1106-VT-80 **Ken Collins*** (kcollins@charlottelatin.org), 2024 Bucknell Avenue, Charlotte, NC 28207.
Using Classroom Investigations To Improve Student Learning Of First Year Calculus. Preliminary report.

A common issue in a first year calculus class is student misunderstanding of fundamental mathematical idea. The goal of a classroom investigation is to allow the student to grasp the major idea(s) upon which the lesson is based. The investigations offer the student an opportunity to develop and apply their understanding using a set of guided questions and explorations. Students can work collaboratively and share their insights. The preliminary results of using this method indicate an improved performance in both assigned problem sets and formal examinations. We will share reproducible copies of some of these investigations. (Received July 07, 2014)