DAE-BRNS Theme Meeting on Ultrafast Science-2018 (UFS-2018) October 22-24, 2018 Convention Centre, Raja Ramanna Centre for Advanced Technology, Indore (M.P.)

PROGRAMME SCHEDULE



Day-1, Monday, October, 22, 2018					
Time	Program				
8:30-9:30	Registration				
9:30-11:00	Inaugural session: Presided over by Dr. P.A. Naik, Director, RRCAT				
	Keynote Address: Prof. Kankan Bhattacharya				
	Inauguration of exhibition by Prof. Kankan Bahttacharya				
	•	Directors Tea (11:00-11:30)			
Technical Session-1					
	Chairpe	rson - Dr. K. Bhattacharya, IISER, Bhopal			
		Plenary Lecture by			
	PL-1	Prof. Narayana Rao, UoH, Hyderabad			
11:30-12:15		1D Photonic Crystal: Cavity Enhancements in			
11.00 11.10		Nonlinear Absorption and Photoluminescence of			
		BaTiO3 and Slow Light Demonstration at the Band			
		Edges			
12:15-12:45	IT-1	Dr. H.N. Ghosh, INST, Mohali			
		Ultrafast Exciton-Plasmon Dynamics in			
		Semiconductor-Metal and Semiconductor-Janus			
		Hetero-Structures			
12:45-13:15	IT-2	Dr. A. Datta, IIT-Bombay, Mumbai			
		Ultrafast processes in solvent mixtures and			
		nanomaterials			

Lunch-13:15-14:15

Technical Session-2					
	Chairperson - Dr. P.A.Naik, RRCAT				
14:15-14:45	IT-3	Dr. M. Krishnamurthy, TIFR, Hyderabad			
	11-3	Acceleration of neutral atoms in laser produced plasmas			
14:45-15:15	IT-4	Dr. J.A. Chakera, RRCAT, Indore			
14:45-15:15	11-4	Ultrashort xuv/x-ray generation and its applications			
		Dr. S. V. Rao, UoH, Hyderabad			
15:15-15:45	IT-5	Femtosecond Laser Processing and Applications: New			
		Avenues			
		Tea-15:45-16:00			
16:00-16:40	Technical Presentations				
Technical Session-3					
Chairperson- Dr. U. Bovensiepen, University of Duisberg-Essen, Germany					
		Dr. S. S. Prabhu, TIFR, Mumbai			
16:40-17:10	IT-6	Tera Hertz (THz) Sources and Detectors Using Modified Bulk, Surface and Antenna Designs			
17:10-17:40	IT-7	Dr. R. N. Kini, IISER, Thiruvananthapuram			
		Charge Density Wave in spin ladder compound Sr ₁₄ Cu ₂₄ O ₄₁ studied using Terahertz spectroscopy			
17:40-18:10	IT-8	Dr. Sayan Bhattacharyya, CAFM, IISER-Kolkata, Mohanpur			
		Solar Cells by Quantum Dots			
	Dinner-19:30 Onwards				

