

Program Polydays 2024

Functional Hydrogels: from Synthesis and Characterization towards Applications

September 30, 2024, Freie Universität Berlin, Arnimallee 22, Lecture Hall A

The lectures will be in English, Invited (25+5), Regular (15+5), Flash (3 min)

8:30 h Registration

9:00 h Welcome Address by Alexander Böker (BVP, IAP)

9:10 h Invited Lecture 1: Martina Delbianco (MPI-KG)

Supramolecular Glyco-Hydrogels

9:40 h Invited Lecture 2: Michael Gradzielski (TU Berlin)

Rheology of Self-Assembled Hydrogels – Dependence on the Intermolecular Interactions

10:10 h Coffee Break

10:30 h Regular Lecture 1 Joachim Storsberg (IAP)

Polymeric Hydrogels as Biomaterials for Potential Use in Therapeutic Contact Lenses

10:50 h Regular Lecture 2 Raju Bej (FU Berlin)

Dendronized and Supramolecular Polyelectrolytes as Mucus-mimetic Hydrogels

11:10 h Regular Lecture 3 Franziska Jehle (MPI-KG)

Snail Mucus – a Biopolymer with Multiple Functions

11:30 h 15 Poster Flash Presentations

12:15 h Lunch Break

13:15 h Invited Lecture 3: Johannes Brendel (Uni Bayreuth)

Supramolecular Polymer Bottlebrush Hydrogels for Biological Applications

13:45 h Regular Lecture 4 Svetlana Santer (Uni Potsdam)

Tuning the Volume Phase Transition Temperature of Microgels by Light

14:05 h Regular Lecture 5 Andreas Thünemann (BAM)

Structure Analysis of Functional Hydrogels with Small-Angle X-ray Scattering (SAXS)

14:25 h Invited Lecture 4: André Laschewsky (IAP)

Zwitterionic Hydrogels as Bioinert Coatings. Facts and Fancy

14:55 h Invited Lecture 5: Mohiuddin Quadir (NDSU)

Coatings for Optimized Functions – ‘Captive Gels’ and their Applications in therapeutics

15:25 h Poster Session and Coffee Break

17:00 h **25 Years Polymer Science Master Program**

18:00 h Polymer Science Reception