

Meeting: 1003, Atlanta, Georgia, MAA CP F1, MAA Session on Mathlets for Teaching and Learning Mathematics

1003-F1-871 **Diem M. Nguyen*** (dnguyen@bgsu.edu), Bowling Green State University, Department of Mathematics & Statistics, 450 MSC, Bowling Green, OH 43403. *Java Applets in Teaching Vector Calculus.*

Java Applets, small applications written using the Java code, provide a number of advantages for mathematics teaching and tutoring for both online and traditional class. Java Applets embedded in a course website can enhance the illustration of basic concepts and allow students to explore how the underlying principles can be derived from the dynamic and visualized examples provided. This session will illustrate the use of Java Applets in teaching Vector Calculus with vector addition, subtraction, multiplication, projection and inner product. (Received September 30, 2004)