Kathleen G. Snook* (ak7056@usma.edu), Department of Mathematical Sciences, U.S. Military Academy, West Point, NY 10996, and Mary Ann Connors (am1336@usma.edu), Department of Mathematical Sciences, U.S. Military Academy, West Point, NY 10996. A Spring-Mass System Demonstration Enhanced by the TI-89 Hand Held Computer Algebra System. Preliminary report.

This talk will illustrate how to incorporate a demonstration and laboratory activity into the classroom to enhance the teaching and learning of second-order differential equations. Speakers will present a demonstration/activity to explore the motion of a spring-mass system using the TI-89 hand-held computer algebra system, an actual spring-mass system model and a motion detector. (Received September 08, 2000)