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Elizabeth Lane-Harvard* (lane@math.colostate.edu) and **Tim Penttila.** *Exploiting Connections Between Graph Theory and Finite Geometry.*

There are many open problems concerning strongly regular graphs: proving non-existence for parameters where none are known; proving existence for parameters where none are known; constructing more for parameters where examples are already known. The work surveyed in this talk falls into the last two categories. The methods used involve symmetry and geometry, and experimentation with computer algebra packages to gain insight. (Received September 03, 2013)