One-Day Discussion Meeting on Dynamics of Chemical and Biological Systems

Date: January 07, 2018 Venue: PBCEC Lecture room

Time	Speaker	Title of Talk
9:10 – 9:15	Opening Remarks	
Session I: Chairman: A. Chandra		
9:15 - 9:45	K. Tominaga (Kobe	Two-dimensional IR spectroscopy on vibrational
	University)	frequency fluctuations in aqueous solutions
9:45 - 10:15	D. Goswami (IIT	Controlling solvent dynamics at nanoscale using
	Kanpur)	femtosecond optical tweezers and pump-probe
10.15 10.15	D. III. Mar. (CAVID	spectroscopy
10:15 - 10:45	Rajib Mitra (SNB	Application of THz Spectroscopy in Chemistry and
10 45 11 15	Centre, Kolkata)	Biology: Recent Advances and Challenges
10:45 -11:15 TEA + Group Photo Session II: Chairman: D.L.V.K. Prasad		
		Effect of ion on collective evicatetics velocation of water
11:15 –11:45	Shinji Saito (IMS,	Effect of ion on collective orientation relaxation of water
11:45 –12:15	Okazaki) Debashree	Drien eggregation
11:45 -12:15	Chakraborty (NIT	Prion aggregation
	Karnataka)	
12:15 -12:35	Abhinav Gupta	Efficient Exploration of High Dimensional Free Energy
12.13 12.33	Abrilliav Gupta	Landscapes
12:35 -12:55	Saheb Dutta	Aminoacylation reaction catalysed by Aspartyl tRNA
12.55 12.55	Saneb Datta	Synthetase: A proton hopping mechanism of the charging
		step through water at the active site"
12:55 - 14:20	LUNCH BREAK	otop in ough water at the delive one
Session III: Chairman: Vishal Govindrao		
14:20 -14:50	E. Chatani (Kobe	Observation of phospholipid membrane disruption
	University)	associated with the fibrillation of amyloid β peptide
14:50 -15:20	M. Chandra	Unveiling the modulating role of extracellular pH in
		permeation and accumulation of small molecules in
		subcellular compartments of Gram-negative <i>E. coli</i> using
		nonlinear spectroscopy
15:20- 15:40	Nidhi Sorout	Effects of boron nitride nanotubes on the secondary
		structure of Amyloid β-peptide: Inhibition of amyloid
		aggregation via different pathways.
15:40 -16:00	Ramsha Javed	Enhance Sampling of Reaction Pathways
16:00 -16:30	TEA	
Session IV: Chairman: T.G. Gopakumar		
16:30 –17:00	N. Yamamoto	Protein hydration dynamics probed by broadband
		dielectric spectroscopy and neutron scattering
17:00 –17:30	P. Sen (IIT Kanpur)	Shift of Excitation Spectra at the Blue Edge of Emission
		(BEEmS): A New Methodology to Probe Heterogeneity
17:30 –17:50	Deepika	Terahertz Spectra of Aqueous Systems from Molecular
		Dynamics Simulations with Polarizable Models
17:50 –18:10	Nilimesh Das	Size-Dependent Macromolecular Crowding Effect on
10.10.15		Protein
18:10 –18:15	Concluding Remarks	