1145-05-2158 Kaitlyn B. Myers*, 201 Mullica Hill Road, Glassboro, NJ 08028, and Madeline P. Crews, Michael T. Urbanski and Breeann M. Wilson. The Game of Best Choice and Some Variations.

In the famous Secretary Problem, it is known that the optimal strategy is a positional strategy. More precisely, the interviewer should reject approximately the first 1/e or 37% of the candidates and then choose the next best person. We present various non-uniform distributions of the Secretary Problem by changing its constraints. One variation will be a pattern avoidance that keeps a positional strategy, but changes the probability of winning, while another allows for ties among the candidates. (Received September 24, 2018)