IIT Roorkee  
Prof. V. K. Jain, Amity University, Noida-UP  
Prof. Ajit Varma, Amity University, Noida-UP  
Prof. Avinashi Kapoor, DU Delhi  
Prof. M. V. Rajam, DU Delhi  
Prof. H. B. Bohider, JNU Delhi  
Prof. B. K. Kuanr, JNU Delhi  
Prof. Jamil Akhtar, CEERI, Pilani Rajasthan  
Dr. A. K. Mukhopadhyay, DST Delhi  
Dr. J. S. Rawat, SSPL Delhi  
Dr. Chandra Prakesh, SSPL Delhi  
Prof. Lekha Nair, JMI Delhi  
Prof. A. K. Shukla, IIT Delhi  
Dr. V.P.S. Awana, NPL Delhi  
Shri. Arvind Kumar, MeitY Delhi  
Prof. A. K. Razdan, LASTECH DRDO  
Dr. R. K. Joshi, DST Delhi  
Dr. Bipin Joshi, DST Delhi  
Prof. Zahid Akhtar Khan, JMI Delhi

### Invited Speakers

Prof. A. K. Ganguli, IIT Delhi, India  
Prof. B. R. Mehta, IIT Delhi, India  
Prof. S. M. Shivaprasad, JNCASR Bangalore, India  
Prof. Xiaoyong Wei, Xiatong University, China  
Prof. V. S. Pavelyev, SSAU, Russia  
Prof. Vinay Gupta, DU, India  
Prof. S. A. Hashmi, DU, India

More are likely to join....

### Steering Committee

Prof. M. Sami, JMI Delhi  
Prof. S. G. Ghosh, JMI Delhi  
Prof. Mushahid Husain, Ex-VC, (M.J.P.R.U.), UP  
Prof. V. D. Vankar, IIT Delhi  
Prof. P. K. Bhatnagar, DU Delhi  
Dr. Dilshad Akhtar, JMI Delhi  
Prof. R. P. Tandon, JMI Delhi  
Prof. Md. Zulfequar, JMI Delhi  
Prof. T. Islam, JMI Delhi  
Prof. Z. H. Khan, JMI Delhi  
Prof. Zahid Ashraf, JMI Delhi  
Dr. Rahisuddin, JMI Delhi  
Shri. Shaikh Saifullah (DFO), JMI Delhi

### Organising Committee

**Treasurer**  
Dr. A. K. Hafiz, CNN, JMI Delhi

**Secretary**  
Dr. Prabhash Mishra, CNN, JMI Delhi  
Dr. Shahab Ahmad, CNN, JMI Delhi

**Co-Convener**  
Dr. Manika Khanuja, CNN, JMI Delhi  
Dr. Samina Husain, CNN, JMI Delhi

**Team Members:**

Dr. Shahid Khan, JMI Delhi  
Dr. Javid Ali, JMI Delhi  
Dr. Vivek Aggarwal, JMI Delhi  
Dr. Nafis Ahmad, JMI Delhi  
Dr. Arpita Rai, JMI Delhi  
Dr. Rajan Patel, JMI Delhi  
Dr. Syed Mansoor Ali, JMI Delhi  
Dr. Rana Tabassum, CNN, JMI Delhi  
Dr. Avshish Kumar, JMI Delhi  
Dr. Prachi Tripathi, KIET, Ghaziabad  
Dr. Poonam Sehrawat, CNN, JMI Delhi  
Mr. Md. Bilal Khan, JMI Delhi  
Research Scholars, CNN, JMI Delhi

### Chief Patron

Prof. Shahid Ashraf  
Vice Chancellor (Offg.)  
JMI New Delhi

### Patron

Shri. A. P. Siddiqui, IPS  
Registrar  
JMI New Delhi

### Registration Process (Without Accommodation)

Category	Fees
Indian Student	3000 INR
Indian Faculty/Scientist	5000 INR
Industry	10000 INR
Foreigner Student/Faculty	150 USD/200 USD
Accompanying Person	2000 INR/100 USD
(Indian/Foreign)	

To register send the scanned copy of filled registration form and DD at [icam2019jmi@gmail.com](mailto:icam2019jmi@gmail.com) and speed post the hard copies to "Director, Centre for Nanoscience and Nanotechnology, JMI, New Delhi-110025". The DD/Cheque should be made in favour of "Registrar, Jamia Millia Islamia", payable at New Delhi-110025.

