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M Predescu* (mpredescu@bentley/.edu), Bentley College, 353 Morison Hall, 175 Forest St, Waltham, MA 02452, and **R Levins** and **T Awerbuch**. *Global Stability in a Nonlinear System of Difference Equations*.

Some of the discrete models in ecology and biology employ nonlinear difference equation systems to model various observed phenomena. In this talk, I will discuss the dynamics and the stability character of solutions of a nonlinear system that arises in mathematical biology. Sufficient conditions for global asymptotic stability in terms of the parameters of the system will be given. (Received January 21, 2008)