



# **MSRI/Evans Talk**

MONDAY, MARCH 28, 2011

4:10PM; 60 EVANS HALL

UNIVERSITY OF CALIFORNIA, BERKELEY

## **“LINEARIZATION TECHNIQUES IN FREE BOUNDARY PROBLEMS”**

**Dr. John Andersson  
(University of Warwick )**

In this talk I will try to describe the general ideas behind linearization, energy decay and flatness improvement. These ideas have proven to be very powerful tools in analyzing the regularity of nonlinear partial differential equations and systems of equations. They also provide regularity of free boundaries.

We will start the seminar by describing what we mean by regularity theory and a very general criteria that implies regularity. We will then show how that criteria naturally fits into linearization of free boundaries.

**Refreshments at a nearby establishment immediately following the talk!  
Graduate students and Postdoctoral Fellows are particularly welcome.**

**<http://www.msri.org>**