

1056-G1-1931 **David E. Meel*** (mee1@bgsu.edu), P.O. Box 313, Bradner, OH 43406-0313. *Looking at Conceptual Online Linear Algebra applets.*

In this talk, a suite of conceptual online linear algebra applets will be presented. The applets, designed using JavaSketchpad, are accompanied with student activities and theoretical discussions of the nature of the applet and the goal of each applet. Several of the applets have been published in JOMA although these have been enhanced to address some of the shortcomings previously identified. In particular, the applets focus on concepts/techniques such as Gaussian Elimination, Matrix Transformations (2D to 2D and 3D to 3D), Matrix Multiplication/Factorization, Eigenvalues and Eigenvectors, Diagonalization, Singular Value Decomposition and Matrix Iteration. This talk will culminate with opportunities for the audience to suggest other possible applets that would help students explore linear algebra concepts. (Received September 22, 2009)