

COLLOQUIUM

University of Notre Dame

Department of Mathematics

Carolyn Gordon

Dartmouth College

Will give a lecture entitled

Audible and inaudible geometry of manifolds

On

Friday, April 5, 2013

at 4:15 PM in Room 129 Hayes-Healy Hall

Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

Abstract:

Inverse spectral problems ask how much information about an object is encoded in spectral data. In the setting of Riemannian manifolds, spectral data are provided by the eigenvalues of the associated Laplacian. We will consider methods for constructing Riemannian manifolds with the same eigenvalue spectrum and compare their geometry. We will also refer to related constructions on discrete and quantum graphs.