

**Meeting:** 1003, Atlanta, Georgia, MAA CP L1, MAA Session on Using Real-World Data to Illustrate Statistical Concepts, I

1003-L1-1563      **Suzanne E. Tourville\*** (setourville@ccis.edu), Columbia College, 1001 Rogers St., Columbia, MO 65216. *Introducing Hypothesis Testing Using Employment Discrimination Cases*. Preliminary report.

Several examples of employment discrimination cases are used to introduce students to the p-value approach to Hypothesis Testing in an introductory statistics class. The examples provide a framework for uniting the topic of discrete probability distributions to hypothesis testing. Additionally, in one example from a recent age discrimination case in Ireland, taken from Barry and Boland in *The American Statistician*, May 2004, the importance of a carefully stated hypothesis is explored by examining the effect that different definitions of young and old have on the p-values from Fisher's exact test. (Received October 05, 2004)