

PROGRAM

THURSDAY, SEPTEMBER 26, 2019

8:30 - 9:00 Registration

9:00 - 9:10 Welcome (Alexander Kuehne)

Topic: SOFT AND SQUISHY

9:10 - 9:45 **Walter Richtering**, RWTH Aachen University
Keynote Lecture *Adaptive Microgels as versatile soft materials*

9:45 - 12:00 SESSION 1
Chair: Alexander Kuehne

9:45 - 10:00 **Peter R. Lang**, Forschungszentrum Jülich GmbH
EUSMI: Access to Top Level Infrastructure – Free of Charge

making

10:00 - 10:20 **Nicolas Hauck**, Leibniz Institute of Polymer Research Dresden
Processing of fast-gelling hydrogel systems in droplet microfluidics by picoinjection

10:20 - 10:40 **Timo Brändel**, Donostia International Physics Center, Spain
Tailor-Made Core-Shell Microgels: Tuning the Swelling Properties of Multi-Responsive Colloids by Copolymerization

assembling

10:40 - 11:00 **Sebastian Löscher**, Albert-Ludwigs University Freiburg
Supracolloidal Self-Assembly of Divalent Janus 3D DNA Origami via Programmable Multivalent Host-Guest Interactions

11:00 - 11:20 **Andrea Steinhaus**, University of Duisburg-Essen
Block Copolymers in 3D Confinement: Janus Structures with Complex Topology

11:20 - 11:40 **Werner A. Goedel**, Chemnitz University of Technology
Floatcasting of Bicontinuous Composite Membranes

sensing

11:40 - 12:00 **Emilia Izak-Nau**, DWI - Leibniz Institute for Interactive Materials e.V. Aachen
Mechanical properties of microgels

12:00 - 13:00 **LUNCHBREAK**

13:00 - 14:40 SESSION 2
Chair: Laura De Laporte

13:00 - 13:20 **Jessica Clough**, Wageningen University
High dynamic range, bio-inspired stress-sensing in polymeric materials

13:20 - 13:40 **Alberto Jiménez-Solano**, Max Planck Institute for Solid State Research, Stuttgart
Post-synthetic Tuning of Nanosheet-based Sensors by Reversible Vapor-phase Amine Intercalation

curing

13:40 - 14:00 **Daniel Klinger**, Freie Universität Berlin
A versatile synthetic platform for amphiphilic nanogels: tailoring network hydrophobicity to dermal delivery applications

14:00 - 14:20 **Laura De Laporte**, DWI - Leibniz Institute for Interactive Materials e.V. Aachen
Anisometric microgels as building blocks to direct tissue regeneration

14:20 - 14:40 **Lea Ann Dailey**, Martin-Luther-Universität Halle-Wittenberg
Pharmaceutical quality-by-design in a basic research setting: Stifling innovation or creativity through constraint?

14:40 - 15:00 **COFFEEBREAK**

Topic: HARD AND FUNCTIONAL

15:00 - 16:20 SESSION 3
Chair: Tobias Kraus

icles (nanoparticles and composites)

15:00 - 15:20 **Da Wang**, Electron Microscopy for Materials Science (EMAT)
When There Are More Possibilities: Self-assembled Supraparticles by Spherical Confinement

15:20 - 15:40 **Susanne Wintzheimer**, Julius-Maximilians-Universität Würzburg
Sinter-free calcination of nanoparticles via the formation of supraparticles

15:40 - 16:00 **Xufeng Xu**, Universität Konstanz
Binary colloidal nanoparticle assembly in a centrifugal field

16:00 - 16:20 **Alexander Eychmüller**, TU Dresden
Nanoparticle derived metal aerogels

16:20 - 16:40 **Georg Garnweitner**, Technische Universität Braunschweig
Multifunctional magnetic composites from blended nanoparticle building blocks

16:40 - 17:00 **Nicola Pinna**, Humboldt-Universität zu Berlin
Nonaqueous synthesis of Nb₂O₅@Carbon nanoparticles and nanospheres for high performance hybrid supercapacitors

17:00 - 18:30 **Bantleon** Poster Session



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20:00 **CONFERENCE DINNER**

FRIDAY, SEPTEMBER 27, 2019

9:00 - 10:20 **SESSION 4**
Chair: Doris Segets

tics (energy and catalysis)

9:00 - 9:20 **Tobias Kraus**, INM - Leibniz-Institute for New Materials
Interfaces in printed electrical conductors – towards molecular precision for optimal performance

9:20 - 9:40 **Shalmali Bapat**, University of Duisburg-Essen
Tailored electrocatalyst inks for high performance printed fuel cells

9:40 - 10:00 **Hans Hendrikse**, AMOLF
Bio-inspired Microshapes Converted to Functional Materials for Catalysis and Photovoltaics

10:00 - 10:20 **Kai Zhang**, Max Planck Institute for Polymer Research
Responsive photocatalytic polymer nanogels and nanoparticles

10:20 - 10:50 **COFFEEBREAK**

10:50 - 12:10 **SESSION 5**
Chair: Karl Mandel

10:50 - 11:10 **Andris Sutka**, Riga Technical University
Reversible and irreversible metal oxide nanoparticle photodoping

nics (photo, phono, plasm)

11:10 - 11:30 **Andreas Riedinger**, Max Planck Institut für Polymerforschung
Kinetically driven self-assembly of semiconductor nanoplatelets and their ultrafast photo conductivity

- 11:30 - 11:50 **Volker Strauss**, Max Planck Institute of Colloids and Interfaces
Carbon Nanodots: New Insights into Synthesis and Structure
- 11:50 - 12:10 **Thomas E. Kodger**, Wageningen University and Research
Photonic Paints
- 12:10 - 13:10 **LUNCHBREAK**
- 13:10 - 14:30 **SESSION 6**
Chair: Ulrich Ziener
- 13:10 - 13:30 **Matthias Karg**, Heinrich-Heine-University Düsseldorf
Surface lattice resonances in periodic, self-assembled plasmonic monolayers
- 13:30 - 13:50 **Eric S.A. Goerlitzer**, Friedrich-Alexander University Erlangen-Nürnberg
Site-specific functionalized plasmonics: a simple approach to guide particles & molecules
- 13:50 - 14:10 **Olha Aftenieva**, The Leibniz Institute for Polymer Research in Dresden
Analysis of periodic nanoparticle arrays with Fourier spectroscopy
- 14:10 - 14:30 **Ulrich Ziener**, Ulm University
Dye stabilized emulsions as powerful platform for silica nanoparticle syntheses
- 14:30 - 14:45 Closing remarks & Bantleon Poster Prizes (Alexander Kuehne)