

Meeting: 1003, Atlanta, Georgia, SS 2A, AMS-MAA-MER Special Session on Mathematics and Education Reform, I

1003-97-1599 **Gregory D. Foley***, 5100 Eilers Avenue, Austin, TN 78751. *Teaching Logic to Prospective Elementary and Middle School Mathematics Teachers*. Preliminary report.

According to renowned mathematics educator Bob Davis, mathematics is what you have left over after you have invented ways to solve problems and reflected on those inventions. With this as his motto, the presenter taught an undergraduate course in the Introduction to the Logic and Structure of Mathematics during Spring Semester, 2004 to a group of prospective teachers of Grades K-8, using a modified R. L. Moore method. Much time was devoted to students presenting their work to the class. The course focused on problem solving, exploring, conjecturing, reasoning, and communicating using number systems and algebraic systems as the content. The talk will focus on how this course helped the pre-service teachers enrolled in the class to learn about logic and mathematical reasoning. (Received October 05, 2004)