

Nachwuchsworkshop Hochschule der GDCh Fachgruppe Makromolekulare Chemie 10.3.2022, online

Session Chair: P. Théato

8:30 Short Introduction ALTANA
Dr. Christian Schaumberg – Head of Science Relations, ALTANA AG

8:45 Welcome
Prof. Dr. Patrick Théato – stellv. Fachgruppenvorsitzender
Dr. Joachim Simon – Fachgruppenvorsitzender

9:00 How polymer-based scaffold can be designed to meet the challenge of virus infection
Dr. Sumati Bhatia – Freie Universität Berlin
(20 min presentation + 10 min discussion)

9:30 Molecular Understanding of the Dynamics of Polymers across different Length Scales: Influence of Supramolecular Associations
Dr. Ana Brás Würschig – Universität zu Köln
(20 min presentation + 10 min discussion)

10:00 Seaweed Biopolymers
Dr. Aurelien Forget – Universität Freiburg
(20 min presentation + 10 min discussion)

10:30 Break

Session Chair: Ch. Schaumberg

11:00 Funktionale Polysaccharid-Biomaterialien – Von der modularen Synthese bis zum rationalen Materialdesign
Dr. Martin Gericke – Friedrich-Schiller-Universität Jena
(20 min presentation + 10 min discussion)

11:30 From force-reporting to force-resistant: using mechanochemistry to understand polymer materials
Dr. Robert Göstl – Leibniz-Institut für Interaktive Materialien
(20 min presentation + 10 min discussion)

12:00 Triblock Copolymers – Using Nanophase Separation to Achieve Low Modulus, Elastic Deformation and Good Mobility in Polymer Semiconductors
Dr. Franziska Lissel – Leibniz-Institut für Polymerforschung Dresden
(20 min presentation + 10 min discussion)

- 12:30 Lunch Break**
- 14:00 A more sustainable chemistry with elemental sulfur surplus: towards the design of novel chalcogen-rich polymers**
Dr. Hatice Mutlu – Karlsruher Institut für Technologie
(20 min presentation + 10 min discussion)
- 14:30 Supramolecular assemblies as mechanically robust and functional materials**
Dr. Stephen Schrettl – University of Fribourg
(20 min presentation + 10 min discussion)
- 15:00 Polymeric nanoparticles for drug delivery: Inspired by nature**
Dr. Stephanie Schubert – Friedrich-Schiller-Universität Jena
(20 min presentation + 10 min discussion)
- 15:30 Break**
- 16:00 Controlling Cell-Material Interactions through Responsive Supramolecular Assemblies**
Dr. Christopher Synatschke – Max-Planck-Institut für Polymerforschung
(20 min presentation + 10 min discussion)
- 16:30 Terpene-Based Biopolymers as Novel Functional Biomaterials - Synthesis, Analysis and Applications**
Dr. Malte Winnacker – Technische Universität München
(20 min presentation + 10 min discussion)
- 17:00 Autonomous regulation of chemical reactivity inside artificial stimuli-responsive complex soft colloids**
Dr. Lukas Zeininger – Max-Planck-Institut für Kolloid- und Grenzflächenforschung
(20 min presentation + 10 min discussion)
- 17:30 Synthetic Layered Silicates for Barrier Coatings**
Dr. Maximilian Böhmer – Innovation Management, BYK parallel: **Jury Session**
Fachgruppenvorstand
- 18:30 Awardee Announcement and Closing Words**
Prof. Dr. Patrick Théato
Dr. Joachim Simon
- 19:00 End**