Scientific Program

PL: plenary lecture, SL: special lecture

October 9, 2017 (Monday)

Plenary Session (Lecture Hall HS1)

13:00 Welcome Address

13.30 PL1 ***Giant vesicles as multiresponsive microcompartments***
(Ostwald Award Lecture)
R. Lipowsky (Max-Planck-Institute of Colloids and Interfaces, Potsdam)

14:10 PL2 ***Multiresponsive star-shaped polymer-based nanocarriers***
C. Tsitsilianis (University of Patras, Greece)

Poster Session (Foyer)

14:50-16:50 A1-A17: ***Responsive systems.*** B1-B6: ***Polymer systems.***
C1-C13: ***Colloids and particles***. D1-D6: ***Foams.***

Oral Session (Lecture Hall HS1)

16:50 SL1 - ***pH- and salt responsive triblock-terpolymer micelles as building blocks for compartmentalized coatings***
I. Dewald, J. Gensel, A. H. E. Müller, D. V. Andreeva-Bäumler, E. V. Skorb, H. Möhwald, F. Schacher, A. Fery
(University of Bayreuth; Johannes Gutenberg Universität Mainz; Max-Planck Institut für Kolloid- und Grenzflächenforschung, Golm; Friedrich-Schiller-Universität, Jena; Leibniz-Institut für Polymerforschung Dresden e.V.)

17:10 SL2 - ***Structural characterization of hollow doubly-thermoresponsive microgels***
M. Brugnoni, A. Scotti, A. P. H. Gelissen, A. M. Stadler, A. Radulescu, W. Richtering
(RWTH Aachen University; Forschungszentrum Jülich; Jülich Centre for Neutron Science, Garching)

17:30 SL3 ***Thermophoresis of Janus particles near a thermosensitive surface: Impact of the LCST***
M. Heidari, R. von Klitzing (Technische Universität Darmstadt)

17:50-18:00 Break

Oral Session (Lecture Hall HS2)

16:50 SL4 ***Self-propelling microcapsules swimming at the surface of water: Synthesis, swarming behavior and the analysis of the swimming motion***
H. Rehage, A.-K. Froin, M. Pella (Technische Universität Dortmund)

17:10 SL5 ***Sedimentation and diffusion of "colloidal molecules"***
C. S. Plüisch, R. Stuckert, M. Schlegel, D. McDonogh, A. Wittemann (University of Konstanz)

17:30 SL6 ***Soft colloids - from tailor-made structure to tunable materials***
S. Gupta, M. Amann, J. Stellbrink, L.Willner, J. Allgaier, A. Radulescu, D. Richter (Forschungszentrum Jülich)

17:50-18:00 Break

Oral Session (Lecture Hall HS3)

16:50 SL7 ***The particle interface as important site of drug localization in colloidal lipid drug delivery systems***
K. Göke, E. Kupetz, H. Bunjes (Technische Universität Braunschweig)

17:10 SL8 ***Influence of blood proteins on a polymeric drug delivery system***
S. K. Filippov, X. Zhang, B.-J. Niebuur, P. Chytil, T. Etrych, A. Gruzinov, C. Blanchet, N. Velychkivska, L. Starovoytova, D. I. Svergun, C. M. Papadakis
(Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague; Technische Universität München; European Molecular Biology Laboratory, EMBL c/o DESY, Hamburg)

17:30 SL9 ***A Polymer topping for protein-coated NPs: Phase-transfer by multiple stimuli***
J. Schubert, C. Goldhahn, J. K. Ferri, M. Chanana
(Leibniz Institute of Polymer Research, Dresden; ETH Zürich, Switzerland; EMPA, Dübendorf, Switzerland; University of Bayreuth; Lafayette College, Easton Pennsylvania, USA)

17:50-18:00 Break

Plenary Session (Lecture Hall HS1)

18:00 PL3 ***Solid lipid nanoparticles - from the academic idea to the market***
(Steinkopff Award Lecture)
R. H. Müller (Free University of Berlin, Germany)

October 10, 2017 (Tuesday)

Plenary Session (Lecture Hall HS1)

09.00 PL4 ***Nanostructured and colloidal layer formation via spray coating***
S. V. Roth (Deutsches Elektronen-Synchrotron, Hamburg, Germany; KTH Royal Institute of Technology, Stockholm, Sweden)

09:40 PL5 ***Precision polymer network science with tetra-PEG gels*** *(Springer Lecture)*
M. Shibayama (The University of Tokyo, Japan)

Coffee break

10:20-10:50 Coffee break (Foyer)

Oral Session (Lecture Hall HS1)

