

## Calculus in the Real World

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Mathematics and, in

particular, Calculus plays an important role in the experimentation and data collection done by chemists and physicists every day in applied industrial settings. Scientists draw on mathematics to present their data and provide rationale for their theories, significance and interpretations.

The colloquium today will introduce you to some of the analytical equipment used in the chemistry world at 3M. The mathematical mind of the software behind the analytical equipment proves to be an invaluable tool in the analysis of chemical structures, impurities, and any chemical residuals left behind after lab synthesis. The colloquium will also highlight the importance and significant use of the mathematical software, *Mathematica*.

## Final Mathematics Colloquia Fall 2004

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

- Sept. 15 Introduction to colloquium and math faculty, and  
Lynda Olson, Center for Service, Work, & Learning
- Sept. 29 Dan Wolf, student, Augsburg College
- Oct. 13 Kevin Anderson, Carlson Companies
- Oct. 27 Andy Mack, Trident Capital
- Nov. 10 Steve Fredlund, Thrivent Financial
- Dec. 1 Dr. Radka Turcajova, University of St. Thomas
- Dec. 15 Wendi Winkler and Bill Weaver, 3M**

*Mark your calendar . . .*

## Mathematics Colloquia Dates Spring 2005

The Augsburg Mathematics Colloquium Series brings speakers on campus approximately biweekly to share their experience using mathematics in applied or research settings. Junior and senior mathematics majors are expected to attend but all members of the Augsburg community (including alumni!) are always welcome. Attendees should be aware that speakers typically assume some knowledge of calculus and the first two years of college mathematics.

Mathematics colloquium talks are Wednesdays 3:40-4:40 p.m. in Science 108. Refreshments are provided. Colloquia will be presented on the following dates.

January 26, February 9, February 23, March 9,  
April 6, April 13, and April 27



Happy  
Holidays

See You  
in January!

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

### *Augarithms*

*The Bi-weekly Newsletter of  
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Seasons Greetings from some of the voices of Augsburg

*Vrolijk Kerstfeest* *Feliz Navidad*  
*Gott Nytt År* *Buon Natale*  
*Mutlu Yillar* *Bonne Année*  
*HAPPY NEW YEAR* *Merry Christmas*  
*Joyeux Noël*  
*חג שמח* *BAGA AYYAANA WAGGAA GEESSAN!!*  
*Arabaina tratin'ny*  
*NYOB ZOO XYOO TSHIAB* *Próspero Año Nuevo*  
*Yeni Yiliniz Kutlu Olsun*  
*Buon Capodanno* *Taom-baovao*  
*Fröliche Weinachten* *Haaskaa Joulua*

