

# Sharing Mathematics

May 17<sup>th</sup>, 2018

Birch Building Room 322

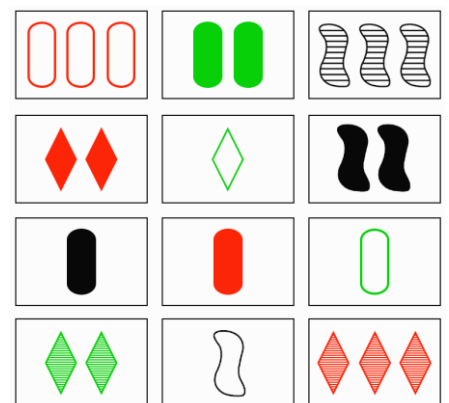
9:00 am Refreshments

9:30 – 10:30 am

*Creative Mathematics from the Game of SET*

Dr. Jonathan Jedwab, Simon Fraser University

Find out how the game of SET can be used as a creative gateway to several areas of mathematics, including combinatorics, finite geometry, and coding theory. SET novices and addicts are equally welcome!



10:45 – 11:45 am

*Euler and Elizabethan Embroidery*

Dr. Jane Butterfield, University of Victoria

Learn about a little-known application of a special type of Eulerian circuit: medieval embroidery! We will try some hands-on activities that are appropriate for any learners with moderate manual dexterity, using items found in most craft stores.



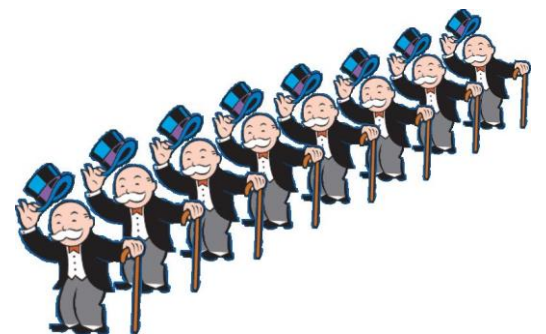
11:45 am Lunch

12:45 – 1:30 pm

*Derangements (1702-2017): An Inclusion-Exclusion Case Study*

Dr. Mark Kayll, University of Montana

See how the Principle of Inclusion/Exclusion can be used to investigate generalizations of derangements. Combining these two standard topics leads to some surprising and charming generalizations.



1:45 – 2:45 pm

*Maximally-Even Strings*

Lisa Lajeunesse, Capilano University

How can different types of symbols be distributed as evenly as possible in a circular arrangement? Gain insights playing with coloured beads and discover a variety of other applications, from musical scales and rhythms to the rendering of lines on a pixelated screen.