10:50 SL10 ***On how to control pore shape, wall morphology, and finestructure of porous polymers***
A. Quell, W. Drenckhan, S. Heitkam, T. Sottmann, C. Stubenrauch (University of Stuttgart; L'Institut Charles Sadron, Université de Strasbourg, France; Technische Universität Dresden)

11:10 SL11 ***Polymer-functionalized pores - towards complex & multiresponsive porous films*** (Zsigmondy Award Lecture)
A. Andrieu-Brunsen (Technische Universität Darmstadt)

11:30 SL12 ***Networks of telechelic chains with capabilities for embedding magnetic particles***
H. Frielinghaus (Forschungszentrum Jülich)

11:50 SL13 ***Probe diffusion with gold nanoparticles in sol-gel transition systems***
X. Li, N. Watanabe, T. Sakai, M. Shibayama (University of Tokyo, Japan)

Oral Session (Lecture Hall HS2)

10:50 SL14 ***pH-dependent properties of weak polyampholyte networks: A Monte Carlo study***
C. Hofzumahaus, C. Strauch, S. Schneider (RWTH Aachen University)

11:10 SL15 ***Can we transfer the knowledge of salt specific effects on NIPAM to pNIPAM?***
J. Polak, V. Palivec, A. Kovalcik, P. Vrbka, D. Ondo, J. Heyda
(University of Chemistry and Technology, Prague, Czech Republic)

11:30 SL16 ***Soft but smart: Design of multi-responsive copolymers***
D. Mukherji, C. C. De Silva, P. Leophairatana, T. Ohkuma, M. D. Watson, M. Wagner, C. M. Marques, J. T. Koberstein, Kurt Kremer
(Max Planck Institute for Polymer Research, Mainz; Columbia University, New York, USA; Bridgestone Corporation, Tokyo, Japan; University of Kentucky, Lexington, USA; Institut Charles Sadron, Strasbourg, France)

11:50 SL17 ***Rational design of stimuli-responsive nanoreactors: insights from molecular dynamics simulations***
M. Kanduč, R. Chudoba, K. Palczynski, W. K. Kim, R. Roa, J. Dzubiella
(Helmholtz-Zentrum Berlin für Materialien und Energie; Humboldt-Universität zu Berlin)

Oral Session (Lecture Hall HS3)

10:50 SL18 ***Direct force measurements by AFM on the level of nanoparticles***
N. Helfricht, A. Mark, L. Dowling-Carter, A. Zambelli, G. Papastavrou
(University of Bayreuth; Bavarian Polymer Institute, Bayreuth; ETH Zürich, Switzerland)

11:10 SL19 ***Nanolithography with pinned micelles from grafted homopolymers***
M. Tebbe, E. Galati, G. Walker, E. Kumacheva
(University of Toronto, Ontario, Canada)

11:30 SL20 ***Size effects on particle diffusion in complex fluids as probed by Magnetic Particle Nanorheology***
M. Hermes, E. Roeben, A. M. Schmidt
(Universität zu Köln)

11:50 SL21 ***Isotropy/anisotropy imaging – a promising application of microscopic Mueller matrix ellipsometry***
P. H. Thiesen, C. Hoffmann, M. Duwe (Accurin GmbH, Göttingen)

Lunch break

12:10-13:10 Lunch break (Foyer)

Oral Session (Lecture Hall HS1)

13:10 SL22 ***The multifarious self-assembly of polyzwitterions: from multi-responsive biocompatible systems to schizophrenic amphiphiles***
A. Laschewsky, V. Hildebrand, P. Müller-Buschbaum, N. Nizardo, C.M. Papadakis, N. S. Vishnevetskaya
(University of Potsdam; Fraunhofer Institute for Applied Polymer Research IAP, Potsdam-Golm; Technische Universität München, Garching)

13:30 SL23 ***Interface-mediated self-assembly of multifunctional core-shell building blocks: Structural control and functional superstructures***
K. Volk, T. Honold, M. Karg
(Heinrich-Heine-University Düsseldorf; University of Bayreuth)

13:50 SL24 ***Thermosensitive microgels as "active" nanoreactors for tuning the catalytic activity of metal/metal oxide nanoparticles***
H. Jia, R. Roa, J. Dzubiella, M. Ballauff, Y. Lu
(Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin; University of Potsdam; Humboldt-Universität zu Berlin)

Oral Session (Lecture Hall HS2)

13:10 SL25 ***Investigation of surfactant vesicles at high and low concentrations by NMR***
C. Schmidt, F. Grewe, S. Eriksson, D. Topgaard, B. Medronho, U. Olsson, S. Kuczera,T. I. Brox, P. Galvosas
(Paderborn University; Lund University, Sweden; Victoria University, Wellington, New Zealand)

