Jonathan Cutler and A. J. Radcliffe* (aradcliffe1@math.unl.edu). Graphs with given maximum degree containing the most complete subgraphs.

I will talk about a number of extremal problems concerning enumerative graph parameters—those counting structures associated with a graph. Examples include the number of independent sets in a graph or the number of proper $k$-colorings. I will focus on a recent result on the graph with given maximum degree having the most complete subgraphs. (Received August 06, 2013)