25th Raman Memorial Conference – 2019

"Physics of 2D Materials: Theory and Experiments"

Scientific Program

Date : 14th February, 2019

08.00 am – 09.00 am **Registration and Breakfast**

09.00 am - 09.30 am **Inauguration (Raman Auditorium)**

09.30 am – 10.30 am	**Key Note**	**Prof. Bodh Raj Mehta** KPFM based nanoscale investigations of 2D-3D interfaces
10.30 am – 11.00 am	**High Tea**	
Session (10 + 2 min)		
11.00 am – 11.12 am	**OP-1**	**Abhishek Pandey** 3D Oxidized Graphene Frameworks for Efficient Filtration of Methylene Blue Dye
11.12 am – 11.24am	**OP-2**	**Mihir Durve** Learning to Flock, Flocking to Learn
11.24 am – 11.36 am	**OP-3**	**Indranil Roy** Origin of pseudo-gapped vortex core: an example of Quantum fluctuation
11.36am – 11.48am	**OP-4**	**Farsa Ram** Organic Flexible Nanogenerators for Mechanical Energy Harvesting
11.48 am – 12.00pm	**OP-5**	**Suyog Raut** Mechanical vibration damping by thermal plasma synthesized iron oxide nanoparticles
12.00 pm – 01.00 pm	**IT-1**	**Dr. Nirmalya Ballav** Chemically Derived Reduced Graphene Oxide for Energy Applications
01.00 pm – 02.00 pm	**Lunch**	
Session (10+2)		
02.00 pm – 03.00 pm	**IT-2**	**Prof. Pratap Raychaudhuri** Observation of hexatic vortex fluid in a thin superconducting film
03.00 pm – 03.12pm	**OP-6**	**Sameer Salunkhe** Multi-frequency Radio Study of the Galaxy Cluster Abell 2744
03.12 pm – 03.24 pm	**OP-7**	**Bhagyashri Shinde** Model for growth, transport and morphology of fungal hyphae
03.24 pm – 03.36 pm	**OP-8**	**Swati Parmar** Structural and Electrical Properties of 2D/2D MoS2-hBN Mosaic Structure and Trieboelectric Nanogenerator Application

03.36 pm – 03.48 pm	**OP-9**	**Sushant Sahu** Visible-to-Ultraviolet Upconversion Sensitized Photocatalysis: Fact or Fiction?
03.48 pm – 04.00 pm	**OP-10**	**Sudip Kumar Kundu** Computation of flood-drought year by using IMD monthly rainfall data over Gangetic plain
04.00 pm – 04.12 pm	**OP-11**	**Sushmita Rath** Design and Development of Quartz Tuning Fork based Sensor Array for Metabolic Rate monitoring
04.12 pm – 04.24 pm	**OP-12**	**Yogesh Shinde** Synthesis of Platinum Decorated RGO-TiO2 (P25) Composites for Enhanced Photocatalytic Hydrogen Evolution and Dye Degradation
04.24 pm-04.36 pm	**OP-13**	**Hemlata Bhandari** Light-cone and front dynamics of single particle extended quantum walk.
04.36pm-05.06pm	**TP**	**Vishal Bharud** Measurement of Cross Sections for formation of Metastable states and Radioisotopes of a few Nuclei through Nuclear Reactions induced by Bremsstrahlung Radiation and Neutrons
05.06pm-07.00pm	**Poster Session + High Tea**	
07.00pm-08.00pm	**Cultural Programme**	
07.00pm-Onwards	**Dinner**	

Date : 15th February, 2019

08.30 am – 09.30 am	**Breakfast**	
Session-1		
09.30 am – 10.30 am	**IT-3**	**Dr. Suwarna Datar** Nanowire Gap- Plasmon's assisted Raman Scattering
10.30 am – 10.42 am	**OP-14**	**Shalaka Kamble** Thermionic emission measurement of refractory materials using indigenously developed thermionic emission measurement set up.
10.42 am – 10.54 am	**OP-15**	**Onkar Ramdasi** Ferroelectric, Dielectric and Piezoelectric Properties of Hf Modified BaTiO3
10.54 am – 11.30 am	**High Tea**	
Oral Session (10 + 2 min)		
11.30 am – 11.42 am	**OP-16**	**Sachin Wadhai** Synthesis of Highly Efficient Metal Free Phosphorus doped Graphitic Carbon Nitride / P25 (TiO_2) Composite for Visible Light Photocatalytic Hydrogen Evolution
11.42 am – 11.54 am	**OP-17**	**Ambadas Phatangare** Development of Nuclear battery using Tritium gas filled tubes and Photovoltaic devices
11.54 am – 01.00 pm	**IT-5**	**Dr. Vasant Sathe** Polarized Raman scattering of 2-D structures
01.00 pm – 02.00 pm	**Lunch**	
Oral Session (10+2)		
02.00 pm – 02.12 pm	**OP-18**	**Swapnil Doke** Sustained multiferroicity in liquid crystal induced by core/shell geometry of quantum dots
02.12 pm – 02.24 pm	**OP-19**	**Kishor Gavhane** Dosimetric properties of BaF_2:X (X= Gd, Yb and Ce) phosphor for γ-ray
02.24 pm – 02.36 pm	**OP-20**	**Supriya More** Proliferation of Human Mesenchymal Stem cells on UHMWPE polymer surface as an effect of plasma processing

02.36 pm – 02.48 pm	**OP-21**	**Prachi Ghoderao** Development of Antibiotic-Magnetic Carbon Nanovectors Complexes for Enhancing Efficacy of the Antibiotic
02.48 pm – 03.00 pm	**OP-22**	**Shrreya Krishnamurthy** Designing white light emitting phosphors using 2D hybrid perovskites
03.00 pm – 03.12 pm	**OP-23**	**Imran Shaikh** Spin coated Ag nanoparticles as a SERS substrate for trace detection of food adulterant melamine in the milk powder
03.12 pm - 03.24 pm	**OP-24**	**Neha Ghodke** Synthesis of Ni nanoparticles by thermal plasma method and their implementation for hydrogen production from alkaline sodium borohydride solution
03.24pm – 3.36 pm	**OP-25**	**Theodore Selwyn** Statistical model analysis of neutron induced reactions on 232Th from reaction threshold to 20 MeV for ADSS application
03.36pm-4.36pm	**IT - 6**	**Prof. Rudolf Holze** Supercapacitors: From the Leyden Jar to Supercap Trams and Busses – Past and Perspectives
04.36 pm – 04.50 pm	**High Tea**	
04.50 pm Onwards	**Valedictory function**	