# CCSU
## DEPARTMENT OF MATHEMATICAL SCIENCES

# COLLOQUIUM

Friday, March 31
3:00 – 4:00 PM
Maria Sanford, Room 101

## ROADS AND WHEELS: WHERE THE SQUARE WHEEL MEETS THE ROAD

# GLENN WATERMAN

Graduate Student

## CENTRAL CONNECTICUT STATE UNIVERSITY

**Abstract:** What if roads were not flat? What type of road would make a square wheel roll smoothly? With mathematics we can model wheels that rolls smoothly on some very "rough" roads. Using differential equations we can explore the relationship between wheels and the roads upon which they roll. We will bring them to life using Mathematica to model some wheels that cannot exist in the real world.

The talk is based on the paper "Roads and Wheels", by Leon Hall and Stan Wagon.

*For further information:*
*gotchevi@ccsu.edu* 860-832-2839
http://www.math.ccsu.edu/gotchev/colloquium/