

CALIFORNIA STATE UNIVERSITY, LONG BEACH

# THE MATHEMATICS COLLOQUIUM

presents

**Gary Brookfield**

California State University, Los Angeles

speaking on

**Bubble Math**

**Friday, November 3, 2006**

**12:00PM-1:00PM**

**FO3 -200A**

**Abstract:** Bubbles can do really hard math! Soap films always try to minimize their surface areas. In doing so, they can "solve" some really interesting geometry problems - problems that are too hard for mathematicians. In this talk, I will demonstrate what bubbles can do and discuss what mathematicians have been able to prove about bubbles so far. Also on the agenda are square bubbles, bubbles-inside-bubbles, double bubbles, weird foam, and more.