Heakyung Lee* (leeh@winthrop.edu), Department of Mathematics, Winthrop University, Rock Hill, SC 29733. Magic squares and a magic tortoise developed in the 17th century in Korea. Preliminary report.
A Korean mathmatician in the 17 th century, SukJung Choi, developed a veriety of magic squares and a magic tortoise. Especially, he created a $9 \times 9$ magic square that contains 9 blocks of $3 x 3$ magic squares with same sum. He also designed a magic tortoise containing 9 hexagones by using numbers 1 through 30 , where each hexagon has the sum of 93 . In this presentation, we will demonstrate some of his work and compare with a magic square developed in ancient China. A general idea of his work can be applied to a larger magic squre and a magic tortoise with a differnt sum. (Received September 02, 2007)

