

## FCI Faculty Fellow Seminar

Thursday, January 21, 2016 @ 3:30pm

100 Williamson Hall, Bless Auditorium



### **Dr. Andrea Dutton**

Assistant Professor, Department of  
Geological Sciences

**Title:** What the past can teach us about sea-level rise due to polar ice-sheet mass loss

**Abstract:** Over the past century, sea-level rise has mostly been driven by thermal expansion of seawater and melting of mountain glaciers. However, mass loss from the Greenland and Antarctic ice sheets are playing an increasingly important role and are expected to exceed other contributions to rising sea levels in the coming century. To better understand the sensitivity of polar ice sheets to rising temperatures and to determine the potential rates of sea-level rise associated with ice-sheet retreat in Greenland and Antarctica, I will draw on evidence from past warm periods in the geologic record when sea level was higher than present. Coastal records of past sea level express a geographic variability due to the influence of several geophysical processes. Hence, inferring global mean sea level and ice volume changes from these reconstructions generally requires the use of geophysical models.

Attend live or watch:

<https://mediasite.video.ufl.edu/Mediasite/Play/b3abbd2f3e1f49f98f37abf3c1df1b3d1d>