13:30 SL26 ***Lipid nanotube formation in giant vesicles***
R. Dimova (Max Planck Institute of Colloids and Interfaces, Potsdam)

13:50 SL27 ***Membrane dynamics in polyelectrolyte mediated multilamellar vesicles studied by neutron spin-echo spectroscopy***
I. Hoffmann, L. Chiappisi, M. Gradzielski
(Institut Laue-Langevin, Grenoble, France; Technische Universität Berlin)

Oral Session (Lecture Hall HS3)

13:10 SL28 ***Theory of self-assembly of hybrid linear-dendritic block copolymers***
O. V. Borisov, I. O. Lebedeva, E. B. Zhulina
(UMR 5254 CNRS UPPA, Pau, France; Institute of Macromolecular Compounds of the Russian Academy of Sciences, St. Petersburg, Russia; St. Petersburg National University of Information Technologies, Mechanics and Optics, Russia; The Peter the Great St. Petersburg State Polytechnic University, Russia)

13:30 SL29 ***Transitions between non-equilibrium micelles***
A. Steinschulte, N. Warren, F. Plamper
(RWTH Aachen University; University of Leeds, UK)

13:50 SL30 ***Structural control of polyelectrolyte/surfactant complexes (PESCs) with rather stiff biopolymers***
P. Buchold, L. Chiappisi, B. Dai, I. Hoffmann, R. Schweins, M. Ram-On, Y. Talmon, M. Gradzielski
(Technische Universität Berlin; Institut Laue-Langevin (ILL), Grenoble, France; Technion, Haifa, Israel)

Poster Session (Foyer)

14:10-16:10 E1-E15: **Surfaces and interfaces.** F1-F13: **Self-assembled systems** G1-G8: **Biomembranes.**

Plenary Session (Lecture Hall HS1)

16.10 PL6 ***Highly emissive silicon nanocrystals prepared via simultaneous etching and surface functionalization***
J. G. C. Veinot, Md H. Mobarok, M. A. Islam
(The University of Alberta, Edmonton, Alberta, Canada; Applied Quantum Materials Inc St. Albert, Alberta, Canada)

16:50 PL7 ***Swelling behaviour and mechanical properties of multiresponsive microgels at interfaces*** *(Liesegang Award Lecture)*
M. Witt, S. Backes, M. Lehmann, V. Miruchna, P. Krause, S. Wellert, R. von Klitzing
(Technische Universität Darmstadt; Technische Universität Berlin)

General assembly (HS 1)

17:30-18:30 **General assembly of the members of Kolloid-Gesellschaft**

Conference Dinner

20:00 **Bavarian Evening** (Augustinerkeller, München)

October 11, 2017 (Wednesday)

Plenary Session (Lecture Hall HS1)

09.00 PL8 ***Illuminating interfaces in soft matter by single-molecule localization microscopy***
I. K. Voets (University of Technology Eindhoven, The Netherlands)

09:40 PL9 ***Responsive and thermo-lockable hydrogels and nanogels***
X.-w. Zhang, F. Winnik (Université de Montréal, Canada)

Coffee Break

10:20-10:50 **Coffee break** (Foyer)

Oral Session (Lecture Hall HS1)

10:50 SL31 ***Photocatalytically active PDMS-coated-TiO_2 and its use in lubricant impregnated surfaces***
S. Wooh, N. Encinas, D. Vollmer, H.-J. Butt
(Max Planck Institute for Polymer Research, Mainz)

11:10 SL32 ***AOT-stabilized gold nanotriangles: Synthesis, purification, self-assembled monolayer formation and SERS monitoring***
J. Koetz, F. Liebig, R. M. Sarhan, M. Bargheer (Universität Potsdam)

11:30 SL33 ***Molecular simulation of membrane shape transformation and budding: Formation and stabilization of membrane necks by adsorbing particles***
R. Ghosh, A. Grafmüller, R. Lipowsky
(Max Planck Institute of Colloids and Interfaces, Potsdam)

11:50 SL34 ***Fluorescence microscopy investigation of microgels at interfaces***
E. Siemes, M. Faulde, A. Jupke, W. Richtering, D. Wöll
(RWTH Aachen University)

12:10-12:20 Break

Oral Session (Lecture Hall HS2)

10:50 SL35 ***Stimuli-responsive hybrid silica nanoparticles for controlled delivery***
A. S. Rodrigues, T. Ribeiro, C. Baleizão, J. P. Farinha
(Instituto Superior Técnico, Universidade de Lisboa, Portugal)

11:10 SL36 ***Multi-responsive non-NIPAM based microgels with core-shell structure***
M. Cors, J. Oberdisse, T. Hellweg
(Universität Bielefeld; Université de Montpellier, France)

