

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| | |
|-------------------------|--|
| Wednesday 28.09. | |
| Plenary Talks | |
| 8.45-9.00 | Welcome remarks |
| 9.00-9.45 | Wiebke Drenckhan (Springer Lecture) <i>tbd</i> |
| 9.45-10.15 | Helmut Coelfen (Liesegang Prize) <i>Analytical Ultracentrifugation in Colloid Analysis: New Insights by a classical technique</i> |

Coffee Break

| Sessions | Applications of Colloidal Systems | Surfactant Science, Membranes, Foams, Microemulsions, Emulsions | Nanoparticles and Supracolloidal Assemblies |
|-------------|--|--|--|
| 10.45-11.15 | Malcolm Faers (Keynote) <i>Suspension Concentrate formulation design and performance for low spray volume and UAS spray application</i> | Martin Haase (Keynote) <i>Separating Chemicals in Nanostructured, Fluid-Bicontinuous Gels</i> | Luciano Galantini (Keynote) <i>From Molecules to Supracolloidal Atomium: Building by Steroidal Amphiphiles</i> |
| 11.15-11.35 | Heinrich Haas (Keynote) <i>tbd</i> | Alessio Sprockel <i>Continuous-Flow Liquid-Liquid extraction in Nanostructured, Fluid-Bicontinuous Gels</i> | Andreas Deák <i>Patchy gold nanoparticles</i> |
| 11.35-11.55 | Marcel Rey <i>Versatile strategy for homogeneous drying of dispersed particles</i> | Sudeepthi Aremanda <i>Generating resonance and anti-resonance effects in electrical double layers: An experimental approach</i> | Frieder Mugele <i>Facet-dependent colloidal interaction forces and surface charge density of crystalline semiconducting nanoparticles</i> |
| 11.55-12.15 | Daniela Vasquez <i>Generation of l-LDDO flow under external flow</i> | Julian Fischer <i>Microflow-induced Structural Changes of Bicontinuous Microemulsions Studied by SANS</i> | Jakob Reichstein <i>Communicating supraparticles: smart additives to foster materials' intelligence and enhance sustainability</i> |
| 12.15-12.35 | | | Minghan Hu <i>Multi-compartment supracapsules towards programmable release</i> |

Lunch Break

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| Plenary Talks | | | |
|----------------------|---|--|--|
| 13.30-14.15 | Junbai Li <i>Molecular Assembly of Biomimetic Systems</i> | | |
| 14.15-14.45 | Juliane Simmchen (Zsigmondy Prize) <i>Photocatalytically active colloids and their behaviour at interfaces</i> | | |
| Sessions | Characterisation of Colloidal Systems | Functional Interfaces | Responsive Colloids |
| 14.50-15.20 | Regine von Klitzing (Keynote) <i>tbd</i> | Sissi de Beer (Keynote) <i>tbd</i> | Jerome Crassous (Keynote) <i>Directed Assembly of Responsive Microgels via Controlled Drying</i> |
| 15.20-15.40 | Naoyuki Ishida <i>Exploring the characteristics of “short-range” hydrophobic attraction between silanated silica surfaces and its origin</i> | Annette Andrieu-Brunsen <i>Asymmetric nanoscale functionalization of mesoporous films using functional block-copolymer templates for in-situ functionalization or plasmonic nanoparticles as nanoscale light source</i> | Franziska Gröhn <i>Double-Wavelength-Switchable and Photocatalysis-Focused Self-Assembly in Water</i> |
| 15.40-16.00 | Christoph Brückner <i>Kinetic Investigations on The Formation Process of Interpolyelectrolyte Complexes from Homopolymers</i> | Ivo Buttinoni <i>Driven and Active Colloidal Crystals at Fluid Interfaces</i> | Matthias Karg <i>Phase Transitions of Microgels Followed by Light and X-ray Scattering</i> |

