

1056-E1-1248 **Patti Frazer Lock*** (plock@stlawu.edu), Dept of Math, CS, and Statistics, St. Lawrence University, Canton, NY 13617. *Using Clickers in Advanced Undergraduate Mathematics Courses.*

The speaker will discuss the use of a personal response system (clickers) in upper-level math courses. Specific outcomes from using classroom voting will be discussed, including student satisfaction, classroom dynamics, and learning, with a focus on learning how to write valid proofs. The speaker will discuss the impact and give examples from a 300-level Group Theory course, a 300-level Graph Theory course, and a 200-level Bridge to Higher Math course. (Received September 21, 2009)