1077-62-144 **Jeremy Entner*** (`jentner@syr.edu`), Mathematics Department, 215 Carnegie Building, Syracuse University, Syracuse, NY 13244-1150. *Multivariate Nonparametric Ranking and Selection.* Preliminary report.

In the talk, we give a basic introduction to ranking and selection methods in one variable. Then using the multivariate quantiles defined by Tukey's depth function, we propose a non-parametric asymptotic procedure for selecting one of several multivariate populations. Simulation results will be presented to illustrate the efficiency of our procedure. (Received August 01, 2011)