



UNIVERSITÄT
BAYREUTH



BPI
Bayerisches Polymerinstitut

Elitenetzwerk
Bayern



Advanced Module M059

101 Years of Macromolecular Chemistry

Part I. Seminar with students' contributions

Thursday, September 09, 2021, University of Bayreuth

Part II. Visit of the Key Lab Facilities of the Bavarian Polymer Institute

Thursday, September 09, 2021, University of Bayreuth

Part III. Online Conference „101 Years Macromolecular Chemistry“

Monday and Tuesday, September 13-14, 2021, Freiburg (online)

Module Coordination

Prof. Hans-Werner Schmidt and Dr. Klaus Kreger

Summer term 2021

The field of macromolecular science dates back to the pioneering work of Hermann Staudinger in the early 1920s, and last year macromolecular science celebrated its 100th anniversary. During this century, researchers established an in-depth understanding on polymer synthesis, their behavior in solution and in bulk and the processing of polymers. Owing to the exceptional properties of polymer materials, they now play a key role in our modern lives and contribute significantly to the quality, comfort, safety and health of global society. Despite the continuous growth rate of polymer materials and the numerous key developments in polymer science, future demands require to address issues related to recycling, renewability and waste reduction. Consequently, the conference “*101 Years of Macromolecular Chemistry*” will focus on the future of polymer science dealing with present challenges and enabling future solutions. This includes the areas of (i) polymer synthesis and modification, (ii) polymer physics and characterization, (iii) Industrial polymers and polymer materials, (iv) functional polymers and polymer devices with tailor-made properties and (v) new developments in the field of polymers.

This advanced module consists of three elements: (i) a seminar with students’ contributions, (ii) the online conference *101 Years Macromolecular Chemistry* and (iii) a visit of the Key Lab Facilities of the Bavarian Polymer Institute.

Part I: Seminar with students’ contributions

Thursday, September 09, 2021, 10 am, H 16, Building NW II

To prepare for the conference *101 Years Macromolecular Chemistry* in 2021, each participating student will select one conference speaker and will prepare a short presentation **(20 minutes + 5 minutes discussion)**. Talks and discussions will be held in English. The presentation should introduce the speaker in the following manner:

- 1) Curriculum vitae
- 2) University and department
- 3) Research activities
- 4) Most cited paper(s)
- 5) Presentation of one or two recent papers

The seminar includes a presentation of one of the organizers of the conference *101 Years Macromolecular Chemistry* to give insight in the organization of an international conference.

10.00 – 10.25	Ben Feringa (Resume and Nobel prize lecture)	<i>Nadine Raßmann</i>
10.25 – 10.50	Krzysztof Matyjaszewski	<i>Marius Schöttle</i>
10.50 – 11.00	Coffee Break	
11.00 – 11.25	Klaus Müllen	<i>Jonas Schwan</i>
11.25 – 11.50	Zhenan Bao	<i>Isabel Erhard</i>
11.50 – 12.30	Lunch	
12.30 – 12.55	Takuzo Aida	<i>Volodymyr Dudko</i>
12.55 – 13.20	Katharina Landfester	<i>Thomas Tran</i>
13.20 – 13.30	Coffee Break	
13.30 – 13.55	Rolf Mülhaupt	<i>Gert Krauss</i>
13.55 – 14.20	Jean-Marie Lehn	<i>Dennis Schröder</i>

Part II. Visit of the Key Lab Facilities of the Bavarian Polymer Institute

Thursday, September 09, 2021, 2.30 pm, PNS Building

The students will have the opportunity to visit research facilities of the Bavarian Polymer Institute.

Part III: Online Conference „101 Years Macromolecular Chemistry”

September 13-14, 2021, Online (Freiburg)

The students have to attend at the Online Conference *101 Years Macromolecular Chemistry* 2021. The conference starts on Monday, September 13th at 2 pm and ends on Tuesday, September 14th at 1 pm.