

Programme

Faraday Discussion 158: Soft Matter Approaches to Structured Food 2 – 4 July, 2012 Hof van Wageningen, Netherlands

Monday 2 July

11:45	Lunch <i>Held in the Terraszaal Suite</i>
12:45	Welcome and Introductions Dr Ruud van der Sman
13.00 Paper 1	Introductory Lecture: Dr Job Ubbink <i>Nestlé Research Centre, Switzerland</i>
Session 1	Structuring Formation via External Fields (Shear, Intensive Heating, Electric) Session Chair: Professor Martien Cohen-Stuart
14:00 Paper 2	Designing colloidal structures for micro and macro nutrient content and release in foods David A. Garrec, Sarah Frasch-Melnik, John V. L. Henry, Fotios Spyropoulos and Ian T. Norton* <i>University of Birmingham, UK</i>
14:05 Paper 3	Protein cluster formation during enzymatic cross-linking of globular proteins Yunus Saricay, Surender Dhayal, Kumar Dhayal, Peter Alexander Wiereng and Renko de Vries* <i>Wageningen University, The Netherlands</i>
15:00	Afternoon Tea Session Chair: Professor Sandra Hill
15:30 Paper 4	Anomalies in moisture transport during broccoli drying monitored by MRI? Xin Jin,* Antonius J. B. van Boxtel, Edo Gerkem, Frank J. Vergeldt, Henk T. van As, Gerrit van Straten, Remko M. Boom and Ruud G. M. van der Sman <i>Wageningen University, The Netherlands</i>
15:35 Paper 5	Structural changes of deposited casein micelles induced by membrane filtration R. Gebhardt,* T. Steinhauer, P. Meyer and U. Kulozika <i>Technische Universität München, Germany</i>
15:40 Paper 6	Model for particle migration in bidisperse suspensions by use of effective temperature Martijntje Vollebregt*, Ruud van der Sman and Remko Boom <i>Wageningen UR Food & Biobased Research, The Netherlands</i>
17:00	Close of Sessions
17:00 – 18:30	Poster Session and Wine Reception
	Free evening

Tuesday 3 July

Session 2	Structuring Formation via Self-Assembly (Adsorption at Interfaces/Organogels) Session Chair: Dr Ramille Ettelaie
09:00 Paper 7	Stability of aqueous food grade fibrillar systems against pH change Ardy Kroes-Nijboer, Hassan Sawalha, Paul Venema, Erik van der Linden*, Arjen Bot, Eckhard Flöter, Ruud den Adel and Wim G. Bouwman <i>Wageningen University, The Netherlands</i>
09:05 Paper 8	Quinoa starch granules as stabilizing particles for production of Pickering emulsions Marilyn Rayner, Malin Sjöö, Anna Timgren, and Petr Dejmek* <i>Lund University, Sweden</i>
09:10 Paper 9	Soy milk oleosome behaviour at the air–water interface Gustav Waschatko*, Ann Junghans and Thomas A. Vilgis <i>Max Planck Institute for Polymer Research, Germany</i>
10:30	Morning coffee Session Chair: Professor Martien Cohen-Stuart
11:00 Paper 10	Critical laminar shear-temperature effects on the nano- and mesoscale structure of a model fat and its relationship to oil binding and rheological properties Nuria C. Acevedo, Jane M. Block and Alejandro G. Marangoni* <i>University of Guelph, Canada</i>
11:05 Paper 11	Surface shear rheology of hydrophobin adsorption layers: laws of viscoelastic behaviour with applications to long-term foam stability Krasimir D. Danov, Gergana M. Radulova, Peter A. Kralchevsky, Konstantin Golemanov and Simeon D. Stoyanov* <i>Unilever Research & Development Vlaardingen, The Netherlands</i>
11:10 Paper 12	Elucidation of density profile of self-assembled sitosterol + oryzanol tubules with small-angle neutron scattering Arjen Bot*, Ruud den Adel, Eckhard Flöter, Elliot P. Gilbert, Wim G. Bouwman, Hassan Sawalha, Paul Venema, Erik van der Linden and Vasyl M. Garamus <i>Unilever, The Netherlands</i>
12:30	Lunch : <i>Held in the Terraszaal Suite</i>
Session 3	Slow Dynamics in Stabilized/Jammed Foods Session Chair: Dr Bill Firth
14:00 Paper 13	New routes to food gels and glasses Thomas Gibaud, Najet Mahmoudi, Julian Oberdisse, Peter Lindner, Jan Skov Pedersen, Cristiano L. P. Oliveira, Anna Stradner and Peter Schurtenberger* <i>University of Lund, Sweden</i>
14:05 Paper 14	Protein structure and interactions in the solid state studied by small-angle neutron scattering Joseph E. Curtis, Arnold McAuley, Hirsh Nanda and Susan Krueger* <i>NIST Center for Neutron Research, USA</i>
14:10 Paper 15	The role of quench rate in colloidal gels C. Patrick Royall* and Alex Malins <i>University of Bristol, UK</i>
15:30	Afternoon Tea Session Chair: Professor Sandra Hill
16:00 Paper 19	Delayed solidification of soft glasses: new experiments, and a theoretical challenge Yogesh M Joshi, A. Shahin and Michael E. Cates*

	<i>University of Edinburgh, UK</i>
16:05 Paper 17	Slow dynamics and structure in jammed milk protein suspensions Peggy Thomar, Dominique Durand, Lazhar Benyahia, Taco Nicolai* <i>Université du Maine, France</i>
16:10 Paper 18	Arrested coalescence of viscoelastic droplets with internal microstructure Amar B. Pawar, Marco Caggioni, Richard W. Hartel and Patrick T. Spicer* <i>University of Wisconsin, USA</i>
17:30	Close of sessions
19:00	Pre-Dinner Drink
19:30	Conference Dinner

Wednesday 4 July

Session 4	Simulation of Structured Soft Matter/Foods at Multiple Length Scales Session Chair: Dr Ruud van der Sman
08:45 Paper 16	Viscoelastic phase separation in soft matter and foods Hajime Tanaka* <i>University of Tokyo, Japan</i>
08:50 Paper 23	Kinetic model for the mechanical response of suspensions of sponge-like particles Markus Hütter*, Timo J. Faber and Hans M. Wyss <i>Eindhoven University of Technology, The Netherlands</i>
08:55 Paper 21	Nanoscale characteristics of triacylglycerol oils: phase separation and binding energies of two-component oils to crystalline nanoplatelets Colin J. MacDougall, M. Shahajan Razul, Erzsebet Papp-Szabo, Fernanda Peyronel, Charles B. Hanna, Alejandro G. Marangonic and David A. Pink* <i>St.Francis Xavier University, Canada</i>
10:15	Morning Coffee Session Chair: Dr Ramille Ettelaie
10:45 Paper 22	Soft matter approaches as enablers for food macroscale simulation Ashim K Datta*, Ruud van der Sman, Tushar Gulati and Alexander Warning <i>Cornell University, USA</i>
10:50 Paper 20	Numerical study of the effect of thiol-disulfide exchange in the cluster phase of b-lactoglobulin aggregation R.N.W. Zeiler* and P.G. Bolhuis <i>University of Amsterdam, The Netherlands</i>
10:55 Paper 24	A multiscale approach to triglycerides simulations: from atomistic to coarse-grained models and back Antonio Brasiello, Silvestro Crescitelli, Giuseppe Milano* <i>Università di Salerno, Italy</i>
12:15	Concluding Remarks Kees De Kruif <i>Utrecht University, Utrecht</i>
12:45	Acknowledgements
13:00	Close of Meeting