1129-05-25 **Nathan B. Shank*** (shankn@moravian.edu), Moravian College, 1200 Main Street, Bethlehem, PA 18018. *Component Order Connectivity and Variants.*

The *Component Order Connectivity* (COC) of a graph is a network reliability measure introduced by Suffel et al. in 1996. The COC parameter measures the minimum number of vertices that must be removed (and incident edges) from a graph so that each remaining component has order less than some predetermined value k. The COC parameter has lead to many other interesting variations and examples of conditional connectivity parameters. During this talk we will consider different conditional connectivity parameters related to COC. We will look at examples, recent results, and talk about some ongoing research in hopes of stimulating collaboration. (Received January 19, 2017)