

# Department of Mathematics

## *Fall 2015 Colloquium Series*



## ***Tsunami Wave Propagation Over Underwater Obstacles***

**Dr. Sergei Fomin,  
Professor of Mathematics and Statistics  
California State University, Chico**

**Tuesday, September 8, 2015**

**Behavioral and Social Sciences Building Room 166, 4 p.m.**

Seismic sea waves, better known as tsunami waves, have destructively impacted human life, infrastructure and coastal environments for time immemorial. Dynamics of a tsunami wave is greatly affected by sea-floor topography. Solitary wave propagation over underwater shelves and bumps is examined using straightforward analytical methods.

Areas of practical application include coastal defense against tsunami inundation, harbor protection and erosion prevention with submerged breakwaters, and the construction and design of artificial reefs to use for recreational surfing.

*Sergei Fomin is Professor of the Mathematics and Statistics at California State University at Chico.*

*For a complete abstract, go to <http://www.humboldt.edu/math/news-and-events/math-colloquium>*

***We invite you to the Pre-colloquium Tea on the third floor of the BSS  
building at 3:30 on Tuesday.***