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Bruce J. Petrie* (b.petrie@utoronto.ca). *Paradigms, Mathematics, and Education*. Preliminary report.

Thomas Kuhn's paradigm concept has not only been considered notoriously vague but the applicability of Kuhn's structure of scientific revolutions to mathematics has been heavily criticized in the literature. Regardless, his paradigm concept remains fruitful for historians and mathematicians engaged in history of mathematics. The concept of paradigm also proves useful for the education of mathematics. I will show in this special session on The Relations Between the History and Pedagogy of Mathematics that the paradigm concept can transform traditional mathematics education. (Received January 20, 2012)