1094-45-51 **M. N. Islam*** (mislam1@udayton.edu), Department of Mathematics, University of Dayton, Dayton, OH 45469-2316. *Asymptotically stable solutions of a nonlinear integral equation.* Preliminary report.

In this paper the existence of asymptotically stable solutions of the nonlinear Volterra integral equation

$$x(t) = f(t, x(t)) + \int_0^t K(t, s) g(s, x(s)) ds.$$

is studied employing Schauder's fixed point theorem as the primary mathematical tool of analysis. (Received August 01, 2013)