11:30 SL37 ***Stimulus-responsive layers as culture substrate with novel functionality for human induced pluripotent stem cells***
S. Jiang, Y. Voss, S. Wenderhold-Reeb, H. Schönherr (University of Siegen)

11:50 SL38 ***Multi-responsive protein-polymer conjugates and their applications as membrane materials***
U. Glebe, H. Charan, A. Böker
(Fraunhofer Institute for Applied Polymer Research IAP, Potsdam-Golm; Universität Potsdam)

12:10-12:20 Break

Oral Session (Lecture Hall HS3)

10:50 SL39 ***Tuning the temperature-dependent thermal conductivity via complex colloidal superstructures***
F. Nutz, M. Retsch (University of Bayreuth)

11:10 SL40 ***Confinement-assisted assembly of nanoparticles into binary supraparticles***
T. Kister, T. Kraus (INM-Leibniz Institute for New Materials, Saarbrücken)

11:30 SL41 ***Correlation of phase behaviour with mesoscopic self-assembly in metal-extracting, water-poor microemulsions***
T. Lopian, S. Dourdain, W. Kunz, T. Zemb
(ICSM/LTSM/CEA, Bagnols sur Cèze, France; Universität Regensburg)

11:50 SL42 ***Corresponding state description of CO_2-microemulsion systems stabilized by a new fluorinated surfactant***
S. Lülsdorf, T. Sottmann, R. Schweins
(University of Stuttgart; Institut Laue Langevin, Grenoble, France)

12:10-12:20 Break

Plenary Session (Lecture Hall HS1)

12:20 PL10 ***Multiresponsive polymers: cross-talk between pH and temperature responsivity***
P. Štěpánek (Institute of Macromolecular Chemistry, Prague, Czech Republic)

13:10-13:30 Closing remarks

Visit of Heinz Maier-Leibnitz-Zentrum (special registration needed)

14:30 Guided tour
Meeting point: Main entry of FRM II on Campus Garching

List of Posters

Responsive systems

A1 - In-situ analysis of swelling and exchange kinetics in multi-stimuli responsive PNIPAM based block copolymers
Lucas Kreuzer, Tobias Widmann, Nuri Hohn, Kun Wang, Jean-Francois Moulin, Viet Hildebrand, André Laschewsky, Christine M. Papadakis, Peter Müller-Buschbaum (Technische Universität München; Helmholtz-Zentrum Geesthacht at Heinz Maier-Leibnitz Zentrum, Garching; Universität Potsdam)

A2 - The role of backbone hydration of poly(N-isopropyl acrylamide) across the LCST transition
Moritz Futscher, Martine Philipp, Peter Müller-Buschbaum, Alfons Schulte (Technische Universität München; University of Central Florida, Orlando, U.S.A.)

A3 - Influence of pressure on the aggregation behavior of poly(N-isopropylacrylamide) in aqueous solution
Bart-Jan Niebuur, Kora-Lee Claude, Simon Pinzek, Coleman Cariker, Konstantinos N. Raftopoulos, Vitaliy Pipich, Marie-Sousai Appavou, Alfons Schulte, Christine M. Papadakis
(Technische Universität München; University of Central Florida, Orlando, U.S.A.; Forschungszentrum Jülich GmbH, Outstation at MLZ, Garching)

A4 - Self-assembly and thermal response of Poly(2-isopropyl-2-oxazoline)-block-Poly(lactide) in aqueous solution
Fabian Pooch, Francoise Winnik, Heikki Tenhu (University of Helsinki, Finland)

A5 - Swelling and exchange kinetics in PNIPAM microgel thin films probed with in-situ neutron reflectometry
Tobias Widmann, Lucas Kreuzer, Nuri Hohn, Kun Wang, Lorenz Bießmann, Jean-Francois Moulin, Yvonne Hertle, Thomas Hellweg, Peter Müller-Buschbaum
(Technische Universität München; HZG at MLZ, Garching; Bielefeld University)

A6 - Core shell microgels in suspension: Swelling behavior as observed by FTIR spectroscopy
Lars Wiehemeier, Marian Cors, Oliver Wrede, Thomas Hellweg, Tilman Kottke (Bielefeld University)

A7 - Alternative acrylamides for microgel synthesis
Yvonne Hertle, Jörn Lessmeier, Johanna Glatthor, Lars Wiehemeier, Tilman Kottke, Sergej Kakorin, Thomas Hellweg (Bielefeld University)

A8 - Investigation of thermo-responsive microgels at liquid-liquid interfaces: Connection between microgels softness and monolayer properties
Steffen Bochenek, Walter Richtering (RWTH Aachen University)

