Meeting: 1006, Lubbock, Texas, SS 10A, Special Session on Extinction, Periodicity, and Chaos in Population and Epidemic Models

1006-92-174 **Shandelle M. Henson*** (`henson@andrews.edu`), Department of Mathematics, Andrews University, Berrien Springs, MI 49104, and **J. M. Cushing** and **Chantel C. Blackburn**. *Coexistence in a Ricker Competition Model.* Preliminary report.

Many models support the "competitive exclusion principle" in ecology. On the other hand, a significant number of models violate the principle through various dynamic mechanisms. We show that the Ricker competition model with overlapping generations can display non-Lotka/Volterra dynamics. In particular, an increase in interspecific competition can lead to coexistence. (Received February 15, 2005)