

**Department of Mathematics
Clarkson University**

Colloquium

John Dallon

Brigham Young University

will speak on

“Modeling Mesenchymal Cell Motion – Force, Speed and the Role of Focal Adhesion Lifetimes”

Abstract: In this talk I will discuss a stochastic model of cell motion. The model makes no assumption about cell shape and focuses on cell adhesions. Random switching terms are used to model the attachment and detachment of focal adhesions. Using the model I will investigate how force and focal adhesion dynamics affect the motion of the cell. I will conclude with an analysis of what controls the focal adhesion lifetimes.

Monday, January 24, 2022

12:00pm

Zoom Link:

<https://clarkson.zoom.us/j/96294168063?pwd=SDIZWjZtNzZ0U1YwOFFqYU5OdVc2Zz09>