

# Polymer Surface & Interface Group

Department of Physics, University of Guelph

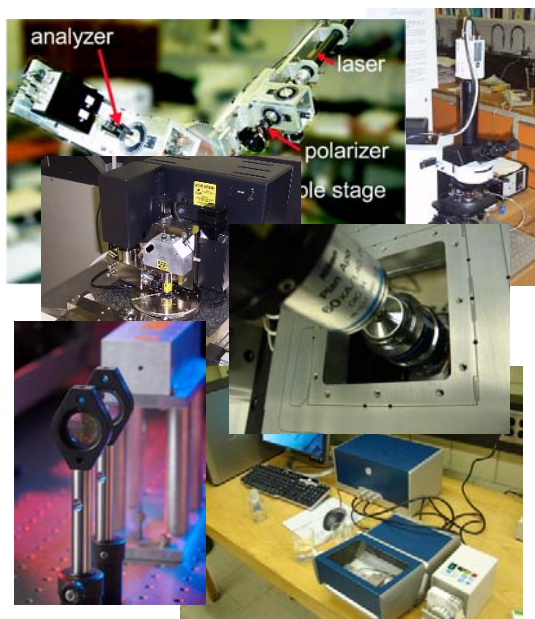
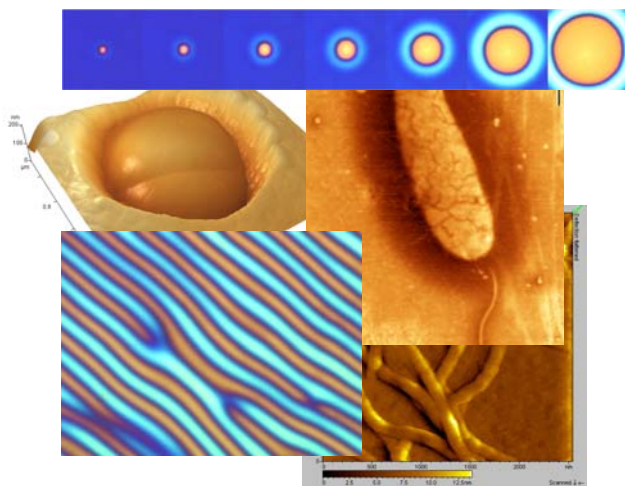


*studying the physics of polymers, biopolymers & bacterial cells at surfaces & interfaces*

We use a wide range of state-of-the-art, surface-sensitive nanoscience tools in newly renovated laboratories to study polymers, biopolymers and bacterial cells at surfaces and interfaces. Our goal is to achieve a fundamental understanding of these systems which have direct industrial applications such as remediation of bacterial contamination of surfaces, delivery of bioactive compounds, development of novel biosensors, and improvements on the efficiency of producing ethanol from cellulose.

## Current Research Projects

- Bacterial adhesion & biofilms
- Proteins & peptides at surfaces
- Enzymatic degradation of biopolymers
- Delivery of bioactive compounds



## Equipment & Facilities

- Advanced sample preparation
- Comprehensive range of surface-sensitive nanotools

[www.physics.uoguelph.ca/psi](http://www.physics.uoguelph.ca/psi)

## Grad Student Opportunities

- Challenging projects in an emerging research area
- Interdisciplinary research
- Interaction with industry



## Contact

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