1046-39-928 **Orlando Merino\*** (`merino@math.uri.edu`), Department of Mathematics, University of Rhode Island, Kingston, RI 02881, and **Sukanya Basu** (`sukanya@math.uri.edu`), Department of Mathematics, University of Rhode Island, Kingston, RI 02881. *Dynamics of the Leslie-Gower Model with Periodic Coefficients.*

We consider the system of difference equations

$$
\begin{cases}
x_{n+1} &= \dfrac{b_{1,n}\, x_n}{1 + c_{1,n}\, x_n + d_{1,n}\, y_n} \\[4mm]
y_{n+1} &= \dfrac{b_{2,n}\, y_n}{1 + c_{2,n}\, x_n + d_{2,n}\, y_n}
\end{cases}
\qquad n = 0, 1, 2, \ldots, \quad x_0,\, y_0 \geq 0
\tag{PLG}
$$

where $\{b_{1,n}\}$, $\{b_{2,n}\}$, $\{c_{1,n}\}$, $\{c_{2,n}\}$, $\{d_{1,n}\}$, $\{d_{2,n}\}$, are given $p$-periodic sequences of positive real numbers. We refer to (PLG) as the *Leslie-Gower model with p-periodic coefficients.*

In this talk we discuss the dynamics of (PLG) on the nonnegative (first) quadrant of the plane when the period is $p = 2$. Some results for general period $p > 1$ are also given. (Received September 12, 2008)