

1096-VM-2714      **Casey Mann\*** (cemann@uw.edu), **Laura Asaro** (laugasar@gmail.com), **John Hyde** (johnny.m.hyde@gmail.com), **Melanie Jensen** (mjensen1@tulane.edu) and **Tyler Schroeder** (tlschroeder@noctrl.edu). *Uniform Edge-c-Colorings of the Archimedean Tilings*. Preliminary report.

A *uniform edge-c-coloring* of an Archimedean tiling is an assignment of colors to the edges of the tiling that is vertex-transitive with respect to color-preserving symmetries of the tiling. The problem of finding all uniform edge- $c$ -colorings for all 11 Archimedean tilings was posed by Grunbaum and Shephard in their book *Tilings and Patterns*. This talk will present the solution to this problem; there are 109 such edge-colored Archimedean tilings. (Received September 18, 2013)