Session 1 — Room 103
Friday, 1:30 through Saturday, 11:15a.m. — *Games and 3D-Virtual Worlds in Teaching and Learning*, Chang Liu, Ohio University

During this hands-on session participants will learn about and play the Weather Challenge, Mystery School and Fruit Fly Genetics educational modules. These three educational modules are located on the Ohio Teen Second Life island which is open to the public. In Weather Challenge, students get to fly up into the clouds to identify cloud types and weather patterns. In Mystery School, students use an avatar to walk around a virtual schoolhouse and answer 24 questions about things they see in the rooms deciding if it's an observation or an inference. After they finish the game they get to chose between four vehicles they can drive around the island. The Fruit Fly Genetics module is one experiment in the Interactive Science Lab which also contains the sugar and water solubility experiment and the redi experiment. In this experiment students step through the process of seeing fruit flies pass traits to their offspring.

Session 2 — Room 111A
Friday, 1:30p.m. — *Program Assessment: Evaluating Fellow, Teacher, and Student Outcomes*, Melissa Dyehouse, Purdue University

This presentation will begin with a brief overview of Purdue’s GK-12 program with a focus on the types of assessment instruments used to evaluate outcomes for each participant group, followed by an opportunity for attendees to share their experiences. Join in a discussion on which instruments are used to measure each outcome, some common evaluation challenges, which instruments were most or least useful, and future directions.

The Purdue GK-12 program uses the following assessment instruments/methods will as the focus of its mixed-methods design: Concept maps (fellows and teachers), draw-a-scientist (students, teachers), draw-an-engineer (students), STEBI-B (fellows), Program Survey (teachers and fellows), classroom observations, journal entries (fellows), focus groups (teachers, fellows, administrators), interviews (teachers), open-ended questions (teachers, fellows, students, staff), ICA-R (students), Math and Science Attitudes survey (students), Math and Science Confidence survey (students), and videotaping of research presentations (fellows).