Coffee Break

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| Sessions | Characterisation of Colloidal Systems | Surfactant Science, Membranes, Foams, Microemulsions, Emulsions | Nanoparticles and Supracolloidal Assemblies |
|-------------|---|---|--|
| 16.30-17.00 | Theyencheri Narayanan (Keynote) <i>Advances in Synchrotron Scattering Methods for Probing the Structure and Dynamics of Colloids</i> | Hiroki Matsubara (Keynote) <i>Surface freezing driven enhanced OW emulsion stability</i> | Debora Berti (Keynote) <i>Membrane Phase Drives the Assembly of Gold Nanoparticles on Biomimetic Lipid Bilayers</i> |
| 17.00-17.20 | Dominik Wöll (Keynote) <i>Cross-links in microgels – visualization and photochemical control</i> | Surinder K. Mehta <i>Designing, characterization, and therapeutic applications of multivariate nanowagons encapsulated with Toll-like receptors (TLRs) and Indoleamine 2,3-dioxygenase (IDO) inhibitor</i> | Alexander Wittemann <i>Insights into Anisotropic Growth and 2D Phase Behaviour of Dumbbell-Shaped Polymer Particles</i> |
| 17.20-17.40 | N.N. (Keynote) <i>tbd</i> | Pavel Matejcek <i>On Self-Assembly of [Cobalt(3+) Bis(1,2-dicarbollide)] anion: Big Complexity of Small Aggregates Produced by Nano-Ions</i> | Andrea Scotti <i>Phase behavior of super soft spheres in two- and three dimensions</i> |
| 17.40-18.00 | Paula Malo de Molina (Keynote) <i>Dynamics of Soft Matter with Quasi Elastic Neutron Scattering</i> | Miriam Simon <i>A cryo-TEM study of the complexation of the cationic lipid DOTAP with oppositely charged polyelectrolytes</i> | Bart-Jan Niebuur <i>Colloidal Stability of Nonpolar Nanoparticles in Solvent Mixtures</i> |

Poster Session I / Colloid Society General Assembly

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| | |
|------------------------|---|
| Thursday 29.09. | |
| Plenary Talks | |
| 8.45-9.30 | Joachim Venzmer <i>Colloid Society: A historical perspective – All set for the next 100 years?</i> |
| 9.45-10.15 | Gero Decher (Steinkopff Prize) <i>tbd</i> |

Coffee Break

| Sessions | Applications of Colloidal Systems | Functional Interfaces | Nanoparticles |
|-------------|---|--|--|
| 10.45-11.15 | Srini Raghavan (Keynote) <i>Electroadhesion of Hydrogels to Tissues: A Simple Way to Perform Suture-Less Surgical Repair</i> | Tobias Kraus (Keynote) <i>tbd</i> | Silvia Giordani (Keynote) <i>Engineering Carbon Nano Onions for targeted drug delivery</i> |
| 11.15-11.35 | Thomas Zemb (Keynote) <i>Liquid/liquid extraction of rare earths by a weakly aggregated ionic hydrotrope</i> | John Texter <i>0D ⊕ 1D = 2D Heterostructures by Supramolecular Assembly</i> | Miroslav Stepanek <i>Multilayered Vesicle-like Nanoparticles Formed by Co-assembly of Oppositely Charged Block Polyelectrolytes</i> |
| 11.35-11.55 | Olha Aftenieva <i>Optical anisotropy with structured light-emitting metasurfaces based on soft lithography approach</i> | Xiaoteng Zhou <i>Fabrication of Stretchable Superamphiphobic Surfaces with Deformation-Induced Rearrangeable Structures</i> | Andreas Fery <i>Plasmonic nanoparticle clusters: Assembly, sensing functionality and beyond</i> |
| 11.55-12.15 | Yan Lu <i>Colloidal synthesis approach for energy materials</i> | Tobias König <i>Functional Interfaces by Colloidal Photonic Crystal Slabs</i> | Cristina Giordano <i>The Renaissance of Metallic Ceramics: from Solid State to Colloids</i> |

Lunch Break

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| Plenary Talks | | | |
|---------------|--|---|--|
| 13.30-14.15 | Michael Cates <i>Rheology of Non-Brownian Suspensions in Time-Dependent Flows</i> | | |
| 14.15-14.45 | Paul Mulvaney (Ostwald Prize) <i>tbd</i> | | |
| Sessions | Characterisation of Colloidal Systems | Wetting Phenomena | Sustainable Formulations and Colloidal Systems |
| 14.50-15.20 | Dganit Danino (Keynote) <i>tbd</i> | Doris Vollmer (Keynote) <i>Liquid-like and lubricant-infused surfaces for long-term applications</i> | Werner Kunz (Keynote) <i>What can solution chemistry contribute to solve environmental problems?</i> |
| 15.20-15.40 | Wolfgang Parak <i>New topics about the nano-bio interface</i> | Honnigfort <i>Molecular Kinetics Control Dynamic Wetting in Photoresponsive Monolayers</i> | Gregory Warr (Keynote) <i>tbd</i> |
| 15.40-16.00 | Nicole Janoszka <i>3D Confinement of ABC Triblock Terpolymers: Mesoporous Multicompartment Microparticles</i> | Eleni Kalogianni <i>Applications of capillary penetration in food technology and quality control</i> | Tomas Omasta <i>Enhanced Solubilization of Fragrances in Solutions of Sugar Surfactants in Natural Deep Eutectic Solvents (NADES)</i> |

