

1125-D1-86

Carol E. Gibbons* (gibbonsc@salve.edu), Salve Regina University, 100 Ochre Point Ave, Newport, RI 02840, and **Jayne Hennessy** (hennessj@salve.edu), Salve Regina University, 100 Ochre Point Ave, Newport, RI 02840. *The Geometry and Spirituality of Islamic Tiling*. Preliminary report.

We will discuss our current interest in the geometry of Islamic tiling patterns. The tiling patterns are useful models when studying symmetry, infinity, and groups. This ancient and beautiful art, while based on simple geometric shapes, produces patterns that are amazingly complex. Although the works are centuries old, some have properties of recently developed mathematics such as fractals and aperiodicity. The link between the geometry and the spiritual effect of the tiling is a major focus. (Received July 16, 2016)