962-60-1292 **Michael G Monticino*** (monticno@unt.edu), University of North Texas, Department of Mathematics, P.O. Box 311430, Denton, TX 76203-1430, and **Pieter Allaart** (allaart@unt.edu), University of North Texas, Department of Mathematics, P.O. Box 311430, Denton, TX 76203-1430.
Optimal stopping rules for directionally reinforced processes. Preliminary report.

This talk discusses optimal stopping rules for directionally reinforced random processes. Both single and multiple stopping problems are considered. The work was inspired by a central precept in stock market technical analysis that security price surges and retractions tend to perpetuate or reinforce themselves. Explicit descriptions of optimal stopping rules are given for several interesting special cases, with and without transaction costs. (Received October 03, 2000)