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**Jason Cantarella** and **Elizabeth Denne\*** (edenne@smtih.edu), Dept. Mathematics and Statistics, Smith College, Northampton, MA 01062, and **John McCleary**. *Squarepegs and Inscribed Polygons*. Preliminary report.

Given any Jordan curve in the plane, are there four points on the curve which are the vertices of a square? This is the “squarepeg” problem first posed by Toeplitz in 1911. This talk will give a brief overview of the history of the problem, as well as an update on our progress on the problem. I’ll also discuss more general results about polygons inscribed in simple closed curves in dimensions 3 and higher. (Received September 20, 2011)