

1046-L1-1836 **Darryl K Nester*** (nesterd@bluffton.edu), Bluffton University 52, 1 University Drive,
Bluffton, OH 45817. *Using Game Theory to Get a Date: Strategy Selection for Two (or more)*
Suitors.

Every day, Ann arrives home from work at some (random) time A between 4:00 and 5:00, and goes out to eat at 5:00. Bill and Carl would both like to take Ann to dinner. Sadly, at the end of each day, both of their cell phone batteries are depleted, so that each can only make one call between 4:00 and 5:00. If Bill calls at time B and Carl calls at time C , Bill gets the date if either $A < B < C$ or $C < A < B$. (If both call before Ann arrives home, everyone dines alone.) We'll help Bill choose a calling strategy to maximize his chance of getting a date no matter how Carl chooses a calling time. Then we'll consider what happens if—unbeknownst to Bill and Carl—a third suitor joins the game. (This problem is adapted and extended from *Statistical Decision Theory and Bayesian Analysis* by James Berger.) (Received September 16, 2008)