Discrete Mathematics Seminar

Time: Friday, 15 February 2013, 1:00 – 2:00 PM
Location: 238 Derrick Hall
Title: Toric Subrings Associated to Graphs
Speaker: Dr. Joseph Brennan, Department of Mathematics, University of Central Florida

Abstract:

Associated to every finite graph is a monomial subalgebra of a polynomial ring. For a graph G = (V, E) this subring can be realized as the image of the natural map $k[E] \longrightarrow k[V]$. This talk will present a survey of of the dictionary that is being built connecting graph properties with homological properties of the associated algebra with particular attention to the structure of syzygies.