

WICHITA STATE UNIVERSITY

Department of Mathematics and Statistics

*The Lecture Series in the
Mathematical Sciences Presents Our Guest:*

Prof. Darren Crowdy

Imperial College London & MIT

“Vortex motion in complex domains:
new theoretical perspectives”

Abstract:

The problem of how vortices evolve in geometrically complex domains (bounded by impenetrable walls) is a basic problem in theoretical fluid dynamics. Compared to vortex motion in unbounded domains, until recently, very little was known about this problem. This talk will demonstrate that it is possible to formulate a fairly complete analytical theory for this class of problems using elements of classical function theory. The motion of both point vortices and vortex patches will be considered and numerous examples given.

Friday, December 1, 2006
3:00 PM in 372 Jabara Hall

*Please come join us for refreshments before the lecture
at 2:30 p.m. in room 353 Jabara Hall.*