

TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

Irina Mitrea

Institute for Mathematics and its Applications, University of
Minnesota

will speak on

**Harmonic Analysis, Geometric Measure Theory and
Applications**

ABSTRACT: In this talk I will overview how techniques and methods rooted in Harmonic Analysis and Geometric Measure Theory impact other mathematical fields such as Several Complex Variables, Scattering Theory, and Elliptic Partial Differential Equations, some of which have traditionally evolved on fairly distinct tracks. More specifically the talk will focus on the fairly sophisticated mathematical theory at the interface between Harmonic Analysis and Geometric Measure Theory that one needs to develop in the effort to relax smoothness assumptions under which results from the aforementioned fields hold.

WEDNESDAY, 19 JANUARY 2011

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:30-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS