

COLLOQUIUM

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**“ A stochastic Lagrangian approach to the
Navier-Stokes equations ”**

Wednesday, April 9, 2008

4:10—5:00pm

Surge 284

Tea Time is at 3:40 pm in the Faculty Lounge

ABSTRACT: I will begin by briefly motivating, and surveying a few well established stochastic methods which are used in connection with the Navier-Stokes equations. I will then focus on a more recent approach, which derives an exact formulation of the 3-dimensional Navier-Stokes equations based on noisy particle paths. I will discuss applications of this formulation, and connections with a turbulence model of Rozovskii and Mikulevicius.