1125-VI-154        **Rene Ardila\*** (`rene-ardila@uiowa.edu`). *Factorization Properties of Graph Correspondences.*

In the field of operator algebras, graph correspondences are the source of a great amount of research activity. We study the factorization properties of semigroups formed by graph correspondences. By expressing these semigroups in terms of matrices, we show how to turn questions about correspondence factorization into questions about matrix factorizations. I will give examples of the great variety of factorization behaviors found in semigroups of graph correspondences: from unique factorization to extremely non-unique factorization. (Received August 04, 2016)