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**Speaker:** Dionyssi Mantzavinos  
University of Notre Dame

Tuesday, October 1, 2013  
11:00 AM  
258 Hurley Hall

**Title:** Initial-Boundary Value Problems for Integrable Evolution Equations

**Abstract:**

Although a plethora of important results and groundbreaking techniques have been presented concerning the initial value (Cauchy) problem for evolution equations, until fairly recently no analogous progress had been made in the direction of initial-boundary value problems for these equations. In this talk, we will discuss the application of a novel method for obtaining explicit solution formulas to linear boundary value problems by allowing the spectral space parameter to reside in the complex plane. These formulas can then be employed for well-posedness considerations of these problems as well as their nonlinear counterparts.