1135-B1-1139 Rachael Talbert* (rtalbe1@students.towson.edu), Diana Cheng and Tetyana Berezovski. Mathematical interpretations of figure skaters' blade tracings.
We show a series of mathematical modelling problems about figure skaters' blade tracings. These problems were solved by undergraduate pre-service middle school mathematics teachers, who interpreted skating rink diagrams using their knowledge of circumferences of circles, expressions and equations, scaling, and rates. In an open-ended problem, the preservice teachers were asked to choreograph their own skating step sequences and report on their mathematical properties. We report on some sample student work. (Received September 19, 2017)