### Abstract Submission

All registered participants are requested to submit one page abstract before last date of submission. Selective papers will be published in SCI/Scopus indexed journal after stringent peer reviewed.

For more information please visit  
<http://www.icamcnn.com/>

### Accommodation

Accommodation will be provided on paid basis and first come first serve basis. Please send your request for accommodation at [icam2019jmi@gmail.com](mailto:icam2019jmi@gmail.com) with your registration details as soon as possible.

Registration & Abstract submission opens	15 <sup>th</sup> October 2018
Last date for Abstract submission	25 <sup>th</sup> January 2019
Notification of acceptance	31 <sup>st</sup> January 2019
Registration & Fee payment Deadline	10 <sup>th</sup> February 2019
Date of conference	6 <sup>th</sup> & 7 <sup>th</sup> March 2019

Conference Venue: Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi-110025, India.



Day 2 : March 7, 2019 (Thursday)			
	Keynote Talks(Venue: M. A. Ansari Auditorium)		
09:00 AM – 09:45 AM	Keynote Lecture V: Prof. Manish Chhowalla, Rutgers University, USA/University of Cambridge, UK Title : <i>Electrical contacts on automatically thin 2D semiconductors.</i>		
	PARALLEL SESSIONS		
	Invited Talks		
	Session-X	Session-XI	Session-XII
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
09:45 AM – 10:15 AM	Prof. V. S. Pavelyev, SSAU, Russia	Dr. Veerpal Singh Awana, NPL, India	Dr. Vandana, NPL, India
10:15 AM – 10:45 AM	Prof. S. A. Hashmi, DU, India	Dr. Raju Khan, CSIR-Bhopal, India	Dr. Praveen Kumar, IACS, India
10:45 AM – 11:15 AM	Tea + Poster Presentation		
	Poster Presentation – III: Nanoelectronics, Nanodevices, Sensors and Actuators, Photonics and Optoelectronic Materials,		
	PARALLEL SESSIONS		
	Invited Talks		
	Session-XIII	Session-XIV	Session-XV
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
11:15 AM – 11:45 AM	Prof. Vinay Gupta, DU, India	Dr. Yashwant Pathak, University of South Florida, USA	Dr. Budhi Singh, IUAC, India
11:45 AM – 12:15 PM	Prof. Xiaoyong Wei, Xiatong University, China	Dr. Govind, NPL, India	Dr. Navendu Goswami, JPIIT, India
12:15 PM – 12:45 PM	Prof. S. Patnaik, SPS, JNU, India	Prof. S. Balakumar, University of Madras, Chennai, India	Dr. Periyasamy Thilakan, Pondichery University, India
12:45 PM – 01:15 PM	Prof. Bijoy Kumar Kuanr, JNU, India	Prof. P.K Bhatnagar, DU, India	Dr. Sheeja M. K., SCTCE, Kerala, India
01:15 PM – 02:15 PM	Lunch (Venue: Nehru Guest House, Jamia Millia Islamia)		
02:15 PM – 03:00 PM	Keynote Lecture VI: Prof. Andrea C. Ferrari, University of Cambridge, UK		
03:00 PM – 03:45 PM	Keynote Lecture VII: Prof. Satishchandra B. Ogale, IISER Pune, India Title: <i>Advanced Functional Materials for Clean Energy Applications</i>		
03:45 PM – 04:15 PM	Tea + Poster Presentation		
	Poster Presentation – IV: Nanobiotechnology and Nanomedicines, Nanotechnology for Environment and Catalysis, Industrial Nanotechnology		
	Invited Talks		
	PARALLEL SESSIONS		
	Session-XVI	Session-XVII	Session-XVIII
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
04:15 PM – 04:45 PM	Prof. Li Jin, Xiatong University, China	Dr. Qingyuan Hu, Xiatong University, China	Dr. Satya Pal Singh, MMM University of Technology, Gorakhpur
04:45 PM – 05:15 PM	Prof. H.B. Bohidar, JNU, India	Dr. Yongyong Zhuang, Xiatong University, China	Dr. Kalawati Saini, Miranda House, University of Delhi
	Invited talk/Oral Presentation		
	PARALLEL SESSIONS		
	Session-XIX	Session-XX	Session-XXI
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
05:15 PM – 05:25 PM	Dr. Tasneem Fatima, JMI, India (Invited)	OP-23: Dr. Aarti Sharma	OP-30: Dr. Khursheed Ahmad Sah
05:25 PM – 05:35 PM		OP-24: Mrs. Nutan Rani	OP-31: Dr. Wakeel Ahmed Dar
05:35 PM – 05:45 PM		OP-25: Dr. Ashi Ikram	OP-32: Mr. Farrukh Sahgir
05:45 PM – 05:55 PM		OP-26: Dr. Jehova Jire L. Hmar	OP-33: Dr. Neha Kumari
05:55 PM – 06:05 PM	OP-20: Dr. Poonam Sehrawat	OP-27: Dr. Rajeev Ranjan Sinha	OP-34: Sreekanth Maddaka
06:05 PM – 06:15 PM	OP-21: Dr. Suveda Arya	OP-28: Prof. N. Ramalingayya Banapurmath	OP-35: Arshi Salamat
06:15 PM – 06:25 PM	OP-22: Abubakar Hamisu	OP-29: Ms. Sonia	OP-36: S. Mulijani
06:25 PM – 06:35PM			OP-37: Gaurav Sapra
06:35 PM – 06:45PM	Tea (Venue: Nehru Guest House)		
VALEDICTORY CEREMONY			



