



# Barbara T. Faires Allegheny Mountain Colloquium



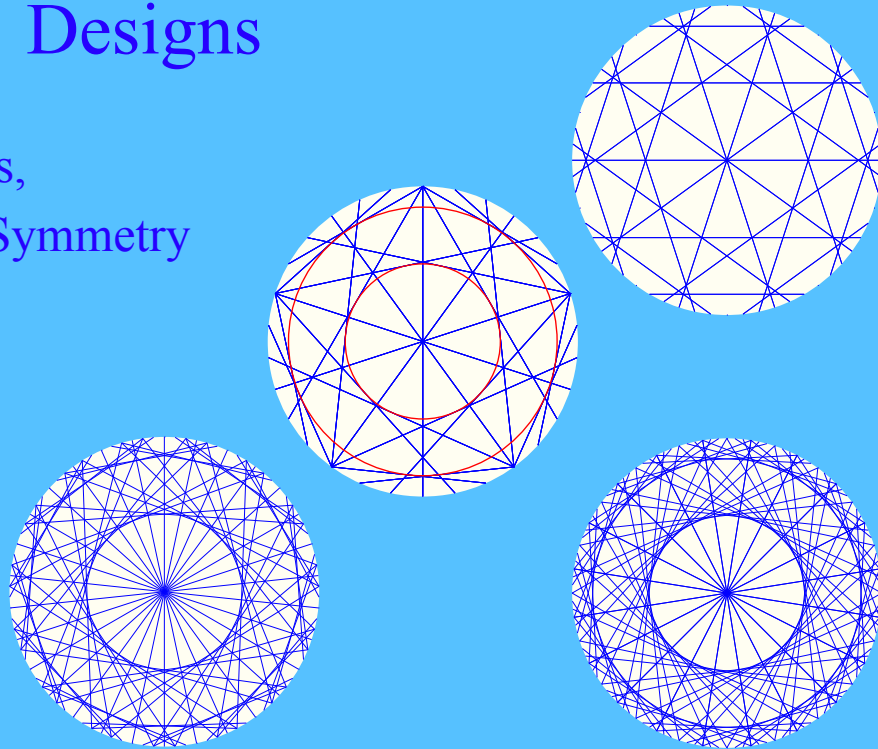
**Speaker:** Dr. Michael McConnell  
(PennWest University—Clarion)

**Date:** Tuesday, 26 September 2023, 4PM–5PM

**Zoom link:** <https://bit.ly/allemo>

## Modular Residue Designs

Fixed Points,  
Rotational Symmetry  
and Circles



### **Abstract:**

Although modular residue designs began as recreational mathematics, with beautiful designs and patterns, freely accessible software like LaTeX and GeoGebra allow students to explore mathematics at many levels. They can recognize and describe patterns as well as test and prove conjectures while using a wide variety of mathematics. This talk will focus on an exploration and classification of designs with fixed points and rotational symmetry.