Day 3 - 4:00 PM–5:00 PM: Presentations on Getting the Word Out about Modeling

Simultaneous sessions have two 25 minute presentations with a 5 minute break in between.

Using SIMIODE Materials in Calculus as Adapted and Adopted (R1A) Jennie D’Ambroise, SUNY College at Old Westbury, Old Westbury NY USA

Adapting SIMIODE Modeling Scenarios for Calculus

Abstract: Are you teaching a Calculus class and struggle to incorporate modeling into your syllabus? In this talk we will review two examples of modeling projects that were adapted from existing SIMIODE scenarios. The adapted lab projects are designed for Calculus I students with virtually no additional preparatory lecture needed aside from standard Calculus I material. The projects take a modeling first approach in order to help students discover differential equations through modeling. Each project includes basic components of a typical differential equations lecture that the students see for the first time within the modeling project. Through the projects students learn not only what a differential equation is, but how Calculus can be used in applications. This talk will focus on the pedagogical approach of adapting existing SIMIODE scenarios, with mindfulness towards an unforgiving required syllabus schedule for your Calculus class.

Links to the two SIMIODE Modeling Scenario which were used in this presentation are given here.