

**Mathematics Education Seminar**  
Department of Mathematics  
University of West Georgia

**1:00 PM, Wednesday October 22, 2008, Boyd Building, Room 206**  
Speaker: Mohammad A. Yazdani, Ph.D.

**Graphing Skills and Art Curriculum: Applications and Connections in a  
Technology Learning Environment**

**Abstract:** Graphing belongs to every subject matter and classroom across the curriculum. In this project we introduce some activities to integrate the students' skills of coordinate graphing and graphing of mathematical functions into art works. The activities provides the students with the opportunities to learn and / or review such mathematical concept as slope, equation of a line, equation of a circle, amplitude, period, phase shifts, and equations of trigonometric functions. In addition, the participants refine their skills of using instructional technologies such as graphing calculators and computer software to graph a variety of interesting and challenging functions. These activities may well be utilized in mathematics classes to point out the beauty of mathematics, its applications in arts, and motivate the students at the same time.

All are welcomed.