**PROGRAM**

**THURSDAY, SEPTEMBER 26, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>8:30</td>
<td>Registration</td>
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<tr>
<td>9:00</td>
<td>Welcome (Alexander Kuehne)</td>
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<tr>
<td><strong>Topic: SOFT AND SQUISHY</strong></td>
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<td>9:10</td>
<td><strong>Keynote Lecture</strong></td>
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<td><strong>Walter Richtering</strong>, RWTH Aachen University</td>
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<td><em>Adaptive Microgels as versatile soft materials</em></td>
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<td>9:45</td>
<td><strong>SESSION 1</strong></td>
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<td>Chair: Alexander Kuehne</td>
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<td>9:45</td>
<td><strong>Peter R. Lang</strong>, Forschungszentrum Jülich GmbH</td>
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<td><em>EUSMI: Access to Top Level Infrastructure – Free of Charge</em></td>
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<td>10:00</td>
<td><strong>Nicolas Hauck</strong>, Leibniz Institute of Polymer Research Dresden</td>
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<td><em>Processing of fast-gelling hydrogel systems in droplet microfluidics by picoinjection</em></td>
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<td>10:20</td>
<td><strong>Timo Brändel</strong>, Donostia International Physics Center, Spain</td>
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<td><em>Tailor-Made Core-Shell Microgels: Tuning the Swelling Properties of Multi-Responsive Colloids by Copolymerization</em></td>
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<td>10:40</td>
<td><strong>Sebastian Löscher</strong>, Albert-Ludwigs University Freiburg</td>
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<td><em>Supracolloidal Self-Assembly of Divalent Janus 3D DNA Origami via Programmable Multivalent Host-Guest Interactions</em></td>
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<td>11:00</td>
<td><strong>Andrea Steinhaus</strong>, University of Duisburg-Essen</td>
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<td><em>Block Copolymers in 3D Confinement: Janus Structures with Complex Topology</em></td>
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<td>11:20</td>
<td><strong>Werner A. Goedel</strong>, Chemnitz University of Technology</td>
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<td><em>Floatcasting of Bicontinuous Composite Membranes</em></td>
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<td>11:40</td>
<td><strong>Emilia Izak-Nau</strong>, DWI - Leibniz Institute for Interactive Materials e.V. Aachen</td>
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<td><em>Mechanical properties of microgels</em></td>
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<td>12:00</td>
<td><strong>LUNCHBREAK</strong></td>
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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

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

ticles (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**

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

*nics (photo, phono, plasmo)*

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*

*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)