



Modern Advances in Polymer Science

June 10 - 11, 2017

Chairs

Jared D. Harris and Benjamin R. Elling

Mount Holyoke College

50 College Street
South Hadley, MA, US

Conference Description

The Polymers Gordon Research Seminar (GRS) provides a unique opportunity for graduate students, post-doctoral researchers, and other scientists with comparable levels of experience to congregate to present and discuss high quality research focused on the synthesis, characterization, and application of polymeric materials. The meeting (June 10-11) will directly precede the Polymers Gordon Research Conference (June 11-16) on the campus of Mt. Holyoke College in South Hadley, Massachusetts, USA. Those applying to the GRS are strongly encouraged to submit an additional application to the Polymers GRC.

The seminar will include poster sessions and a select number of oral presentations on modern advances in polymer research. Submissions on topics such as drug delivery strategies, precision synthesis, materials for energy applications, sustainably sourced materials, novel characterization techniques, designed surfaces and interfaces, and self-healing materials are encouraged. The GRS will also provide opportunities for career development through presentations from invited speakers working in various fields as well as time for networking.

Related Meeting



This GRS will be held in conjunction with the "Polymers" Gordon Research Conference (GRC). Those interested in attending both meetings must submit an application for the GRC in addition to an application for the GRS. Refer to the [associated GRC program page](#) for more information.

Conference Program



Saturday

2:00 pm - 5:00 pm	Arrival and Check-in
3:30 pm - 3:45 pm	Introductory Comments by GRC Site Staff / Welcome from the GRS Chair
3:45 pm - 4:30 pm	Keynote Session: Strategies of Successful Scientists Discussion Leader: Aaron Teator (University of North Carolina at Chapel Hill, USA)
3:45 pm - 4:20 pm	David Tirrell (California Institute of Technology, USA) "Strategies of Successful Scientists"
4:20 pm - 4:30 pm	Discussion
4:30 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:30 pm - 9:30 pm	Syntheses for Next Generation Materials Discussion Leader: Rachel Letteri (Texas A&M University, USA)
7:30 pm - 7:50 pm	Anne Fuhrmann (Humboldt University of Berlin, Germany) "Switching the Healing Capability of Dynamic Covalent Polymers ON and OFF with Light – New Designs with Improved Healing Capability"
7:50 pm - 8:00 pm	Discussion
8:00 pm - 8:20 pm	Megan Hill (University of Florida, USA) "Synthesis of Alternating and Degradable Copolymers by Radical Polymerization"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 8:50 pm	Joel Sarapas (National Institute of Standards and Technology, USA) "Thiol-ene Step Growth as a Versatile Route to Functional Polymers and Networks"
8:50 pm - 9:00 pm	Discussion

9:00 pm - 9:20 pm	Aleksandr Zhukhovitskiy (University of California, Berkeley, USA) "Addressing Challenges in the Way of Gold-Catalyzed Coordination Polymerization"
9:20 pm - 9:30 pm	Discussion
Sunday	
7:30 am - 8:30 am	Breakfast
9:00 am - 11:00 am	Intelligent Material Design Discussion Leader: Symone Alexander (Case Western Reserve University, USA)
9:00 am - 9:20 am	Spencer Brucks (Columbia University, USA) "Modular Nanoparticles for Live-Cell Imaging by Stimulated Raman Scattering"
9:20 am - 9:30 am	Discussion
9:30 am - 9:50 am	Jacob Brutman (University of Minnesota, USA) "Renewable, Degradable, and Chemically Recyclable Cross-Linked Elastomers"
9:50 am - 10:00 am	Discussion
10:00 am - 10:20 am	Abigail Knight (University of California, Santa Barbara, USA) "Metal-Directed Self Assembly of Bioinspired Amphiphiles"
10:20 am - 10:30 am	Discussion
10:30 am - 10:50 am	Colin McKinlay (Stanford University, USA) "Charge-Altering Releasable Transporters (CARTs) for the Delivery and Release of Messenger RNA"
10:50 am - 11:00 am	Discussion
11:00 am - 12:30 pm	Poster Session <i>Coffee will be served in the poster area from 11:00 am - 11:30 am</i>
12:30 pm - 1:30 pm	Lunch

1:30 pm - 2:30 pm	Mentorship Component: Careers in Polymer Science Discussion Leader: Andrea Carlini (University of California, San Diego, USA)
1:30 pm - 1:50 pm	Yutan Getzler (Kenyon College, USA) "An Academic Career at Primarily Undergraduate Institutions"
1:50 pm - 2:00 pm	Discussion
2:00 pm - 2:20 pm	Samantha Page (Cantor Colburn LLP, USA) "A Career in Patent Law"
2:20 pm - 2:30 pm	Discussion
2:30 pm - 3:00 pm	Evaluation Period <i>Fill in GRS Evaluation Forms</i>
3:00 pm	Seminar Concludes

Contributors

	
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