

Applied Dynamical Systems Seminar

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**Jan. 20, 2012,
1:00p.m., HH-3017**

***Some Remarks on Periodic Solutions for
Functional Differential Equations***

Abstract:

In this talk, I will show how the theory of global attractors and steady states for uniformly persistent dynamical systems can be used to obtain the existence of positive periodic solutions for dissipative periodic functional differential equations of retarded and neutral types. This result is then applied to a multi-species competition system and some epidemic models. A note on the weak

compactness of solution maps will also be given.