

Department of Mathematics and Statistics Colloquium

Mathematical Modeling with Elementary School-Aged Students

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Abstract: Modeling, a cyclic process by which mathematicians develop and use mathematical tools to represent, understand, and solve real-world problems, provides important learning opportunities for school students. Modeling opportunities in secondary schools are apparent, but what about in the younger grades? Two questions are critical in mathematical modeling in K-5 settings. (1) How should opportunities for modeling in K-5 settings be constructed and carried out? (2) What are the tasks of teaching when engaging elementary students in mathematical modeling? In this talk I will present a framework for teaching mathematical modeling in elementary classrooms and provide illustrations of its use by elementary grades teachers.

Wednesday, November 15 at 3:50 in Room 103

Refreshments at 3:30