1102-39-127 **T. Awerbuch-Friedlander**, Harvard School of Public Health, Dept. of Population and International Health, Boston, MA 02115, **R. Levins**, Harvard School of Public Health, Dept. of Population and International Health, Boston, MA 02115, and **M. Predescu*** (mpredescu@bentley.edu), Bentley University, Department of Mathematical Sciences, Waltham, MA 02452. *A Nonlinear System of Difference Equations for Dengue Control.*

The information about a Dengue epidemic can come from various sources (the number of infected people, the abundance of mosquitoes, or the number of breeding sites for instance). This information triggers awareness and the response can be either individual and/or at the general community level. In this talk we present a nonlinear system of difference equations that describes interactions between several variables involved in a Dengue epidemic. We are concerned with the analysis of solutions of this system. We will present the global asymptotic stability of the degenerate equilibrium and propose some extensions of the model. (Received July 26, 2014)