

1046-R1-456

Elizabeth A. Burroughs* (burrough@math.montana.edu), Department of Mathematical Sciences, PO Box 172400, Bozeman, MT 59717-2400. *Using Lesson Study to Enhance Content Knowledge and Use of Inquiry in Middle School Classrooms.*

This session will describe a professional development project that uses lesson study to (1) increase middle school mathematics teachers' content knowledge; (2) to promote their use of inquiry-based pedagogy in classrooms; and (3) to strengthen school-based mathematics learning communities. Twelve teachers in two different towns formed two mathematics lesson study teams, each team spanning grades 5–8. Each team conducted a six-week lesson study cycle with guidance from university faculty. The teams focused on algebraic content knowledge and using inquiry-based pedagogy. The session will report results from the first lesson study cycle, as well as present a synopsis of ongoing plans to incorporate pre-service middle school mathematics teachers into the project. (Received September 03, 2008)