



Monday 20 April

11:00	Registration, Tea and Coffee	
12:00	Lunch	
12.45	Welcome and Introductions Argonne Deputy Director Alfred P. Sattelberger and Chair of Scientific Committee	
12:55	Outline of Discussion Format Publishing Editors	
13:00	Introductory Lecture Paul Alivisatos <i>University of California, Berkeley, USA</i>	
13:50	Discussion	
	Session 1: New routes to control nanoparticle synthesis (part 1) Session Chair: Elena Shevchenko, <i>Argonne National Laboratory</i>	
14:00	Platinum and platinum based nanoalloys synthesized by wet chemistry Christophe Petit*, Caroline Salzemann, Farid Kameche, Anh-Tu Ngo, Pascal Andreazza and Monica Calatayud <i>University P. & M. Curie, France</i>	Paper 4691
14:05	Bicontinuous microemulsions for high yield, wet synthesis of ultrafine nanoparticles: a great approach Ger Koper*, Roman Latsuzbaia and Emanuela Negro <i>TU Delft, The Netherlands</i>	Paper 5236
14:10	A new route towards colloidal molecules with externally tunable interaction sites Peter Schurtenberger*, Linda Månsson, Jasper N. Immink, Adriana M. Mihut and Jérôme J. Crassous <i>Lund University, Sweden</i>	Paper 4689
14:15	Discussion	
15:30	Afternoon Tea	
	Session 2: New routes to control nanoparticle synthesis (part 2) Session Chair: Chris Sorensen, <i>Kansas State University</i>	
16:00	Biologically controlled synthesis and assembly of magnetite nanoparticles Damien Faivre*, Mathieu Bennet, Robert Neely, Andreas Schertel, André Körnig, Cristina Flors, Frank D. Müller, Dirk Schüler, Stefan Klumpp and Luca Bertinetti <i>Max Planck Institute of Colloids and Interfaces, Germany</i>	Paper 5013
16:05	Kinetics of aggregation and growth processes of PEG-stabilised mono- and multivalent gold nanoparticles in highly concentrated halide solutions	Paper 5373

	Christina Graf*, Benjamin Stein, David Zopes, Madlen Schumde, Ralf Schneider, Ahmed Mohsen, Christian Goroncy and Sanjay Mathurb <i>Freie Universitaet, Berlin, Germany</i>	
16:10	A thermodynamic gauge for mobile counter ions from c colloids and nanoparticles Albert Philipse*, Bonny W.M Kuipers and Agienus Vrij <i>Utrecht University, The Netherlands</i>	Paper 4688
16:15	Discussion <i>With invited discussion remark by Dmitri Talapin, University of Chicago</i>	
17:30	Lightning presentations (by invitation of the Scientific Committee)	
17:45	Poster session and Wine reception <i>Sponsored by Cogent</i>	
19:00	Dinner	

Tuesday 21 April

	Session 3: New routes to control nanoparticle synthesis (part 3) Session Chair: Yugang Sun, <i>Argonne National Laboratory</i>	
09:00	Soft-patchy nanoparticles: modelling and self-organization Emanuela Bianchi*, Christos Likos, Barbara Capone and Gerhard Kahl <i>University of Vienna, Austria</i>	Paper 4687
09:05	Synthesis of multivalent silica nanoparticles combining both enthalpic and entropic patchiness Etienne Duguet*, Serge Ravaine, Céline Hubert, Cyril Chomette, Anthony Désert, Ming Sun, Adeline Perro, Stéphane Mornet, and Mona Tréguer-Delapierre <i>CNRS, University of Bordeaux, France</i>	Paper 5367
09:10	Discussion	
10:00	Morning Tea	
	Session 4: Self-assembly process control Session Chair: Xiao-Min Lin, <i>Argonne National Laboratory</i>	
10:30	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting? Brian Korgel*, Yixuan Yu, Avni Jain, Adrien Guillaussier, Vikas Reddy Voggu, Thomas M. Truskett and Detlef-M. Smilgies <i>University of Texas, Austin, USA</i>	Paper 4686
10:35	Concentrated assemblies of magnetic nanoparticles in ionic liquids Régine Perzynski*, Marianna Mamusa, Juliette Sirieix-Plénet, Fabrice Cousin, Emmanuelle Dubois and Véronique Peyre <i>Université Pierre et Marie Curie – Paris 6, France</i>	Paper 5334
10:40	Trioctylphosphine as self-assembly inducer Gunadhor S. Okram*, Jaiveer Singh, Netram Kaurav and Niranjana P. Lalla <i>UGC-DAE Consortium for Scientific Research, India</i>	Paper 5275

