



**Western University**  
**DEPARTMENT OF PHYSICS AND ASTRONOMY**

## **PHYSICS & ASTRONOMY COLLOQUIUM**

**Date:** **Thursday, 10<sup>th</sup> November 2016**  
**Time:** **1:30 p.m.**  
**Location:** **Physics & Astronomy Seminar Room 100**

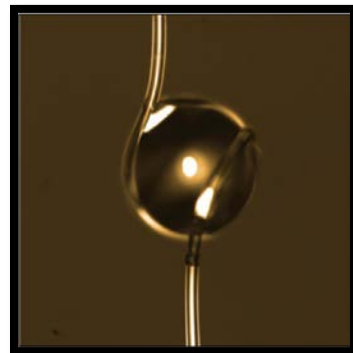
### **Dr. Kari Dalnoki-Veress**

Department of Physics and Astronomy  
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### ***“Soft materials at surfaces and interfaces: Elastocapillarity”***

#### **ABSTRACT**

The physics of soft materials is distinct from hard matter as the weaker intermolecular bonds can result in a large response to external stresses. In recent years, there has been a significant interest in understanding the interaction between a liquid's surface tension and a solid's elasticity: elastocapillarity. In particular, liquids can generate significant deformations of highly compliant materials. These elastocapillary interactions are highly relevant in a wide variety of systems including capillary origami and folding, soft tissues, wetting of fibres and hair, and micro-patterning of soft surfaces. In this talk I will summarize our recent work on the capillary interactions of liquid droplets with elastic surfaces.



***COFFEE + light snacks will be available in the Atrium, 2nd floor, at 1:15 p.m.***