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**M. CAROL WILLIAMS**, Texas Tech University

*Strengthening the Mathematical Content Knowledge of In-Service Teachers*

We will describe the implementation and effectiveness of our new multidisciplinary graduate program for elementary teachers. With support from the US Department of Education and faculty from the the TTU Math Department, Physics Department, and College of Education, we have strengthened both the mathematical content knowledge of the participating teachers and their ability to correctly and clearly describe mathematical concepts to their students.