

**January 04, 2020**

<b>SECTION</b>		<b>PHYSICAL SCIENCES</b>	
<b>Sectional President</b>	:	<b>Dr. Santhosh Chidangil</b> Centre of Excellence for Biophotonics and Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal, Karnataka.	
<b>Sectional Secretary</b>	:	<b>Dr. Naveen S</b> Department of Physics, School of Engineering & Technology, Jain Global Campus, Ramanagar, Karnataka	
<b>Sectional Recorder</b>	:	<b>Dr. Vineet Kumar Rai</b> Department of Applied Physics, Indian Institute of Technology, Dhanbad, UttarPradesh.	
<b>02:00 – 06:00 PM</b>			
<b>Venue</b>	:	<b>Cluster I - Main Program Area : Hall 8</b>	
<b>SECTIONAL COMMITTEE MEETING</b>			
<b>Presidential Address</b>	:	<b>Santhosh Chidangil,</b> Centre of Excellence for Biophotonics and Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal, Karnataka.  <i>Advances in Photonics Technologies for Healthcare</i>	
<b>Platinum Jubilee Lecture</b>	:	<b>Chandrabhas Narayana,</b> Professor, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur P.O., Bangalore. <i>Discovering new topological insulators using Raman spectroscopy</i>	
<b>Foreign Scientist Speakers</b>	:	<b>Shean-Jen Chen,</b> College of Photonics, National Chiao Tung University, Taiwan. <i>Fast Volumetric Bioimaging Based on Temporal Focusing Widefield Multiphoton Microscopy</i>  <b>Murukeshan Vadakke Matham,</b> Centre for Optical & Laser Engineering (COLE), Nanyang Technological University, Singapore. <i>Hybrid-modality diagnostic imaging and specialty fiber probes for optogenetics applications – role of contrast agents</i>	

<b>Young Scientist Award Presentations</b>	<p><b>: Laxmi Kumari</b> Department of Physics, University of Lucknow, Lucknow - 226 007, U.P.</p> <p><b>Ayushi Rastogi</b> Liquid Crystal Research Laboratory , Department of Physics, University of Lucknow,Lucknow – 226 007.</p> <p><b>Ananya Chowdhury</b> Department of Physics, Indian Institute of Technology Kharagpur, Kharagpur – 721 302.</p> <p><b>Mallikarjun K. Patil</b> Laser Spectroscopy, Department of Physics, Karnatak University Dharwad, Pavate Nagar, Dharwad - 580 003.</p>
<b>SECTIONAL COMMITTEE ELECTION</b>	

**January 05, 2020**

<b>02.00-06.00 PM</b>	
<b>Venue</b>	<b>: Cluster I-Main Program Area: Hall 8</b>
<b>Symposium</b>	
<b>Photonics: An emerging Physical Science discipline for energy, environment, and health care in rural setting</b>	
<b>Invited Lectures</b>	<p><b>: Ammasi Periasamy,</b> WM Keck Center for Cellular Imaging, University of Virginia, Departments of Biology and Biomedical Engineering, Charlottesville, VA 22904, USA</p> <p><i>Fluorescence Lifetime Imaging Microscopy in the Biomedical Sciences</i></p>
	<p><b>: Prem B. Bisht</b> Department of Physics, Indian Institute of Technology, Madras, Chennai.</p> <p><i>Self-assembled microbottle resonator for sensing technology</i></p>
	<p><b>: V. J. Fulari</b> Department of Physics, Shivaji University, Kolhapur.</p> <p><i>Chemically synthesized electrodes like CuO and Polypyrrole-Polyaniline Composite thin film as a promising electrode materials for glucose sensor</i></p>
	<p><b>: Reji Philip</b> Ultrafast and Nonlinear Optics (UNO) Lab, Light and Matter Physics (LAMP) Group, Raman Research Institute, Bangalore.</p>

		<i>Optical Limiters: Materials for protecting human eyes and optical sensors from hazardous laser radiation</i>
	:	<b>Aditya K Dharmadhikari</b> Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Colaba, Mumbai.  <i>Intense femtosecond laser pulse induced damage to biomolecules</i>
		<b>V P N Nampoory</b> International School of Photonics, Cochin University of Science and Technology, Cochin Kerala  <i>Photonics Technology for quality evaluation of agricultural products</i>
<b>BEST POSTER AWARD PRESENTATION</b> <b>Concurrent Poster Session –I (P01 – P50)</b>		

