

1046-97-1481      **Bernadette Mullins\*** (bmullins@bsc.edu), Department of Mathematics, Birmingham-Southern College, Birmingham, AL 35254, and **John Mayer, Tommy Smith** and **Rachel Cochran**. *The impact of challenging mathematics courses on middle school teachers*. Preliminary report.

The Greater Birmingham Mathematics Partnership offers a series of summer mathematics courses for in-service teachers. These intensive two-week courses focus on mathematics content and model inquiry-based pedagogy. This study concerns the impact of these courses in terms of changes in teacher content knowledge, teacher classroom practice, and student achievement. Instruments include the test of Content Knowledge for Teaching Mathematics, the Reformed Teaching Observation Protocol, SAT-10, and the Alabama Reading and Mathematics Test. (Received September 15, 2008)