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**EVA CZABARKA**, University of South Carolina

*Minimum Wiener index of planar triangulations and quadrangulations*

The Wiener index of a graph is the sum of distances between all unordered pairs of vertices (or  $\binom{n}{2}$  times the average distance, where  $n$  is the order of the graph). We will determine the minimum Wiener index of  $n$ -vertex of  $c$ -connected planar triangulations and quadrangulations for all possible values of  $c$ , and find the structure of the extremal graphs for 5-connected triangulations and 3 connected quadrangulations.