

*Mark your calendar. . .*

## Mathematics Colloquia Spring 2005

Mathematics colloquium talks are Wednesdays 3:40-4:40 p.m. in Science 108. Refreshments are provided.

Jan. 26	Dr. Nicholas Coult, Augsburg College
Feb. 9	Dr. Terrance Hurley, Dept. of Applied Economics, University of Minnesota
<b>Feb. 23</b>	<b>Dr. Brian Loe, Lockheed Martin Corporation</b>
Mar. 9	TBD
Apr. 6	TBD
Apr. 13	TBD
Apr. 27	TBD

## Ocean Acoustics

Dr. Brian Loe,  
Lockheed Martin Corporation

Sound propagates through water better than light or other forms of electromagnetic radiation. So while we can rely heavily on optical, infrared, and microwave systems for communication and remote sensing, in the ocean we rely on acoustic systems. In this lecture Dr. Loe will provide an introduction to the ocean environment and how it influences the propagation of sound waves.

**TIRED OF HAVING SANDS OF  
MATHEMATICS KICKED IN  
YOUR FACE?  
BUILD MATHEMATICAL  
MUSCLE BY SOLVING THIS  
WEEK'S PROBLEM!**

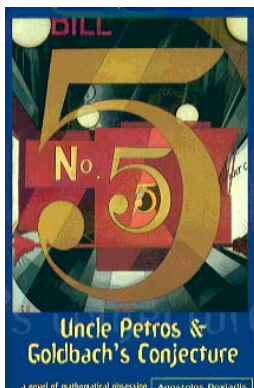
### Puzzle 7

Remember prime numbers – natural numbers that have exactly two factors like 3 or 17? The puzzle for this week is to find a pair of prime numbers whose sum is 690.

### Faux Problem 7 A problem faux the people

Find an even number greater than 2 that is not the sum of two prime numbers. HINT: Before you spend too much (any) time on this problem, see [http://en.wikipedia.org/wiki/Goldbach's\\_conjecture](http://en.wikipedia.org/wiki/Goldbach's_conjecture)

Send your solutions (not just answers, please) to the editors at [haines@augsborg.edu](mailto:haines@augsborg.edu) or drop them in the “Puzzles & Problems” box in the Mathematics Department Suite, Science 137. Getting the Augarithms after we’ve published the answers? The puzzles are available at publication date on the web. [As usual, this puzzle is not our invention. The credit will appear with solvers list.]



## Unusually Warm Single-Digit Weather Encourages Early Start on Summer Reading

Looking for a fun novel with some cool mathematics? Check out *Uncle Petros and Goldbach's Conjecture*. Reviews are posted at:

<http://www.maa.org/reviews/petros.html> and  
<http://www.ams.org/notices/200010/rev-jackson.pdf>

*Augarithms* is available on-line at  
[augsborg.edu/math/augarithms/](http://augsborg.edu/math/augarithms/).  
Click on the date you want to see.

### *Augarithms*

*The Bi-weekly Newsletter of  
the Department of  
Mathematics at Augsburg College*

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