

1135-G1-2085 **Ashlee LeGear*** (ashlee.legear@uwrf.edu), 214C North Hall, River Falls, WI 54022, and
Erick Hofacker and **Sherrie Serros**. *Changing Classroom Expectations and Culture through
Mathematical Modeling*.

When the Common Core State Standards of Mathematics were adopted by many states in the U.S., it provided a new spotlight on the importance for implementing mathematical modeling in the secondary curriculum. Through the infusion of modeling into the classroom, it provides students a new lens for looking at and solving meaningful problems. By introducing students to the mathematical modeling cycle, it suggests to them that mathematics problems should involve choice and be completed throughout multiple iterations.

Work being completed within a professional development project involving 20 secondary mathematics teachers will be shared. We will showcase how teachers can transfer a word problem to a modeling-based problem. Rich tasks will be presented to show the types of opportunities that teachers need to engage in so that they see the importance and need to bring these types of problems into their classroom. (Received September 25, 2017)