## Miscellaneous New Strongly Regular Graphs from Generalized Quadrangles

Liz Lane-Harvard\*, University of Central Oklahoma, Tim Penttila, University of Adelaide

Generalized quadrangles are related to various combinatorial objects. Of particular interest for this talk is the relationship between point graphs of generalized quadrangles and strongly regular graphs. We construct several new strongly regular graphs, relying on various generalized quadrangles. In particular, we'll examine two new strongly regular graphs arising from  $Q(4, 4^h)$  for h = 1, 2.

Keywords: strongly regular graph, generalized quadrangle