1003-34-1089 **Christopher C Tisdell***, School of Mathematics, UNSW, 2052 Sydney, NSW, Australia.
Dynamic Inclusions on Time Scales. Preliminary report.

Differential inclusions generalise the idea of differential equations and find important applications in optimal control. This talk introduces a two-point boundary value problem for a dynamic inclusion on a time scale. This existence of solutions will be shown through appropriate fixed-point methods. Interestingly, the results presented are new even for the simple time scale consisting of the real numbers. (Received October 03, 2004)