

1118-97-214 **Cassie Williams*** (willi5c1@jmu.edu), Harrisonburg, VA , and **John (Zig) Siegfried**. *What happens when you stop lecturing to your students?* Preliminary report.

“Active learning” has garnered attention in post-secondary STEM education in the past few years, and with good reason. Alternative course structures like flipped classrooms and inquiry-based learning (IBL) can not only improve content learning but also change student perceptions of what mathematics is and their own ability to do mathematics. In this talk, I will present my own experiences from six semesters of flipping calculus courses and one semester using IBL in an upper-division course with a significant population of pre-service teachers. In particular I will share data collected in these courses and try to put that data in a broader perspective. (Received February 01, 2016)