10:45	Discussion	
12:00	Lunch	
	Session 5: Drying mediated self-assembly process Session Chair: Bruce Law, <i>Kansas State University</i>	
13:00	Insights into mechanisms of capillary assembly Lucio Isa*, Songbo Ni, Jessica Leemann and Heiko Wolf <i>ETH Zurich, Switzerland</i>	Paper 4685
13:05	Optically anisotropic substrates via wrinkle-assisted convective assembly of gold nanorods on macroscopic areas Andreas Fery*, Tobias A.F König, Matthias Karg, Munish Chanana, Christian Kuttner, Christoph Hanske, Martin Mayer, Bernhard A. Glatz, Patrick T. Probst, Mareen B. Müller and Moritz Tebbe <i>University of Bayreuth, Germany</i>	Paper 5359
13:10	Soft repulsive interactions, particle rearrangements and size selection in the self-assembly of nanoparticles at liquid interfaces Emanuela Del Gado*, Konrad Schwenke <i>Georgetown University, USA</i>	Paper 5381
13:15	Monitoring pattern formation in drying and wetting dispersions of gold nanoparticles by ESEM Casper Kunstmann-Olsen* Mathias Brust and Domagoj Belić <i>University of Liverpool, UK</i>	Paper 5358
13:20	Discussion	
15:00	Afternoon Tea	
	Session 6: Properties of self-assembled nanostructures Session Chair: Fernando Bresme, <i>Imperial College London</i>	
15:30	Mechanical properties of self-assembled nanoparticle membranes: stretching and bending Yifan Wang*, Pongsakorn Kanjanaboos, Sean P. McBride, Edward Barry, Xiao-Min Lin and Heinrich M. Jaeger <i>University of Chicago, USA</i>	Paper 5364
15:35	Temperature effects on nanostructure and mechanical properties of single-nanoparticle thick membranes K. Michael Salerno*, Gary Grest <i>Sandia National Laboratories, USA</i>	Paper 5369
15:40	Determination of a localized surface plasmon resonance mode of Cu₇S₄ nanodisks by plasmon coupling Toshiharu Teranishi*, Lihui Chen, R.Sato and Masanori Sakamoto <i>Kyoto University, Japan</i>	Paper 4682
15:45	Discussion <i>With invited discussion remark by Subramanian Sankaranarayanan, Argonne National Laboratory</i>	
17:00	Close of sessions	
17:00	Facility Tour: Centre for Nanoscale Materials	

18:30	Pre-Dinner Drinks - Argonne Guest House
19:00	Conference Dinner - Argonne Guest House

Wednesday 22 April

	Session 7: Field-assisted self-assembly process (part 1) Session Chair: Helmurt Mohwald, <i>Max Planck Institute of Colloids and Interfaces</i>	
09:00	Low-current field-assisted assembly of copper nanoparticles for current collectors Nicholas Kotov*, Lehao Liu, Bong Gill Choi, Siu On Tung, Yajie Liu, Tiehu Li and Tingkai Zhao <i>University of Michigan, USA</i>	Paper 5375
09:05	Magnetic field-induced self-assembly of iron oxide nanocubes Rafal Klajn*, Gurminder Singh, Henry Chan, Artem Baskin, Elijah Gelman, Gregory Leitius, T. Udayabhaskararao, Davide Peddis and Petr Kral <i>Weizmann Institute of Science, Israel</i>	Paper 5262
09:10	Discussion <i>With invited discussion remark by Petr Kral, University of Illinois at Chicago</i>	
10:00	Morning Tea	
	Session 8: Field-assisted self-assembly process (part 2) Session Chair: Subramanian Sankaranarayanan, <i>Argonne National Laboratory</i>	
10:30	Changing the magnetic properties of microstructure by directing the self-assembly of superparamagnetic nanoparticles Ishwar K. Puri* , Suvojit Ghosh <i>McMaster University, Canada</i>	Paper 5374
10:35	Magnetophoretic assembly of flexible nanoparticles/lipid microfilaments Orlin D. Velev*, Bhuvnesh Bharti and Anne-Laure Fameau <i>North Carolina State University, USA</i>	Paper 5351
10:40	Directing the orientational alignment of anisotropic magnetic nanoparticles using dynamic magnetic fields Sabrina Disch*, Daniel Hoffelner, Matthias Kundt, Annette M. Schmidt, Emmanuel Kentzinger and Philipp Bender <i>University of Cologne, Germany</i>	Paper 5376
10:45	Discussion	
12:00	Concluding remarks David Schiffrin <i>University of Liverpool, UK</i>	
12:55	Acknowledgements	
13:00	Close of meeting	
13:00	Lunch	