

1116-VM-1077      **Nar Rawal\*** ([nar.rawal@hamptonu.edu](mailto:nar.rawal@hamptonu.edu)) and **Arun Verma**, Hampton University, Hampton.  
*Coexistence and Extinction of Competing Species in the Time-Periodic Volterra-Lotka type Systems with Nonlocal Dispersal.*

This talk will address the coexistence and extinction of two competing species sharing the same domain  $D$  in the time periodic Volterra - Lotka type competing system with non-local dispersal. Such issues have already been studied for the time independent cases. This talk extends some similar results which are already proved for time independent cases to the periodic time dependent cases. In this talk, the relation ensuring the coexistence and extinction between the coefficients representing Malthusian growths, self regulations and competitions of the two species will be mentioned for the time dependent case of Volterra-Lotka type system with nonlocal dispersal. (Received September 16, 2015)