

*Department of Mathematics and Statistics*  
*Colloquium Lecture Series*

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*Ursinus College*

**Geometric Configurations**

A geometric  $k$ -configuration is a collection of points and straight lines, typically in the Euclidean plane, so that every point lies on  $k$  lines and every line passes through  $k$  points. 3-configurations have been studied since the late 1800s, but there was little investigation of  $k$  configurations for  $k > 3$  until about 30 years ago. In this talk, we will discuss recent discoveries and open questions about  $k$  configurations, primarily focusing on the case of symmetric  $k$ -configurations, which are configurations which possess nontrivial geometric symmetry and are thus very visually attractive.

**Wednesday, April 1, 2009**

*(Note revised day!)*

*Chapman 106*

*11:45–12:45*

*Refreshments after  
the talk in Chapman 101A*

