Every graph has an associated neighborhood multiset describing the adjacencies for each vertex. In general, a graph cannot be reconstructed from its neighborhood multiset. Given a graph $G$ there may be many graphs $H$ with the same neighborhood multiset as $G$. In this talk we describe a method for finding all such $H$. This involves an unexpected connection to graph products.

For the DM seminar schedule, see:
http://www.people.vcu.edu/~clarson/DM-seminar.html