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Jennifer A Czocher* (czocher.1@txstate.edu), San Marcos, TX 78666, and **Elizabeth Roan**, San Marcos, TX 78666. *SCUDEM Update: Students' Expected and Measured Gains.*

We present an update on student gains from participation in SCUDEM. We will first offer a synthesis of pre- and post-competition survey data from 3 rounds of the competition to describe the expectations students held going into the competition, the extent to which they were met, and how their expectations compared to those of other stakeholders. Results show that students, researchers, and designers held differing expectations. We explore implications of this finding for broadening participation. In addition, we will give preliminary results of a study linking gains in student self-efficacy to gains in modeling competencies. (Received September 15, 2019)