

## 2016 Charter Schools Leadership Update Conference

December 8-9 2016 | Manchester Grand Hyatt | San Diego, CA



### Transitioning to NGSS: Focus on Modeling and Systems

**Presenters:** **Claudia Ludwig**, Education Program Manager, Institute for Systems Biology; **Lyle Tavernier**, Educational Technology Specialist, NASA's Jet Propulsion Laboratory

**Description:** This workshop will identify key shifts in the Next Generation Science Standards (NGSS) and provide practical guidance for implementing engaging instruction that effectively reflects those shifts. The presenters will walk through lessons that focus on using an interesting scientific phenomenon to weave NGSS' Science and Engineering Practices with Crosscutting Concepts and specific Disciplinary Core ideas. Lessons will target grades 3-8 most directly but will be presented with an eye to relevance across a broader grade span.

The workshop brings together two professional teacher trainers working in practicing labs. Each presenter has spent years supporting teachers to help students work as scientists and now connect that practice to NGSS standards. Ms. Ludwig began teaching at the high school level and will address systems and systems modeling. Mr. Tavernier began his career as an elementary teacher and will focus on modeling and the engineering design process.

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