Day-2, Tuesday, October, 23, 2018					
Technical Session-4					
	Chairpe	rson- Dr. D. Narayana Rao, UoH, Hyderabad			
9:30-10:15	PL-2	Plenary Lecture by			
		Prof. U. Bovensiepen, Uni. of Duisberg-Essen, Germany			
		Energy dissipation dynamics in strongly correlated			
		electron systems driven out of equilibrium			
40.45.40.45	IT-9	Dr. A. Barman, SNBNCBS, Kolkata			
10:15-10:45		Ultrafast Spin Orbitronics			
10.45 11.15	IT-10	Dr. J. Jayabalan, RRCAT, Indore			
10:45-11:15		Ultrafast Charge Transport in Hybrid Nanomaterials			
		Tea-11:15-11:45			
		Technical Session-5			
	Chairperson- Dr. A. K. Kar, Heriot Watt University, UK				
	IT-11	Dr. D. K. Palit, UM DAE-CBS, Mumbai			
11:45-12:15					
11.45-12.15	IT-11	Ultrafast Dynamics of Hydrogen Bond: Time-Resolved			
11.45-12.15	IT-11	Ultrafast Dynamics of Hydrogen Bond: Time-Resolved Infrared Spectroscopic Study			
11.43 12.13	IT-11				
12:15-12:45	IT-11 IT-12	Infrared Spectroscopic Study Dr. Pratik Sen, IIT-Kanpur, Kanpur Photo-induced Electron and Proton Transfer Reaction in			
	=	Infrared Spectroscopic Study Dr. Pratik Sen, IIT-Kanpur, Kanpur Photo-induced Electron and Proton Transfer Reaction in Marcus Inverted Region			
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	=	Infrared Spectroscopic Study Dr. Pratik Sen, IIT-Kanpur, Kanpur Photo-induced Electron and Proton Transfer Reaction in Marcus Inverted Region A Samantha, UoH, Hyderabad Ultrafast Charge Carrier Dynamics and			
12:15-12:45	IT-12	Infrared Spectroscopic Study Dr. Pratik Sen, IIT-Kanpur, Kanpur Photo-induced Electron and Proton Transfer Reaction in Marcus Inverted Region A Samantha, UoH, Hyderabad Ultrafast Charge Carrier Dynamics and Photoluminescence of All-Inorganic Perovskite and			
12:15-12:45	IT-12	Infrared Spectroscopic Study Dr. Pratik Sen, IIT-Kanpur, Kanpur Photo-induced Electron and Proton Transfer Reaction in Marcus Inverted Region A Samantha, UoH, Hyderabad Ultrafast Charge Carrier Dynamics and			

	Technical Session-6				
	Poster Session				
14:15-16:00		Poster Presentation and Tea			
16:05-16:45		Technical Presentation			
	Technical Session-7				
Sessi	Session-7: Chairperson- Shri S.V. Nakhe, RRCAT, Indore				
	1T-14	Dr. P. K. Datta, IIT-Kharagpur, Kharagpur			
16:45-17:15		Probing Exciton Dynamics in Transition Metal Dichalcogenides Through Broadband Transient			
		Absorption Spectroscopy			
	IT-15	Dr. K. K. Pant, RRCAT, Indore			
17:15-17:45		An infra-red FEL based user facility for materials research			
	IT-16	Dr. P.K. Mukhopadhyay, RRCAT, Indore			
17:30-18:00		Generation and Amplification of Dissipative Solitons in Fiber Laser			
18:00-18:30	Tea				
18:30-20:00	Cultural Programme				
20:00 onwards	Dinner				

Day-3, Wednesday, October, 24, 2018					
Technical Session-8					
Chairperson- Dr. P.B.Bisht, IIT-Madras, Chennai					
9:15-10:00	PL-3	Plenary Lecture by			
		Dr. A. K. Kar, Heriot Watt University, UK			
		Integrated Photonic Manufacturing Enabled by Ultrafast Laser Technology			
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	IT-17	Dr. Manoj Kumar Bhuyan, CSIR-CSIO, Chandigarh			
10:00-10:30		Nano-fabrication and Ultrafast Dynamics of Silica Glass			
		Excited by Bessel Laser Beams			
	IT-18	Dr. Gopal Dixit, IIT-Bombay, Mumbai			
10:30-11:00		Probing Defects via High-Harmonic Generation from Solids			
	Tea-11:00-11:30				
	Technical Session-9				
	Chairperson- Dr. D. K. Palit, UM DAE-CBS, Mumbai				
	IT-19	Dr. Jahur Alam Mondal, BARC, Mumbai			
11:30-12:00		Laser Spectroscopy at "Molecular" and "Macroscopic"			
		Interfaces			
	IT-20	Dr. A. K. Chaudhary, ACHREM, UoH, Hyderabad			
12:00-12:30		Evaluation of some organic crystals for efficient THz			
12:00-12:30		generation and its Application in spectroscopy of High			
		Energy Materials			
12:30-13:00	Concluding Session: Presided over by Dr. P.A. Naik, Director, RRCAT				

Lunch-13:00-14:30