1062-39-18 **April Harry** and **Candace M. Kent*** (cmkent@vcu.edu), Virginia Commonwealth University, Department of Mathematics and Applied Math., P.O. Box 842014, Richmond, VA 23284-2014, and **Vlajko L. Kocic**. *Global Behavior of Solutions of a Periodically Forced Sigmoid Beverton-Holt Model.*

Our aim in this talk is to investigate the boundedness, the extreme stability, and the periodicity of positive solutions of the periodically forced Sigmoid Beverton-Holt model

$$x_{n+1} = \frac{a_n x_n^\delta}{1 + x_n^\delta}\,,\ n = 0\,, 1\,, \dots\,,$$

where $\{a_n\}_{n=0}^{\infty}$ is a positive periodic sequence with period $p$ and $\delta > 0$. In the special case when $\delta = 1$, the above equation reduces to the well-known periodic Pielou logistic equation, which is known to be equivalent to the periodically forced Beverton-Holt model. (Received June 08, 2010)