



CoCo Seminar Series Spring 2018

Making and Tinkering: Connecting the Dots in K-12 STEM Education

Dr. Amber Simpson
**Assistant Professor of Teaching, Learning &
Educational Leadership**
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Tuesday February 20, 2018 2:00-3:00pm
(note the irregular day/time)

**Engineering Building H-9 (Knoll-MacDonald Commons / Watson
Commons)**

The current teaching of K-12 science, technology, engineering, and mathematics (STEM) content typically manifests as individual subject areas or as isolated disciplines where content and skills are independent of one another as opposed to a dynamic entity of shared practices and processes. With the recent phenomenon of making and tinkering in formal (e.g., classrooms) and informal (e.g., museum) learning environments, stakeholders are challenged to consider if, and how these activities engage and enhance STEM learning for K-12 students. The purpose of this presentation will be to describe how K-12 standards-based STEM practices align with making practices and how the tasks and interactions with maker educators and peers shape these practices.

Dr. Amber Simpson is an Assistant Professor of Teaching, Learning & Educational Leadership at Binghamton University. Her research interests include K-12 STEM education, maker education, and STEM identity.

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