1023-39-1131   **Boris Belinskiy** (`Boris-Belinskiy@utc.edu`), Department of Mathematics, University of Tennessee at Chattanooga, Chattanooga, TN 37403, **John R Graef*** (`John-Graef@utc.edu`), Department of Mathematics, University of Tennessee at Chattanooga, Chattanooga, TN 37403, and **Sonja Petrovic** (`petrovic@ms.uky.edu`), Department of Mathematics, University of Kentucky, Lexington, KY 40506. *A Nonlinear Sturm–Picone Comparison Theorem for Dynamic Equations on Time Scales.*

The authors derive an analog of the well known Picone identity but for nonlinear dynamic equations on time scales. As a consequence, they obtain a nonlinear comparison theorem in the spirit of the classical Sturm-Picone comparison theorem. Comparison results yielding the nonoscillation of all solutions of nonlinear equations are also obtained. (Received September 25, 2006)