

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

1003-G1-237 **Betsy Darken*** (betsy-darken@utc.edu), Mathematics Department #6956, University of Tennessee at Chattanooga, 615 McCallie Ave., Chattanooga, TN 37403. *Developing a Deeper Understanding of K-8 Mathematics While Reviewing the Basics: How Little Our Future Teachers Know—and How Much They Can Learn.* Preliminary report.

The presenter will first discuss the results of a pretest-posttest study of future K-8 teachers. Questions on the test used in this study addressed topics ranging from basic factual recall to understanding of mathematical concepts. The presenter will also discuss class-tested methods for developing a more profound understanding of fundamental mathematics, while at the same time addressing many students' basic factual and procedural weaknesses. (Received September 01, 2004)