A9 - Sortase-mediated surface functionalization of stimuli-responsive microgels
Elisabeth Gau, Diana M. Mate, Zhi Zou, Alex Oppermann, Alexander Töpel, Felix Jakob, Dominik Wöll, Ulrich Schwaneberg, Andrij Pich
(DWI - Leibniz Institute for Interactive Materials, Aachen; RWTH Aachen University; CSIC, Madrid, Spain)

A10 - Dynamics of the cononsolvency of poly-N-isopropylacrylamide microgels
Katja Nothdurft, Thorsten Brands, André Bardow, Walter Richtering
(RWTH Aachen University)

A11 - Hydrogel microgels: Powerful building blocks for functional nanomaterials
Claudia Pacholski (University of Potsdam)

A12 - Properties of water-in-oil microemulsions doped with thermo-responsive polymers: First investigations
K. Schneider, O. Wrede, T. Hellweg, R. Schweins, T. Sottmann
(University of Stuttgart; University of Bielefeld; Institut Laue-Langevin, Grenoble, France)

A13 - Innovative carbonate di-block polymers applied to nonionic microemulsions
Shih-Yu Tseng, Lena Kunze, Holger Frey, Thomas Sottmann
(University of Stuttgart; Johannes Gutenberg University, Mainz)

A14 - A self-consistent mean-field model for weak polyelectrolyte gels
Oleg Rud, Tobias Richter, Oleg Borisov, Christian Holm, Peter Košovan
(Charles University, Prague, Czech Republic; Institute of Macromolecular Compounds of Russian Academy of Sciences, Saint-Petersburg, Russia; University of Stuttgart; Institut des Sciences Analytiques et de Physico-Chimie pour l'Environnement et les Matériaux, UMR 5254 CNRS UPPA, Pau, France; Saint-Petersburg National University of Informational Technologies, Mechanics and Optics, Russia)

A15 - Thermo-responsive segments retard the formation of equilibrium micellar interpolyelectrolyte complexes
Claudia Dähling, Felix A. Plamper (RWTH Aachen University)

A16 - Multiresponsive hydrogels from telechelic polyelectrolytes
Chia-Hsin Ko, Margarita A. Dyakonova, Konstantinos N. Raftopoulos, Sandra Gkermpoura, M. M. Soledad Lencina, Maria Rikkou-Kalourkoti, Costas S. Patrickios, Constantinos Tsitsilianis, Christine M. Papadakis
(Technische Universität München; University of Patras, Greece; University of Cyprus, Nicosia, Cyprus)

A17 - Structural investigations on multi-responsive physical hydrogels
Florian Jung, Chia-Hsin Ko, Sandra Gkermpoura, M. M. Soledad Lencina, Maria Rikkou-Kalourkoti, Ralf Schweins, Costas S. Patrickios, Constantinos Tsitsilianis, Christine M. Papadakis
(Technical University of Munich;University of Patras, Greece; University of Cyprus, Nicosia, Cyprus; Institut Laue-Langevin, Grenoble, France)

Polymer systems

B1 - Intramolecular complexation in weakly interacting copolymers - influence of architecture and confinement
Pascal Hebbeker, Alexander A. Steinschulte, Felix A. Plamper, Stefanie Schneider
(RWTH Aachen University)

B2 - Fluorescent-labeled poly(methacrylic acid) and its interpolyelectrolyte complexes with poly-[3,5-bis(trimethylammoniummethyl)-4-hydroxystyrene iodide]-block-poly(ethylene oxide) in aqueous solution
Anastasiia Murmiliuk, Sergey K. Filippov, Miroslav Janata, Stergios Pispas, Miroslav Štěpánek
(Charles University, Prague, Czech Republic; Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic; Theoretical & Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece)

B3 - Electrochemical deposition of polyelectrolytes
Sabine Schneider, Olga Mergel, Felix A. Plamper (RWTH Aachen University)

B4 - Local pH and effective pK_A of weak polyelectrolytes: Insights from computer simulations
Lucie Nová, Filip Uhlík, Peter Košovan (Charles University, Prague, Czech Republic)

B5 - Investigation of an n-type conducting polymer for potential use in all-polymer thermoelectric generators
Regina M. Kluge, Nitin Saxena, Peter Müller-Buschbaum
(Technische Universität München)

B6 - RESEDA: Resonance spin echo spectrometer
Christian Franz, Olaf Soltwedel, Leonie Spitz, Christian Fuchs, Christian Pfleiderer
(Technische Universität München)

Colloids and particles

C1 - Use of Hansen parameters for characterization of dispersibility of carbon black
T. Sobisch, L. Rodriguez, S. Süß, D. Lerche, D. Segets, W. Peukert
(LUM GmbH, Berlin; FAU Erlangen-Nürnberg)

