

**Meeting:** 1003, Atlanta, Georgia, MAA CP G1, MAA Session on Drawing on Our Students' Thinking to Improve the Mathematical Education of Teachers

1003-G1-509      **Jane C. Ries\***, 6506 Sailing Breeze Trail, Austin, TX 78744. *Assessing Secondary Preservice Students' Understanding of Time vs. Distance Functions.*

An undergraduate mathematics class focusing on functions explores time versus distance functions using motion detectors and graphing calculators but the exploration does not lead to improvement of students' understanding of translating the path of a caterpillar to a time versus distance graph. An improvement in the students' abilities to communicate - both verbally and written - about mathematical concepts was noticed. This session will focus on whether the post-test was a fair assessment of the concepts in the exploration. (Received September 17, 2004)