

# Magnetorheological Soft Materials for Mechanobiology

Monday, June 10, 2019

12:00 PM - 4:00 PM

Laboratory for Research on the Structure of Matter

***Reading Room***

3231 Walnut Street, Philadelphia, PA

12:00-12:45

Lunch

12:45-1:00

**Welcome and introduction**

1:00-1:30

**Elise Corbin**, University of Delaware and

**Alexia Vite**, UPenn

*Mechanosensitivity of cardiomyocytes using dynamic microenvironments*

1:30-1:45

**Alexander Bennett**, UPenn

*Contact Mechanics and Tribology of Magnetorheological Materials*

1:45-2:00

**Andy Clark**, Bryn Mawr College

*Magnetic Characterization of Magnetorheological Elastomers*

2:00-2:30

Break

2:30-3:00

**Emile Kraus**, UPenn

*Field, Shear, and Normal Response of Magnetoactive Gel*

3:00 – 4:00

**Andrejs Cēbers**, University of Latvia

*Magnetostriction of ferrogels*