

1145-L1-1952      **K. Andrew Parker\*** (kparker@citytech.cuny.edu). *Open-Ended Exploration Problems: Using WeBWorK to Break the Textbook-Problem Mold*. Preliminary report.

Open-source online homework software, such as WeBWorK, enables instructors to craft just about any problem they can think of. So why do the majority of online homework problems still look like they came straight from a textbook?

This talk will showcase new instructional content, powered by WeBWorK and GeoGebra in tandem, designed to support student inquiry by circumventing the standard "here's a problem, now do something with it" homework paradigm. These new problems challenge students to create and solve their own problems; and for instructors, the underlying framework presents rich opportunities for further development and creativity.

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