1067-34-2383 **Seshadev Padhi*** (ses_2312@yahoo.co.in), Dept of Appl Math, Birla Institute of Technology, Mesra, Ranchi, 835215, India, **Julio G Dix** (jd01@txstate.edu), Department of Mathematics, Texas state University- san Marcos, San Marcos, TX TX78666-46, and **Smita Pati** (spatimath@yahoo.co.in), Dept of Applied Mathematics, Birla Institute of Technology, Mesra, Ranchi, 835215, India. *Global Attractivity of Periodic Solutions of First Order Delay Differential Equations with Applications in Population Dynamics.*

In this paper, we obtain a new sufficient condition for the global attractivity of solution of the delay differential equation $x'(t) + p(t)x(t-\tau) = 0,\ t \geq 0$ and $\tau > 0$ is a constant. Further, the result have been applied to different mathematical models arising in ecology. (Received September 23, 2010)