C2 - When is round round – A light scattering study
Werner Steffen, Maryam Haghighi, Veronika Beer, Lena Mammen, Markus Schmelzeisen
(Max Planck Institute for Polymer Research, Mainz)

C3 - Patchy silica particles via micro contact printing
Marc Zimmermann, Dmitry Grigoriev, Nikolay Puretskiy, Alexander Böker
(Fraunhofer Institute for Applied Polymer Research, Potsdam-Golm;
University of Potsdam)

C4 - Tailoring the volume phase transition behaviour of core-shell nanoparticles
Arne Lerch, Matthias Karg (Heinrich Heine University Düsseldorf)

C5 - Rational design of PS@PNIPAM-Ag core-shell nanoreactors with tunable activity for catalysis
Daniel Besold, Sebastian Risse, Yan Lu, Joachim Dzubiella, Matthias Ballauff
(Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin; Universität Potsdam; Humboldt-Universität zu Berlin)

C6 - Co_3O_4 nanoparticles for applications in oxygen electrocatalysis: Solution-based synthesis and formation mechanisms
Johannes Kießling, Anton Weißbach, Sabine Rosenfeldt, Anna Schenk
(University of Bayreuth)

C7 - Morphology control of low temperature synthesized ZnO/P3HT-b-PEO films via spray deposition
Kun Wang, Lorenz Bießmann, Matthias Schwartzkopf, Stephan V. Roth, Peter Müller-Buschbaum
(Technische Universität München; Deutsches Elektronen-Synchrotron DESY, Hamburg; KTH Royal Institute of Technology, Stockholm, Sweden)

C8 - Well-ordered magnetic thin films with large periods
Wei Cao, Senlin Xia, Peter Müller-Buschbaum (Technische Universität München)

C9 - Fabrication of titania films via combining block copolymer assisted sol-gel templating with printing
Nian Li, Bo Su, Senlin Xia, Peter Müller-Buschbaum (Technische Universität München)

C10 - "Colloidal molecules" with exciting perspectives
C.S. Plüisch, A. Wittemann (University of Konstanz)

C11 - Macromolecular HPMA-based nanoparticles with cholesterol for solid-tumor targeting: Behavior in HSA protein environment
Xiaohan Zhang, Bart-Jan Niebuur, Sergey K. Filippov, Petr Chytil, Tomas Etrych, Andrey Gruzinov, Florian Wieland, Dmitri I. Svergun, Christine M. Papadakis
(Technische Universität München; Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic; European Molecular Biology Laboratory, DESY, Hamburg)

C12 - Premix membrane emulsification for the preparation of colloidal lipid emulsions as drug delivery systems
Sandra Gehrmann, Heike Bunjes (TU Braunschweig)

C13 - Following slow dynamics of colloidal systems: J-NSE as the instrument of choice
Oxana Ivanova, Stefano Pasini, Michael Monkenbusch, Olaf Holderer
(Forschungszentrum Jülich GmbH, Garching/Jülich)

Foams

D1 - How to study the influence of the pore size distribution on solid foam mechanics
Sébastien Andrieux, Wiebke Drenckhan, Cosima Stubenrauch
(University of Stuttgart; Institut Charles Sadron, CNRS, Strasbourg, France)

D2 - Monodisperse polymer foams for tissue engineering
Miriam Dabrowski, Cosima Stubenrauch (University of Stuttgart)

D3 - Synthesis of nanoporous organic-inorganic hybrid materials with adjustable pore size
Y. Qawasmi, P. Atanasova, T. Jahnke, Z. Burghard, A. Müller, L. Grassberger, R. Strey, J. Bill, T. Sottmann (University of Stuttgart; University of Cologne)

D4 - Development of a sample environment for in-situ dynamic light scattering / diffusing wave spectroscopy in combination with small angle neutron scattering for the investigation of soft matter at the European Spallation Source
Andreas Josef Schmid, Sebastian Jaksch, Henrich Frielinghaus, Tobias Schrader, Harald Schneider, Thomas Hellweg
(Bielefeld University; Forschungszentrum Jülich GmbH, Garching; European Spallation Source ERIC, Lund, Sweden)

D5 - Development of a foam cell for SANS measurements
Matthias Kühnhammer, Regine von Klitzing (Technical University of Darmstadt)

D6 - Nano-glass as template for foaming
Sandra Teusch, Reinhard Strey, Annette M. Schmidt (Universität zu Köln)

Surfaces and Interfaces

E1 - Towards surface-bound microgels by a combination of lithography techniques
Laura Hoppe Alvarez, Alex Oppermann, Lars Schäfer, Sabine Eisold, Ulrich Simon, Dominik Wöll (RWTH Aachen University)

