



Center for Integrated Catalysis Webinar Series



Prof. Jeffery Byers

Department of Chemistry
Boston College

“Controlling Sequence in Polymerization Reactions”

Abstract: Controlling bulk properties of polymers by altering their primary chemical structure has been a longstanding paradigm in polymer science. Altering the primary chemical structure of a polymer either through incorporating different monomers, altering the stereoregularity of chiral repeat units in the polymer, or controlling polymer molecular weight and molecular weight distribution constitute ways to control sequence in a polymerization reaction. These factors also alter the physical and mechanical properties of polymers. In this interactive webinar, we will investigate the creative ways that have enabled chemists to control polymer sequence and how this capability have led to new materials with useful properties. The focus will be on synthetic polymers although many techniques used to control polymer sequence have been inspired by biological systems, which routinely produce macromolecules with precise sequence control.

[Click here to
receive Zoom
details](#)

Tuesday, January 19th, 2021

1:00 p.m. | ZOOM