

1096-C5-2154 **Margaret E Kepner*** (renpek1010@gmail.com). *Magic Squares and Their Magic Secrets*. Preliminary report.

Magic squares have intrigued both professional and recreational mathematicians for centuries. In addition to the standard properties that make a particular square array of consecutive integers "magic," other relationships and patterns can be found. I will discuss several 8x8 magic squares that have interesting properties, and explain how I have developed visual expressions of these squares and their magic secrets. The artistic formats I have chosen are inspired by traditional Log Cabin quilt designs, where the specific pattern I have employed alludes to the structure, or history, of each magic square. (Received September 17, 2013)