1046-39-249 Raegan J Higgins* (raegan.higgins@ttu.edu), Texas Tech University, Dept of Mathematics & Statistics, Box 41042, Lubbock, TX 79409-1042. Oscillation Theory of Dynamic Equations on Time Scales. Preliminary report.

Using the method of upper and lower solutions and related results from oscillation theory, we will establish oscillation results for the the nonlinear second order functional dynamic equation

$$y^{\Delta\Delta}(t) + f(t, y^{\sigma}(t), y(\tau(t))) = 0$$

on a time scale $[0,\infty)_{\mathbb{T}}$ where $\sup \mathbb{T} = \infty$ and

$$\lim_{t \to \infty} \tau(t) = \infty \quad \text{and} \quad \tau(t) \le t \le \sigma(t).$$

These results extend some earlier criteria for the differential equation case. (Received August 22, 2008)