

CALIFORNIA STATE UNIVERSITY, LONG BEACH

# THE MATHEMATICS COLLOQUIUM

presents

## **Borislava Gutarts**

California State University, Los Angeles

speaking on

### **Inverse Problems in PDEs**

*An alternative proof of the Nachman's global uniqueness result for a 2-dimensional inverse boundary value problem in anisotropic media*

**Friday, October 13, 2006**

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

**FO3-200A**

**Abstract:** This talk will include a brief introduction to the field of Inverse Problems. Some basic definitions and applications to the modern medicine and sciences will be outlined. A short overview of the known uniqueness results for the inverse problems will be presented, as well as an explanation of why the 2-dimensional problems are the hardest to solve, as compared to the higher dimensions. Finally, an outline and methods used in the new proof of the Nachman's result will be presented.