1135-C1-2120 **James D. Factor*** (james.factor@alverno.edu), Alverno College, Milwaukee, WI 53234.
Visualization of each Step and the Solution of Gauss-Jordan Elimination using GeoGebra. Preliminary report.

This presentation will use an interactive GeoGebra applet to show the visual geometric changes for each step of the Gaussian–Jordan elimination process as the solution unfolds in achieving reduced row echelon form. The cases of one solution, no solution, and infinite solutions (linear and planar) will be illustrated dynamically.

This applet, along with others, is freely available for instructor demonstration and student discovery of the meaning of linear algebra concepts. Associated activities have been designed to guide students in using the interactive applets to enhance learning. This work is part of the NSF project entitled Transforming Linear Algebra Education with GeoGebra Applets (NSF TUES Grant DUE-1141045). Additional information about the project developed applets is available at the MAA/NSF Poster Session. (Received September 25, 2017)