

SECTION		PHYSICAL SCIENCES
Sectional President		Prof. B.N. Jagatap , BARC, Mumbai
Local Sectional Secretary		Dr. Pratap Kumar Sahoo , NISER, Bhubaneswar
Sectional Recorder		Prof. A.K. Rai , Allahabad University, Allahabad
January 04, 2011		
14:00 – 17.30		
Venue	:	Campus-3, Hall D5, KIIT University
Presidential Address	:	B.N. Jagatap , BARC, Mumbai <i>Empowering the Nation with Inclusive Innovations</i>
Platinum Jubilee Lecture	:	A. Bharathi , IGCAR, Kalpakkam <i>Studies on Substituted BaFe₂As₂ Single Crystals: Superconducting & Spin Density Wave Ground States</i>
Young Scientist Award presentation	:	R.V. Nair , BARC, Mumbai <i>Self-assembled Nanostructures for Photonics Applications</i>
Symposium	:	Research Frontiers in Physics: <i>Universities-Research Institutes Collaborations for Inclusive Innovations</i>
Invited Lectures	:	Amit Roy , IUAC, New Delhi <i>Challenges of Research in Universities: Role of Inter-University Centres</i>
	:	S. Kailas , BARC, Mumbai <i>Synergy between National Labs and Teaching Institutes for Pursuit of Frontiers in Science</i>
	:	P.D. Gupta , RRCAT, Indore <i>Overview of Accelerator Programmes at RRCAT</i>
	:	. Raghav Varma , IITB, Mumbai <i>Introducing Accelerator Science and Technology in Academic Institutes</i>
SECTIONAL COMMITTEE ELECTION		



January 05, 2011	
14:00 – 17.30	
Venue	: Campus-3, Hall D5, KIIT University
Symposium	
	: Research Frontiers in Physics: <i>Universities-Research Institutes Collaborations for Inclusive Innovations (continued)</i>
Invited Lectures	: Rupak Mahapatra , Texas A&M, USA <i>World-wide Dark Matter Search Experiments and Possible New Project in India</i>
	: V.M. Datar , BARC, Mumbai <i>The India based Neutrino Observatory: A Laboratory for Studying Rare Processes</i>
	: D.P. Mohapatra , IOP, Bhubaneswar <i>Some Interesting Results on Si Nanoclusters Synthesized in Si Through a Double Au Implantation</i>
Symposium	
	: Advances in Photonics and Metamaterials
Invited Lectures	: B.P. Singh , IITB, Mumbai <i>Opportunities and Challenges in Photonics: An Indian Perspective</i>
	: Subal Kar , Calcutta University, Kolkata <i>Advances in Metamaterial Research</i>
	: P.K. Gupta , RRCAT, Indore <i>Biophotonics: Studies at RRCAT</i>

	:	J. Banerjee , PRL, Ahmedabad <i>Ultra-sensitive Dual-mode Waveguide Interferometers</i>
		S. Das , BARC, Mumbai <i>Electromagnetic Momentum and Energy inside Negative Refractive Indexed Material: A New Look at Concept of Photon</i>

January 06, 2011		
14:00 – 17.30		
Venue		Campus-3, Hall D5, KIIT University
Symposium		Advances in Photonics and Metamaterials (continued)
Invited Lectures	:	P. Pradeep , NIT, Calicut <i>Intrinsically Conducting Elastomers: Towards Electronic and Photonic Applications</i>
	:	K. Dasgupta , BARC, Mumbai <i>High Power Tunable Lasers in Science & Technology</i>
		Ritwick Das , NISER, Bhubaneswar <i>High power, Fiber based, Continuous Wave Optical Parametric Sources in the Near- and Mid- Infrared</i>
	:	R.N. Singh , IRDE Dehradun <i>Recent Advances in Infrared Sensors for Thermal Imaging: Non-uniformities Compensation</i>
Poster Session		

January 07, 2011		
14:00 – 16:00		
Venue		Campus-3, Hall D5, KIIT University

Invited Talks	:	J.N. Dahiya , Missouri State University, USA <i>Applications of Cd-Te Quantum Dot Nanoparticles in Biomedical Research</i>
	:	S.H. Behere , BAMU, Aurangabad <i>Fractal Growth Study by Simulation</i>
	:	V.K. Rastogi , Meerut <i>Vibrational Spectroscopic Characterisation of Biologically Active Complexes of Zn(II) and Cu(II) with 5-Bromouracil</i>
Oral Presentations	:	Biswajit Mallick , IOP, Bhubaneshwar <i>A New X-ray Effect: Hypothesis and its Observation</i>
	:	A.N. Singh , BHU, Varanasi <i>An Ab Initio and DFT Study for Electronic Structure and Spectra of Lamivir and Baraclude Drugs (Anti-hepatitis B Infection Treatment)</i>
	:	Aithal K.S. , MAHE, Manipal <i>Biosensors: Perspective in Human Welfare</i>
GENERAL DISCUSSION AND RECOMMENDATIONS		