



BIOPHYSICS SOCIAL HOUR

A tour through the Etson lab!

Investigation of biological systems through single molecule imaging and spectroscopy techniques

In our lab we do research in the field of single-molecule biophysics. In the study of biological molecules in bulk, averaging makes it difficult to resolve short-lived intermediate states. One way to get more information is to study biological processes using single-molecule approaches. To study molecular mechanisms we will use an advanced imaging technology called total internal reflection (TIR) fluorescence microscopy. We will tag proteins and DNA molecules with fluorescent molecules so that we can collect single-pair Forster Resonance Energy Transfer (FRET) measurements as the proteins bind to the DNA. By directly observing these processes, we can uncover more information about the conformational distributions and dynamics of biological molecules.



Sponsored by the
Weslevan Biophysics Program

Join us to learn
about the various
biophysical
techniques used at
Wesleyan.

Learn how single
molecule imaging
and spectroscopy
are used in
biophysical
research.

Come see what the
Etson lab does in
their daily
research.

Refreshments to
follow!

EXLEY ROOM 12

Etson Lab

February 3, 2016

5:15pm-6:30pm