1116-M5-549 **Arnold Tubis*** (tubisa@aol.com). *Origami-inspired deductive threads in pre-geometry, and the geometric modeling of aesthetically pleasing folded structures in grades 8-12.* Preliminary report.

Origami may be used to inspire basic postulates in pre-geometry from which can be inferred many of the standard mainstream geometric inferences relating to intersecting and parallel lines, congruence and area formulae of polygons, and the Pythagorean theorem. Moreover, many of these inferences may also be easily demonstrated/verified by folding. Also, the crease pattern analysis of simple and more complex decorative origami boxes provides a novel platform for producing interesting useful and aesthetically pleasing folded structures while at the same time providing extensive experiences in the integrated application of geometric concepts and techniques. (Received September 06, 2015)