

MATHEMATICS DEPARTMENT
North Carolina State University

**JOINT DIFFERENTIAL EQUATIONS /
PROBABILITY SEMINAR**

Wednesday, May 3, 2006
1:30 p.m. 330 Harrelson Hall

Hyung Ju Hwang

School of Mathematics
Trinity College (Ireland)

**“Hyperbolic models for chemosensitive
movement in interacting cell systems”**

In the talk, we present hyperbolic models of interacting cell systems. The models describe chemotactic cell movement driven by a diffusive external signal. Macroscopic behavior in biological systems can be explained in terms of microscopic parameters of the hyperbolic models. The issue of global existence is also discussed. The talk will begin with some illustrative examples of connection from individual to collective cell behavior.

**Graduate students are invited to attend.
Please note the unusual time.**

For questions, comments, and offers to talk, contact Steve Schechter, schechter@math.ncsu.edu.
Please visit the DE Seminar web page at www.math.ncsu.edu/seminars.html.