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**William P Fox\*** ([wfox@fmarion.edu](mailto:wfox@fmarion.edu)), Department of Mathematics, Francis Marion University,  
Florence, SC. *MAPLE and Modeling with Ordinary Differential Equations.*

This talk concerns the use of MAPLE to help solve some interdisciplinary lively applications projects (ILAPS) in our ODE course at Francis Marion University. ILAPS were first developed and used at USMA and grew into PROJECT-INTERMATH for which FMU is a consortium school. In ODEs, our emphasis has been on modeling as well as numerical and graphical solutions to interdisciplinary projects. Several abbreviated ILAP projects will be discussed and their solution showed via MAPLE. These projects include: Bungee jumping, mixture problems, predator-prey models, and diffusion through a membrane. (Received September 26, 2000)