

Meeting: 1003, Atlanta, Georgia, MAA CP A1, MAA Session on Getting Students To Discuss and To Write About Mathematics, I

1003-A1-940 **Katherine J. Mawhinney*** (mawhinneykj@appstate.edu), 121 Bodenheimer Dr., ASU Box 32092, Boone, NC 28608. *Communicating Mathematics through Inquiry-Guided Instruction or a Modified Moore Method.*

Introduction to Topology, or MAT 4710 as it's called at Appalachian State University, is one of the courses offered by the Mathematical Sciences Department that contains a *speaking designator*. At Appalachian, students must take at least one course in their major that requires oral presentations of a formal nature. This is one of many special designator requirements students must meet for completion of their degree.

The topology course offered in the fall of 2004 was presented through a (highly) modified Moore method to promote student understanding of basic topological properties, to increase the spirit of inquiry amongst the students, to improve their skills in communicating mathematics to an audience of their peers, and to satisfy the speaking requirements of the course. The presentation will include a model of the course taught and address the successes and failures of this particular example of instruction. Topics discussed will include management issues before and during student presentations, balancing the use of textbooks and course notes, performance assessment and grading, student reactions to the course, and ideas about applying the teaching method to other mathematics courses. (Received October 01, 2004)