Dennis Patrick Walsh\* (dwalsh@mtsu.edu), P. O. Box X070, Middle Tennessee State University, Murfreesboro, TN 37132. The Probability of a Tied Vote under a Multiple Vote Scheme. Preliminary report.

Suppose there are several candidates vying for two at-large positions on an elected board, commission, or council. Suppose further that the candidates are all equally favored by the electorate, that is, any pair of candidates is equally likely to get the two votes of any voter. Under these assumptions, we derive the probability of a tied vote. Using Legendre polynomials and their generating function, we also derive the generating function for the number of outcomes resulting in such a tie. (Received September 28, 2005)