



Venue: IIT Powai, Victor Menezes Convention Centre (VMCC), Lecture Hall No. 21, IInd floor.

Thursday 7 January

11:00	Registration, Tea and Coffee	
11:45	Welcome and Introductions Sanat Kumar <i>Chair, Scientific Committee</i>	
12:10	Outline of Discussion Format <i>Publishing Editors</i>	
12:15	Introductory Lecture <u>Steve Granick</u> <i>IBS Center for Soft and Living Matter, Korea, and University of Illinois at Urbana-Champaign, USA</i>	
13:00	Discussion	
13:15	Lunch at VMCC, IInd Floor foyer	
	Session 1: Synthesis of Nanoparticle Assemblies Session Chair: Sanat Kumar	
14:00	Tailoring structure formation and mechanical properties of particle brush solids via homopolymer addition Michael Schmitt, Chin Ming Hui, Zachary Urbach, Jiajun Yan, Krzysztof Matyjaszewski and <u>Michael R. Bockstaller</u> <i>Carnegie Mellon University</i>	Paper 7907
14:05	Soft-shear induced phase-separated nanoparticle string-structures in polymer thin films Ren Zhang, Bongjoon Lee, Michael R. Bockstaller, Abdullah M. Al-Enizi, Ahmed Elzatahry, Brian C. Berry and <u>Alamgir Karim</u> <i>University of Akron</i>	Paper 8775
14:10	Microtubule targeted therapeutics loaded polymeric assembled nanospheres for potentiation of antineoplastic activity <u>Radhika Poojari</u> , Rohit Srivastava and Dulal Panda <i>Indian Institute of Technology Bombay</i>	Paper 8473
14:15	Discussion	
15:30	Afternoon Tea	
	Session 1 resumes: Synthesis of Nanoparticle Assemblies Session Chair: Steve Granick	
16:00	Colloidal assembly by ice templating <u>Guruswamy Kumaraswamy</u> , Bipul Biswas and Chandan K. Choudhury <i>CSIR-National Chemical Laboratory, Pune</i>	Paper 7906
16:05	Highly stable noble metal nanoparticles dispersible	Paper

	in biocompatible solvents: synthesis of cationic phosphonium gold nanoparticles in water and DMSO <u>Yon Ju-Nam</u> , Wanisa Abdussalam-Mohammed and Jesus J. Ojeda <i>Swansea University</i>	8584
16:10	Large-scale dynamic assembly of metal nanostructures in plasmofluidic field Partha Pratim Patra, Rohit Chikkaraddy, Sreeja Thampi, Ravi P. N. Tripathi and <u>G. V. Pavan Kumar</u> <i>IISER Pune</i>	Paper 8599
16:15	2D-patterning of self-assembled silver nanoisland films <u>Semen Chervinskii</u> , Igor Reduto, Alexander Kamenskii, Ivan S. Mukhin and Andrey A. Lipovskii <i>University of Eastern Finland</i>	Paper 8579
16:20	Discussion	
18:00	Poster Session – Even numbers	
19:00	Poster session – Odd numbers	
20:00	Dinner at VMCC, lind Floor foyer	

Friday 8 January

	Session 2: Modeling and Theory Session Chair: Charu Chakravarty	
09:00	Dewetting dynamics of a gold film on graphene: implications for nanoparticle formation Sadanandam Namsani and <u>Jayant K. Singh</u> <i>Indian Institute of Technology Kanpur</i>	Paper 7908
09:05	Chiral self-assembly of helical particles Hima Bindu Kolli, Giorgio Cinacchi, Alberta Ferrarini and <u>Achille Giacometti</u> <i>Università Ca' Foscari di Venezia</i>	Paper 8490
09:10	Enhancement of nucleation of protein crystals on nano-wrinkled surfaces Praveen K. Bommineni and <u>Sudeep Punathanam</u> <i>Indian Institute of Science, Bangalore</i>	Paper 8547
09:15	Analyzing a fractal gel of charged oblate nanoparticles in a suspension using time-resolved rheometry and DLVO theory Shweta Jatav and <u>Yogesh M. Joshi</u> <i>Indian Institute of Technology Kanpur</i>	Paper 8570
09:20	Discussion	
11:00	Morning Tea	
	Session 2 resumes: Modeling and Theory Session Chair: Nicholas Kotov	
11:30	Effect of co-ordination number on the nucleation behaviour in many-component self-assembly Aleks Reinhardt, Chon Pan Ho and <u>Daan Frenkel</u> <i>University of Cambridge</i>	Paper 7904
11:35	How do polydisperse repulsive colloids crystallize? <u>Robert Botet</u> , Bernard Cabane, Lucas Goehring, Joaquim Li and Franck Artzner <i>CNRS</i>	Paper 8522

