1048-92-293 R. Drew Pasteur\* (rpasteur@wooster.edu) and James F. Selgrade. Dynamics of a Human Menstrual Cycle Model with Multiple Inhibins. Preliminary report.

In clinical studies of adult women, a variety of qualitatively different reproductive hormone profiles have been observed. We consider the dynamics of a two-inhibin model for hormonal control of the human menstrual cycle, in this regard. Based on single-parameter bifurcations and exogenous hormone treatment, predicted possible cycles could have either high or low amplitudes, or even alternate-month profiles. We relate these differences to ovulation and fertility. (Received February 09, 2009)