

1106-VG-945      **Brian J. Winkel\*** ([brianwinkel@simiode.org](mailto:brianwinkel@simiode.org)). *Using Modeling to Motivate and Drive Learning in Differential Equations Courses.*

Application and modeling are beyond manipulation and solving in a differential equations course. We use modeling scenarios to drive the learning and to introduce the mathematical concepts and techniques in a collegial learning community called SIMIODE - Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations found at [www.simiode.org](http://www.simiode.org). We give examples of modeling scenarios with data to motivate the study of differential equations. (Received September 09, 2014)