E2 - Quantifying the heterogeneous modulus of microgels adsorbed to an interface – Comparison of core-shell and hollow microgels
Marie Friederike Schulte, Ahmed Mourran, Walter Richtering
(RWTH Aachen University; DWI – Leibniz Institute for Interactive Materials e.V., Aachen)

E3 - Investigation of highly charged microgels at flat liquid-liquid interfaces
Maximilian Schmidt, Walter Richtering (RWTH Aachen University)

E4 - Microrheology of microgel layers at the water/oil interface
Shilin Huang, Kornelia Gawlitza, Regine von Klitzing, Günter K. Auernhammer
(Max Planck Institute for Polymer Research, Mainz; Sun Yat-sen University, Guangzhou, P. R. China; Technische Universität Berlin; BAM, Berlin; Technische Universität Darmstadt)

E5 - Ordered structures by capillary force self-assembly of microscale cubes at the air-water interface: Design principles and possible applications
Qimeng Song, Marc Steuber, Sergey Druzhinin, Holger Schönherr (University of Siegen)

E6 - Roughness correlation in PMMA polymer brushes – Conformal brushes
Marcus Hildebrandt, Jochen S. Gutmann
(University of Duisburg-Essen; DTNW, Krefeld)

E7 - Polyelectrolyte brushes and multilayer – Swelling behavior of a multi-compartment system
Oliver Löhmann, Samantha Micciulla, Olaf Soltwedel, Emanuel Schneck, Regine von Klitzing
(Technische Universität Darmstadt; Max Planck Institute of Colloids and Interfaces, Potsdam; Max Planck Institute for Solid Sate Research, Garching)

E8 - Aqueous polyelectrolyte/surfactant mixtures: Effect of salt on the adsorption behavior at the air/water interface investigated by neutron reflectometry
Larissa Braun, Richard Campbell, Martin Uhlig, Regine von Klitzing
(Technische Universität Darmstadt; Institut Laue-Langevin, Grenoble, France; Technische Universität Berlin)

E9 - Current applications of Imaging Ellipsometry and Brewster Angle Microscopy at the air/water interface
Peter H. Thiesen (Accurion GmbH, Göttingen)

E10 - Referenced Spectroscopic Ellipsometry – Very fast in situ and ex situ thickness measurements
Niklas Reineking, Peter H. Thiesen (Accurion GmbH, Göttingen)

E11 - Plasmonic resonances in responsive film-coupled nanoparticle arrays
Yannic Brasse, Mareen B. Müller, Matthias Karg, Tobias A. F. König, Andreas Fery
(Leibniz-Institut für Polymerforschung Dresden e.V.; University of Bayreuth; Heinrich-Heine-Universität Düsseldorf; Technische Universität Dresden)

E12 - Angular-dependent optical response of self-assembled plasmonic monolayers
Ekaterina Ponomareva, Kirsten Volk, Matthias Karg (Heinrich-Heine-University Düsseldorf)

E13 - In situ growth studies on highly charged cellulose nanofibril thin films
C. J. Brett, N. Mittal, W. Ohm, D. Söderberg, S. V. Roth
(KTH Royal Institute of Technology, Stockholm, Sweden; Deutsches Elektronen-Synchrotron (DESY), Hamburg)

E14 - The role of surface viscosity in the escape mechanism of the Stenus beetle
Alexander Dietz, Matthias Hofmann, Hubert Motschmann (University Regensburg)

E15 - Characterization of ferrocene-modified electrode using electrochemical surface forces apparatus
Motohiro Kasuya, Kazue Kurihara
(Institute of Multidisciplinary Research for Advanced Materials (IMRAM); Tohoku University, Sendai, Japan)

Self-assembled systems

F1 - Viscosity increase and control of N,N-dialkylamide extractants in presence of uranyl
Maximilian Pleines, Werner Kunz, Thomas Zemb
(Institute for Separative Chemistry Marcoule, Bagnols-sur-Cèze, France; University of Regensburg)

F2 - Proof of existence and impact of nanostructures on ternary biofuels
Damian Brock, Didier Touraud, Werner Kunz (University of Regensburg)

F3 - Green cationic surfactants based on carnitine
Katharina Häckl, Véronique Nardello-Rataj, Werner Kunz
(University of Regensburg; Univ. Lille, CNRS, Centrale Lille, ENSCL, Univ. Artois, Lille, France)

F4 - Using monodisperse vesicles as templates for silication
Sebastian Bayer, Katharina Bressel, Marie-Sousai Appavou, Peter Lindner, Michael Gradzielski
(Technische Universität Berlin; Forschungszentrum Jülich GmbH, Garching; Institut Laue-Langevin, Grenoble, France)