**January 06, 2020**

<b>02.00 – 06.00 PM</b>		
<b>Venue</b>	:	<b>Cluster I- Main Program Area : Hall 8</b>
<b>Symposium</b>		
<b>Recent advances in Physical Sciences</b>		
<b>Invited Lectures</b>	:	<b>P. S. Anilkumar</b> Department of Physics, Indian Institute of Science, Bangalore.  <i>Physics and Technology with quantum materials</i>
	:	<b>Goutam K. Samanta</b> Photonic Sciences Laboratory, Physical Research Laboratory, Navrangpura, Ahmedabad.  <i>Classical and quantum implementation of structured optical beams</i>
	:	<b>Sanjeev Inamdar</b> Department of Physics, Karnatak University Dharwad. <i>Quantum dot based FRET sensors</i>
	:	<b>Kailasnath M</b> International School of Photonics, Cochin University of Science & Technology, Kochi.  <i>Polymer micro lasers for sensing applications</i>
	:	<b>Satheesh Kumar</b>

	Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Karnataka
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	<i>Optical Monitoring of Clear Sky Air Turbulence in the wake of Global Warming</i>
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<b>Concurrent Poster Session –II (P51 – P109)</b>
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January 07, 2020

**02:00 – 03.00 PM**

**Venue**

**Cluster I – Main Program Area : Hall 8**

**Oral Presentations**

<b>Oral Presentations</b>	:	<b>N. Shanthi and Aravind Babu</b> Department of Physics, School of Sciences, Jain Deemed-to-be University, Bengaluru, Karnataka  <i>Quantum Entanglement - Recent evidences</i>
	:	<b>Laxmi Kumari, Sachin Gupta and Manisha Gupta</b> Department of Physics, University of Lucknow, Lucknow 226007, India  <i>Molecular Association and Spectroscopic of Poly(vinyl pyrrolidone) (PVP) Polymer with ethanol and 1-butanol at Varying Temperature</i>
	:	<b>S. S. Patil, S. S. Mane, D. V. Pawar, V. J. Fulari</b> Holography and Materials Research Laboratory, Department of Physics, Shivaji University, Kolhapur- 416004 (M.S.) India  <i>Chemically Synthesized nanostructures CuS thin film for energy storage application</i>
	:	<b>Shivaraj R. Maidur, K. N. Krishnakanth, Parutagouda Shankaragouda Patil, S. Venugopal Rao</b> Department of Physics, KLE Institute of Technology, Opposite Airport, Gokul, Hubballi 580030, India.  <i>Third order nonlinear optical studies of 2,4,5-trimethoxy-4-nitrochalcone using femtosecond DFWM technique</i>
	:	<b>Shatadru Chaudhuri, Harijyoti Mandal, Ayesha Bhattacharjee, Dhruba Jyoti Das, Jyotirmoy Goswami</b> Department of Physics, Jadavpur University, Jadavpur, Kolkata-700032  <i>Solitary wave propagation in a cold magnetized plasma with relativistic electrons</i>
	:	<b>Mallikarjun K. Patil and Sanjeev R. Inamdar</b> Laser Spectroscopy Programme, Department of Physics, Karnatak University, Dharwad 580003, India  <i>Size and Distance Dependent Surface Energy Transfer from NHS Ester activated Alexa Fluor 532 dyeto Gold Nanoparticles</i>
	:	<b>Suresh Chandra and Mohit K Sharma</b> Amity Centre for Astronomy & Astrophysics, Amity Institute of Applied Sciences, Amity University, Noida 201313, India.  <i>H<sub>2</sub>SiO IRASERS in a warm region in interstellar medium</i>

	:	<b>Aravind M, Santhosh Chidangil and Sajan D. George</b> Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal-576104, India  <i>Colorimetric detection of Mercury (II) ions based on Ag reduced PDMS sponge</i>
<b>General Discussion and Recommendations</b>		