

1106-A1-2415 **Josh Thompson*** (joshthom@nmu.edu), Josh Thompson, Department of Mathematics, Northern Michigan University, Marquette, MI 49855. *Wooden you like to play with some Penrose Tiles?* Preliminary report.

In this activity, 150 handmade wooden Penrose tiles will be shared among a medium-sized group of geometry "students" who will investigate the geometry of the tiles and the tilings they create. Angle measure, symmetry and translational and fractal geometry are among the topics to be discussed. Then, the group will work together to create two large Penrose tilings which exhibit perfect 5-fold symmetry. Along the way, the mathematics of Penrose tilings will be discussed and contrasted with more familiar tilings of the plane. (Received September 16, 2014)