

Undergraduate Mathematics Colloquium

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**“Geometric optimization:
An exploration through soap films”**

Friday August 24

Talk at 4:00 in Herman Brown 227

Tea & cookies at 3:30 in Herman Brown 438

Pizza after the talk

ABSTRACT:

Nature exhibits a tremendous variety of shapes, the selection of which we can attribute to a drive towards optimizing function. We explore some of the mathematics behind this geometry of the natural world through a discussion and experimentation with soap films, in which a number of quite subtle principles may be observed.

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