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Adam F. Childers and **David G. Taylor*** (taylor@roanoke.edu). *Classroom Stats: Spice Up Your Classroom with Fun, Live, Data Collection and Analysis.*

Studies show that students are more engaged in a statistics class when the data being used is personal, either because the data supports a cause they care about or because it is about them. In this talk, we demonstrate a new, free, mobile application and website for teaching statistics that allows instructors to collect data (via fun, small, games), run experiments, and instantly analyze the results in front of the class. Instructors and students can also download the raw data to use in other statistics software such as MINITAB, R, and SPSS. The benefits of using the Classroom Stats system is that it eliminates the tedious process of manually collecting and recording data from students, and it allows the instructor to design and run meaningful experiments to teach statistical inference. We demonstrate how to use this application for both descriptive and inferential statistics along with our experience using it in the classroom. (Received September 13, 2017)