This talk will cover a variety of research and education topics and projects in mostly ecological areas that were in collaboration with, motivated by, or fostered by my esteemed colleague and UTK Chancellor’s Professor, Suzanne Lenhart. It will focus on our developments in the field of spatial control for resource management and note several areas that I consider fertile ground for new mathematical/computational efforts. On educational issues, I will discuss the major forces driving quantitative education for life science students today and provide suggestions for mathematically-focused educators to enhance the efforts of life science faculty to mentor "fearless biologists". (Received January 27, 2014)