

Mark your calendar. . .

Mathematics Colloquia Spring 2005

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

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|----------------|--|
| Jan. 26 | Dr. Nicholas Coult, Augsburg College |
| Feb. 9 | Dr. Terrance Hurley, Dept. of Applied
Economics, University of Minnesota |
| Feb. 23 | Dr. Brian Loe, Lockheed Martin Corporation |
| Mar. 9 | Profs. Tracy Bibelnicks, Blake Boursaw and
Matthew Haines, Augsburg College |
| Apr. 6 | Dr. Matt Richey, St. Olaf College |
| Apr. 13 | Dr. Brenda Kroschel, University of St. Thomas |
| Apr. 27 | Dr. Danny Kaplan, Macalester College |

reviewed at a level suitable for mathematicians and a range of mathematical techniques will be examined, from simple statistics to Fourier spectra and chaos theory, that have been used to model and analyze the fluctuations.

$\pi\mu\epsilon$ Conference

On April 15-16, St. John's University hosted their 27th annual Pi Mu Epsilon Conference in Collegeville, MN. Two Augsburg mathematics majors presented research results at the conference. Senior Andrew Held presented "Riding Along: A study in carpooling" and senior Dan Wolf presented "Reading the Medium; Inverse Scattering of Waves". For a list of all the student speakers, see <http://www.csbsju.edu/math/pme.html>. Math students Missy Larson and Chrissy Piram also attended the conference with mathematics faculty Su Dorée and Matt Haines. Pictures from the conference are on the back page of this issue of the Augarithms.

This year's invited speaker was Jennifer Quinn of Occidental College. She demonstrated marvelous combinatorial explanations of seemingly non-combinatorial mathematics. Check out her book "Proofs that Really Count". Read a review of the book at <http://www.maa.org/reviews/reallycount.html>

Pi Mu Epsilon is an honorary national mathematics society to promote mathematics scholarship among students. For more information see <http://www.pme-math.org>.

The Dynamics of Heart Rate Variability

Danny Kaplan
Assistant Professor of
Mathematics
Macalester College

Fluctuations in heart rate are easily measured and, in theory, provide a window into the ways the human cardiovascular control system functions in health and malfunctions in disease. The physiology of the system will be



Augarithms is available on-line at
ausburg.edu/math/augarithms/.
Click on the date you want to see.

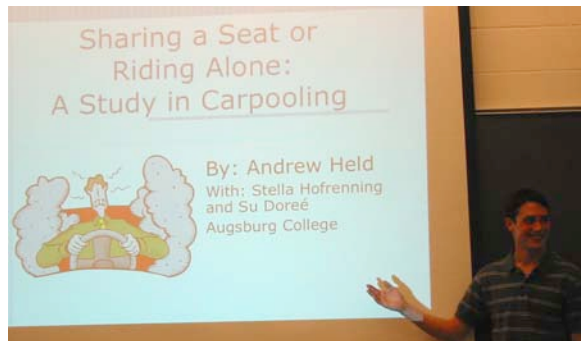
Augarithms

*The Bi-weekly Newsletter of
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Pi Mu Epsilon Conference Photos



Andrew presents his work on carpooling



Dan ponders deep thoughts



Chrissy, Su, Matt, Missy, Andrew, and Dan after a terrific conference

Unbounded and SPS Hosts *Study Break*

When: Tuesday, May 3,
7:00-8:00 p.m.

Where: Science 21

What: Study break with pizza, ice cream, pop, etc.

Who: YOU! All in need of a break!



Andrew points out some surprising results

HAVE A GOOD SUMMER
 Trevlig sommar
 Vises i efteråret
 Schöne ferien
 שׂוֹנֵה פֶּרְיָה
 וְאַקְזֵרֶיט
 Que pascen un buen
 Have a good one
 Bonne vacances
 SEE YOU IN THE FALL