# International Conference on Advanced Materials

## Centre for Nanoscience And Nanotechnology, Jamia Millia Islamia (Central University), New Delhi



**ICAM – 2019**

**March 6-7, 2019**

### PROGRAMME SCHEDULE



#### Day 1 : March 6, 2019 (Wednesday)

Timings	Venue: Ansari Auditorium		
08:00 AM – 09:00 AM	Registration		
09:00 AM – 09:05 AM	Recitation of Holy Quran		
09:05 AM – 09:10 AM	Welcome Address by Convener: Prof. S. S. Islam		
09:10 AM – 09:20 AM	Inaugural Address by the Vice-Chancellor Prof. Shahid Ashraf		
09:20 AM – 09:30 AM	Address by Dr. Harsh Vardhan, Minister, Ministry of Science & Technology		
09:30 AM – 09:35 AM	Address by Registrar: Mr. A. P. Siddiqui		
09:35 AM – 09:40 AM	Address by Dean, Faculty of Natural Sciences		
09:40 AM – 09:50 AM	Felicitation of Chief Guest and Guest of Honour by the Vice-Chancellor		
09:50 AM – 10:00 AM	Vote of Thanks by Convener		
	<b>Plenary &amp; Keynote Talks (Venue: Ansari Auditorium)</b>		
10:00 AM – 11:00 AM	Plenary Talk by Prof. C.N.R. RAO, JNCASR Bangalore, India <i>Title: Solar photochemical, thermochemical and electrochemical generation of hydrogen by water splitting.</i>		
11:00 AM – 11:30 AM	<b>High Tea (Venue: Nehru Guest House)</b>		
11:30 AM – 12:15 PM	Keynote Lecture I: Prof. Ado Jorio, Federal University of Minas Gerais, Brazil <i>Title: Nano-Raman Spectroscopy of two-dimensional sp<sup>2</sup> carbons</i>		
12:15 PM – 01:00 PM	Keynote Lecture II: Prof. Ramgopal Rao, Director, IIT Delhi, India <i>Title: Bottom-up meets top down: An integrated Approach for future high performance CMOS and sensor technologies</i>		
01:00 PM – 02:00 PM	<b>Lunch (Venue: Nehru Guest House)</b>		
	<b>Keynote Talks (Venue: Ansari Auditorium)</b>		
02:00 PM – 02:45 PM	Keynote Lecture III: Prof. Michael de Volder, University of Cambridge, UK <i>Title: Hierarchical Carbon Nanotube Structures for Sensing and Energy Storage Applications.</i>		
	<b>INVITED TALKS</b>		
	<b>Parallel Sessions</b>		
	<b>Session-I</b>	<b>Session-II</b>	<b>Session III</b>
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