11:40	Magnetic filament brushes: tuning the properties of a magnetoresponsive supracolloidal coating <u>Pedro A. Sánchez</u> , Elena S. Pyanzina, Ekaterina V. Novak, Joan J. Cerdà, Tomàs Sintes and Sofia S. Kantorovich <i>University of Vienna</i>	Paper 8800
11:45	Membrane-mediated aggregation of anisotropically curved nanoparticles Alexander D. Olinger, Eric J. Spangler, <u>P. B. Sunil Kumar</u> and Mohamed Laradji <i>Indian Institute of Technology Madras</i>	Paper 8671
11:50	Discussion	
13:30	Lunch at VMCC, IInd Floor	
	Session 3: Nanocomposites Session Chair: Alamgir karim	
14:30	Revealing nanocomposite filler structures by swelling and small-angle X-ray scattering Guilhem P. Baeza, Anne-Caroline Genix, Nathalie Paupy-Peyronnet, Christophe Degrandcourt, <u>Marc Couty</u> and Julian Oberdisse <i>Manufacture Française des Pneumatiques MICHELIN</i>	Paper 7903
14:35	Structural characterization of aqueous solution poly(oligo(ethylene oxide) monomethyl methacrylate)-grafted silica nanoparticles Arnaldo T. Lorenzo, Ramakrishna Ponnampati, Tirtha Chatterjee and <u>Ramanan Krishnamoorti</u> <i>University of Houston</i>	Paper 8610
14:40	Interplay between polymer chain conformation and nanoparticle assembly in model industrial silica/rubber nanocomposites Adrien Bouty, Laurent Petitjean, Julien Chatard, Rachid Matmour, Christophe Degrandcourt, Ralf Schweins, Florian Meneau, Paweł Kwasniewski, François Boué, Marc Couty and <u>Jacques Jestin</u> <i>Laboratoire Léon Brillouin CEA-CNRS</i>	Paper 8683
14:45	Discussion	
16:00	Afternoon tea	
	Session 3 resumes: Nanocomposites Session Chair: BLV Prasad	
16:30	Chiroptical activity of plasmonic silver nanocaps and gas sensing Jun Li and <u>Nicholas A. Kotov</u> <i>University of Michigan</i>	Paper 7905
16:35	Sn_xTi_{1-x}O₂ solid-solution-nanoparticle embedded mesoporous silica (SBA-15) hybrid as an engineered photocatalyst with enhanced activity N. R. Srinivasan and <u>Rajdip Bandyopadhyaya</u> <i>IIT Bombay</i>	Paper 8623
16:40	Discussion	
17:30	Close of sessions & coach to conference dinner	
18:30	Conference Dinner at Courtyard by Marriott International Airport	

Saturday 9 January

	Session 4: Applications to Soft Matter Session Chair: Daan Frenkel	
09:00	Dynamics of dissipative self-assembly of particles interacting through oscillatory forces M. Tagliazucchi and <u>I. Szleifer</u> <i>Northwestern University</i>	Paper 7909
09:05	Nano ellipsoids at the fluid–fluid interface: effect of surface charge on adsorption, buckling and emulsification Venkateshwar Rao Dugyala, Thiriveni G. Anjali, Siliveru Upendar, Ethayaraja Mani and <u>Madivala G. Basavaraj</u> <i>Indian Institute of Technology Madras</i>	Paper 8627
09:10	Transport of nanoparticulate material in self-assembled block copolymer micelle solutions and crystals Vicki A. Cheng and <u>Lynn M. Walker</u> <i>Carnegie Mellon University</i>	Paper 7911
09:15	Discussion	
10:30	Morning Tea	
	Session 4 resumes: Applications to Soft Matter Session Chair: Vinothan manoharan	
11:00	Aggregation and stability of anisotropic charged clay colloids in aqueous medium in the presence of salt Samim Ali and <u>Ranjini Bandyopadhyay</u> <i>Raman Research Institute</i>	Paper 8549
11:05	Designing disordered materials using DNA-coated colloids of bacteriophage fd and gold Z. Ruff, S. H. Nathan, R. R. Unwin, M. Zupkauskas, D. Joshi, G. P. C. Salmond, C. P. Grey and <u>E. Eiser</u> <i>University of Cambridge</i>	Paper 8600
11:10	Modular, polymer-directed nanoparticle assembly for fabricating metamaterials Gurunatha K. Laxminarayana, Matthew Rozin, Stephanie Smith and <u>Andrea R. Tao</u> <i>University of California, San Diego</i>	Paper 7910
11:15	Discussion	
12:30	Concluding remarks <u>Oleg Gang</u> <i>Brookhaven National Laboratory</i>	
13:15	Acknowledgements	
13:30	Lunch at VMCC, IInd Floor foyer	

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author. If the presenting author of your paper has changed since abstract selection please email events@rsc.org. Please note that this is a draft programme and timings may change.