

# SPECIAL COLLOQUIUM

Dr Ilene H. Morgan  
University of Missouri-Rolla

will present

## Dice and Polynomials

2:30 pm  
Friday, February 10th  
Violette Hall 1236

**Abstract:** The probability distribution of the sum of the rolled spots on a pair of conventional dice is probably familiar. What happens if we change the number of spots on each face? Is it possible to re-spot the dice and get a probability distribution the same as the usual one? If so, how many ways are there of doing this? We will answer these questions using a surprisingly elementary argument involving polynomials.

Since mathematicians like to generalize things, we discuss similar questions for  $n$  dice, each of which has exactly  $m$  faces.

Dr. Morgan is a professor at the University of Missouri-Rolla. Afterwards she will talk about graduate studies in mathematics at Rolla.

**Cookies and Refreshments!!!**