Project Title: Fiber spinning of cPolyphthalaldehyde
Advisors: Hector Lopez (5th year PhD student in MechSE), Prof. Scott R. White (AE)
Project Description:
cPolyphthalaldehyde (cPPA) is a metastable polymer with interesting degradation properties. The polymer is stable in ambient conditions but can be triggered to depolymerize in response to a specific input signal or stimuli. This phenomena is used to create material systems that physically disappear such as transient electronics and sacrificial templates. This project involves the synthesis, dry fiber spinning, and mechanical testing of cPPA fibers. As an undergraduate student you will be tasked with developing a dry fiber spinning setup, processing cPPA into fibers, and mechanically testing the fibers to find relevant material properties.

Student background and expected research activities:
We are seeking an individual that is interested in the general characterization of novel polymers. This includes interest in polymer science and synthesis. Experience in a laboratory is preferred, but not required. The student should be willing to use equipment for mechanical testing and comfortable working in a wet lab.

Points of Contact:
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