



2012 - 2013



**MATHEMATICS COLLOQUIUM SERIES
UNIVERSITY OF CENTRAL FLORIDA**

**Dr. Pauline van den Driessche
Department of Mathematics and Statistics
University of Victoria, Canada**

will speak on

Sign Pattern Matrices and Dynamical Systems

Abstract: The key players in this talk are sign pattern matrices. Some of their spectral properties are described from the perspectives of combinatorial matrix analysis including their associated signed digraphs. Results on these sign patterns are used in applications to dynamical systems. Specific examples considered are the Goodwin model, the Lorenz system and an infectious disease model.

DATE: Thursday, February 7, 2013

TIME: 11:00am

PLACE: MSB 318

Refreshments will be served.