02:45 PM – 03:15 PM	Prof. N.H. Tai, Taiwan	Prof. Yazykova, SSU, Russia	Dr. Srinivas Rao Ragam, NPL, India
03:15 PM – 03:45 PM	Prof. S. M. Shivaprasad, JNCASR Bangalore, India	Prof. Absar Ahmad, AMU, India	Dr. Pooja, CSIR, Chandigarh, India
	<b>Tea + Poster Presentation</b>		
03:45 PM – 04:15 PM	<b>Poster Presentation – I: Nanomaterial: Synthesis and Characterization, Low Dimensional Carbon Allotropes, 2D Materials: Fabrication and Applications</b>		
04:15 PM – 05:00 PM	Keynote Lecture IV: Prof. Vladimir Ya. Shur, Ural Federal University, Russia <i>Title: Domain shapes in ferroelectrics, from polygons to snowflakes.</i>		
	<b>INVITED TALKS</b>		
	<b>Parallel Sessions</b>		
	<b>Session-IV</b>	<b>Session-V</b>	<b>Session VI</b>
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
05:00 PM – 05:30 PM	Dr. Sandeep Pathak, IIT, India	Prof. Subhasis Ghosh, JNU, India	Dr. R.K. Dwivedi
05:30 PM – 06:00 PM	Prof. Ajit Varma, Amity, Noida, India	Prof. Zeenat Iqbal, Jamia Hamdard, India	Dr Pramod Kumar, IIIT Allahabad, India
	<b>Tea + Poster Presentation</b>		
06:00 PM – 06:30 PM	<b>Poster Presentation – II: Energy Harvesting and Storage Materials, Nanomagnetism Spintronics and Memory devices</b>		
	<b>ORAL PRESENTATION</b>		
	<b>PARALLEL SESSIONS</b>		
	<b>Session-VII</b>	<b>Session-VIII</b>	<b>Session-IX</b>
	M.A. Ansari Auditorium	FKT-CIT	Committee Hall Nehru Guest house
06:30 PM – 06:40 PM	OP-01: Jaya Lohani	OP-07: Dr. Kavita Sharma	OP-13: Dr. Vivek Srivastava
06:40 PM – 06:50 PM	OP-02: Dr. Navnita Kumari	OP-08: Dr. Jai Prakash	OP-14: Dr. Kaushlendra Sharma
06:50 PM – 07:00 PM	OP-03: Dr. Mahesh Kumar Sah	OP-09: Dr. Vasudha Sharma	OP-15: Dr. Priyanka Gauba
07:00 PM – 07:10 PM	OP-04: Dr. Indu Chauhan	OP-10: Ms. Richa Tomar	OP-16: Dr. Deenan Santhiya
07:10 PM – 07:20 PM	OP-05: Dr. Shiv Kumar Dixit	OP-11: Dr. Yogendra K. Gautam	OP-17: Dr. Kamla Prati Tiwary
07:20 PM – 07:30 PM	OP-06: Mr. Nantha kumar	OP-12: Mr. Rajiv Vatsa	OP-18: Dr. Himani Khanduri
7:30 PM	<b>Dinner (Venue: Nehru Guest House)</b>		