

# Colloquium

University of Texas at Arlington- Mathematics Department  
*Proudly presents*

**Dr. Michael Monticino**

Associate Dean for Administrative Affairs,  
College of Arts & Sciences  
Department of Mathematics  
University of North Texas

“Real Math, Real Applications”

Friday, February 13, 2009

2:30pm

304 Pickard Hall

## **Abstract:**

The last several years has seen a tremendous expansion in the career opportunities in science, business and government for mathematicians with expertise in probability, statistics, optimization and stochastic systems - even with the current economic conditions. These opportunities have been fueled by the collection of huge amounts of data and the development of computational tools to analyze and integrate the data into complex models. This talk will discuss some of these opportunities from the perspective of the speaker's work with a wide variety of organizations from ABC TV to top-tier banks. Besides the mathematical techniques, the challenges of working with an interdisciplinary team and the skill set needed for applied mathematics will be discussed. The case studies presented will range from mathematically simple, but with large revenue implications, to more sophisticated analytics in a first-to-market application to optimize electronic check routing.

*Refreshments & Socializing following the talk*

<http://www.uta.edu/math/pages/main/seminar.htm>