1125-F5-1830 **Hossein Behforooz*** (hbehforooz@utica.edu), Mathematics Department, Utica College, Utica, NY 13502. *Linear Algebra Properties of Magic Squares.*

We know that, over all, every magic square is a very especial square matrix and in this talk, we will present some interesting linear algebra properties of these magic square matrices. There are some published short articles or notes related to this subject but they are not very complete papers with all details in one place. Since the time of the lecture is short and the title of the session is "Innovative Teaching through Recreational Mathematics", I promise to follow the title of the session and state the theorems without proofs. That will change my presentation from theoretical approach lecture to a fun and amusement type of lecture. Yes, MATH is FUN and we must remember that we had Magic Squares, may be more than four thousand years, before new born entertainment with Sudoku Squares.

Reference: Hossein Behforooz: Linear Algebra Properties of Magic Squares, Topics in Recreational Mathematics, No. 1, 2016, 18-23. (Received September 19, 2016)