Lin Duong and Brenda K Kroschel* (bkkroschel@stthomas.edu), Univ. of St. Thomas, Mail #OSS 201, 2115 Summit Ave., St. Paul, MN 55105, and Michael Riddell, Kevin N. Vander Meulen and Adam Van Tuyl. Maximum nullity and zero forcing of circulant graphs.

The zero forcing number of a graph $G$ is known to provide a bound on the minimum rank of any real symmetric matrix associated with $G$. Known results about the zero forcing number of circulant graphs are reviewed. Then the zero forcing number of various classes of circulant graphs is determined and the maximum nullity of associated real symmetric matrices is also explored for these classes. (Received July 17, 2019)