

1014-W1-262 **Charlotte M. Schulze-Hewett*** (cschulze@uwc.edu), 2909 Kellogg Ave, Janesville, WI 53546.
Three Calculus Problems: Applications to the Real (?) World. Preliminary report.

The first problem is from Calculus I. In this problem, students apply their knowledge of increasing/decreasing functions and concavity to analyze the lyrics of a song. The other two problems deal with population density. One problem is based in the world of Mother Goose and involves a density function for a rectangular area. The follow-up problem extends this world and uses a density function for a circular area. (Received September 02, 2005)