F5 - Mixing microemulsion droplets with polyelectrolytes: Complexes with a high solubilization capacity
Miriam Simon, Laurence Noirez, Ingo Hoffmann, Michael Gradzielski
(Technische Universität Berlin; Laboratoire Léon Brillouin, Saclay, France; Institut Laue-Langevin, Grenoble, France)

F6 - Shear-induced transformation of polymer-rich lamellar phases to micron sized vesicles investigated by small-angle scattering
Sören Großkopf, Miriam Siebenbürger , Yvonne Hertle, Oliver Wrede, Thomas Hellweg
(Bielefeld University; Helmholtz-Zentrum-Berlin)

F7 - Synthesis and assembly of responsive cobalt-polymer core shell nanoparticles
Li Tan, Bing Liu, Ulrich Glebe, Alexander Böker
(Fraunhofer Institute for Applied Polymer Research IAP, Potsdam-Golm; University of Potsdam; Institute of Chemistry Chinese Academy of Sciences, Beijing, China)

F8 - Halloysite nanotubes stabilized Pickering emulsions: Influence of concentration, salt, and pH
Dmitrij Stehl, Lena Hohl, Joachim Koetz, Yuri Lvov, Regine von Klitzing
(Technische Universität Darmstadt; Technische Universität Berlin; University of Potsdam; Louisiana Tech University, Ruston, USA)

F9 - Additives for CO_2 injection oil recovery processes: Enhancement of the miscibility of CO_2 and model crude oil
H. Bilgili, J. Fischer, L. Winkler, R. Rommerskirchen, P. Nijssen, T. Sottmann
(University of Stuttgart; Sasol Germany GmbH, Marl)

F10 - Self-assembly of low molecular weight gellants in presence of surfactants
Filiz Yapici, Peter Schmiedel, Wolfgang von Rybinski
(Heinrich-Heine-University, Düsserldorf; Henkel AG & Co. KGaA, Düsseldorf)

F11 - Interaction of end-modified PNIPAm with ionic surfactants
Anastasiia Fanova, Miroslav Štěpánek, Stergios Pispas, Mariusz Uchman, Sergey Filippov
(Charles University, Prague, Czech Republic; Theoretical & Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece; Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic)

F12 - Investigation of NiPAM interactions in aqueous solutions of sodium salts and its consequences for polyNiPAM
Jakub Polak, Vladimir Palivec, Adam Kovalcik, Pavel Vrbka, Daniel Ondo, Jan Heyda
(University of Chemistry and Technology, Prague, Czech Republic)

F13 - Gelled lyotropic liquid crystals: influence of two different organogelators on the phase boundaries
Katja Steck, Cosima Stubenrauch (University of Stuttgart)

Biomembranes

G1 - Influence of the Saponin Escin on small unilamellar DMPC-vesicles: An elastic and quasielastic scattering study
Carina Dargel, Ramsia Sreij, Aurel Radulescu, Stefano Pasini, Thomas Hellweg
(Bielefeld University; Jülich Center for Neutron Science, Garching)

G2 - Effect of membrane active drugs on the structure of lipid bilayers
M. Gvaramia, G. Mangiapia, H. Frielinghaus
(Jülich Center of Neutron Scattering*, Garching)*

G3 - Robustness of giant unilamellar vesicles with internal membrane nanotubes
Tripta Bhatia, Jaime Agudo-Canalejo, Rumiana Dimova, Reinhard Lipowsky
(Max Planck Institute of Colloids and Interfaces, Golm)

G4 - The role of ESCRT-III in membrane fission
Yunuen Avalos-Padilla, Roland L. Knorr, Reinhard Lipowsky, Rumiana Dimova
(Max Planck Institute of Colloids and Interfaces, Potsdam)

G5 - Membrane fluctuations drive cooperative binding of the "Marker of Self" signaling protein CD47 to SIRPα
Jan Steinkühler, Bartosz Różycki, Cory Alvey, Reinhard Lipowsky, Thomas R. Weikl, Rumiana Dimova, Dennis Discher
(Max Planck Institute of Colloids and Interfaces, Potsdam; Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; University of Pennsylvania, Philadelphia, PA, USA)

G6 - Membrane fusion: a novel mechanism for phagophore bending during autophagy
Jaime Agudo-Canalejo, Reinhard Lipowsky, Roland L. Knorr
(Max Planck Institute of Colloids and Interfaces, Potsdam)

G7 - Negative line tension of aqueous nanodroplets at lipid bilayers
Vahid Satarifard, Andrea Grafmueller, Reinhard Lipowsky
(Max Planck Institute of Colloids and Interfaces, Potsdam)

G8 - Generation of membrane curvature by lipids with bulky head groups
Aparna Sreekumari, Reinhard Lipowsky
(Max Planck Institute of Colloids and Interfaces, Potsdam)