Coffee Break

| Sessions | Characterisation of Colloidal Systems | Polyelectrolytes | Sustainable Formulations and Colloidal Systems |
|-------------|---|--|--|
| 16.30-17.00 | Rob Atkin (Keynote) <i>Crystalline Ion Adsorption In Stern Layers At Amorphous Solid/Aqueous Solution Interfaces For Low To Moderate Low Salt Concentrations</i> | Keynote Karin Schillen <i>Condensed Supramolecular Helices: The Twisted Sisters of DANN</i> | Shigeru Deguchi (Keynote) <i>Nanofiber-Based Ultrasensitive Assay for Enzymatic Hydrolysis of Cellulose</i> |
| 17.00-17.30 | Jean-Francois Berret (Keynote) <i>Magnetic Rotational Spectroscopy: a Novel Active Microrheology Technique for Colloids and Gels</i> | André Laschewsky (Keynote) <i>Designing Zwitterionic Polymers for Low-Fouling Surfaces</i> | N.N. (Keynote) <i>tbd</i> |

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| | | | |
|-------------|---|--|--|
| 17.30-17.50 | Claudia Schmidt <i>Colloidal Particles for Tuning the Properties of Gel Polymer Electrolytes</i> | Neus Feliu <i>Assembly and Degradation of Inorganic Nanoparticle in Biological Environment d)</i> | Jochen Gutmann <i>Can PLA be made tough and therefore a sustainable material?</i> |
|-------------|---|--|--|

Poster Session II

Conference Dinner

| | | | |
|----------------------|---|---|---|
| Friday 30.09. | | | |
| Plenary Talks | | | |
| 8.45-9.30 | Matthew Tirrell <i>tbd</i> | | |
| 9.30-10.00 | Peter Schurtenberger (Graham Prize) <i>tbd</i> | | |
| Sessions | Surfactant Science, Membranes, Foams, Microemulsions, Emulsions | Microplastic | Amphiphilic Copolymers |
| 10.05-10.35 | Erin Koos (Keynote) <i>Yielding of mono- and bidisperse capillary suspensions</i> | Christian Laforsch (Keynote) <i>tbd</i> | Felix Plamper (Keynote) <i>Adjustable Viscoelasticity of Gelled Liquid-liquid Interfaces Caused by Interfacial Transformations of Block Copolymer Micelles</i> |
| 10.35-10.55 | Cosima Stubenrauch <i>Surfactant-Based Lyotropic Liquid Crystal Gels - The Interplay between Anisotropic Order & Gel Formation -</i> | Marek Bekir <i>Surface Sensitive Microparticle and Microplastic Filtration</i> | Maura Monduzzi <i>Thermosensitive polymers: Effect of electrolytes on the sol-gel phase transition of different aqueous mixtures based on Pluronic F127</i> |

Coffee Break

51st Conference of the German Colloid Society – Scientific Programme (preliminary)

| Sessions | Hydrogels | Theory and Modelling of Colloids and Interfaces | Responsive Colloids |
|-------------|--|--|---|
| 11.25-11.55 | Walter Richtering (Keynote) <i>What is "softness" of soft nanogels and nanogel assemblies?</i> | Peter Kosovan (Keynote) <i>Acid-base equilibria in macromolecular systems - simulations and experiments</i> | Eric Furst (Keynote) <i>Dissipative self-assembly of colloidal dispersions</i> |
| 11.55-12.25 | Rainer Haag (Keynote) <i>tbd</i> | Daniel Harries (Keynote) <i>tbd</i> | Lukas Zeininger (Keynote) <i>Chemically stimulated actuation and motion of active emulsion droplets</i> |
| 12.25-12.45 | Nicolas Vogel (Keynote) <i>Soft particles at interfaces: Connecting molecular structure, interfacial morphology and phase behaviour</i> | Yoav Tsori <i>Liquid nucleation around charged particles and electro-wetting phase lines</i> | Andrij Pich <i>Functional Microgels with Non-Covalent Crosslinks: Towards Soft Adaptive Colloidal Systems</i> |
| 12.45-13.05 | Thomas Hellweg <i>Responsive polyacrylamide based microgels studied by small angle neutron scattering</i> | Fabian Sobotta <i>Switchable polymerization-induced electrostatic self-assembly (PIESA)</i> | Agata Baryzewska <i>Dynamic Janus emulsions as foodborne pathogen sensors using stimuli-responsive surfactants</i> |
| 13.05-13.25 | Mahdis Hesami <i>Influence of organogel chemistry on gelation of perfume oil mixtures</i> | Ofer Manor <i>Revisiting the electroacoustic phenomenon in the presence of surface acoustic waves</i> | Dana Gilkman <i>Light-Responsive Arylazopyrazole Amphiphiles at Extended and Nanoscopic Oil-Water Interfaces</i> |

Closing Remarks