

Mark your calendar . . .

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. Also, 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 Colloquium #7

Actuarial Modeling: Life in the Heels of an Actuary

Steve Fredlund, Actuary
Thrivent Financial

Insurance, finance, investment product development, mathematical modeling (not on the runway), risk and liability management are areas in which actuarial science

plays a key role in financial and insurance industries. Thrivent Financial is a faith-based membership organization located in the heart of Minneapolis. The mission of Thrivent is to improve the quality of life of its members, their families, and their communities by providing unparalleled solutions that focus on financial security, wellness and caring for others.

The colloquium talk will introduce you to Thrivent and to actuarial science at Thrivent — the mathematics involved, the educational training/skills required and the benefits that go along with following the actuarial vocational path. I'll provide specific examples of my work as an actuary in the Asset and Liability Management group and how my work interacts with and contributes to the overall work of Thrivent.

Puzzle 5: Dotted Notes

In music, adding a dot after a note increases the length by 50%. Take, for example, a whole note – a note whose duration is four beats. A whole note with dot (a dotted whole note) lasts 6 beats. How many beats long would a whole note with two dots be? Three dots?

Problem 5: Many more dots

How many beats long would an infinitely dotted whole note be?

Send your solutions (not just answers, please) to the editors at 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.

Thanks to David Wallace for providing a solution to Puzzle 4 and Problem 4. He used the fact that the sum of the integers from 1 to 40 is divisible by 4 but the sum of the integers from 1 to 41 is not.

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

Augarithms

*The Bi-weekly Newsletter of
the Department of
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Considering Majoring, Minoring or Teaching Mathematics?

Meet with an advisor in the Mathematics Department before registration!

Courses Offered Spring 2004-05 in the Mathematics Department:

MAT 146 Calculus II

MAT 163 Introductory Statistics

MAT 173 Math of Interest

MAT 252 Exploring Geometry

MAT 246 Linear Algebra

MAT 247 Modeling and Differential
Equations

MAT 324 Analysis



Free Graphing Calculators For Future Teachers

Join other Augsburg students in a workshop by Texas Instruments and receive a graphing calculator and view-screen for participating at no cost except the time to attend! This is a great opportunity to start building your classroom resources! Fifteen participants are needed to run the session. Convince your future teacher friends to sign up with you! Date TBD. Contact Prof. Tracy Bibelnicks, bibelnie@augsborg.edu.

Girls and Dinosaurs Looking for Help

Interested in helping girls explore careers in mathematics or science? Volunteer 8:00 a.m.-12:45 p.m. Saturday, November 13, at the *Eye to the Future Career Conference* at Augsburg! This is a great event where 4th-8th grade girls can explore career opportunities through hands on activities and discussions with professional women in mathematics, science, engineering and technology fields. Dr. Kristi Curry Rogers, Director of Paleontology for the Science Museum of Minnesota presents the keynote address. Come help make a difference in the lives of these girls by helping out the day of the event! **Contact Jeanine Gregoire, gregoire@augsborg.edu, 612-330-1551.**

For registration information and a list of workshops visit http://www.augsburg.edu/nasa_space_grant/ettf03.html

Visual Impact

Diane Pike, Augsburg Sociology Department, and Tracy Bibelnicks and Rebekah Dupont, Augsburg Mathematics Department, will share ideas of Edward Tufte, Professor Emeritus, Yale University, on December 3, 2004 at 4 p.m. in Lindell Library 301 as part of the Center for Teaching and Learning sponsored lecture series The Seminar. The Seminar is a gathering for faculty and staff to learn from members of the Augsburg community. Dr. Tufte has written three highly regarded books on presenting data and information visually. Pike, Bibelnicks and Dupont participated in Tufte's short course "Presenting Data and Information".

For more information about Tufte and his works, visit <http://www.edwardtufte.com/tufte/>



New editions to the department:
A new study table and a display case for mathematics magazines – the green chair remains!

Love and Math'matics, Love and Math'matics (go together like a horse and carriage)

Frank Sinatra, entertainer, or James D. Murray, Fellow of the Royal Society, which one is the real authority on relationships? The Institute for Mathematic and its Applications provides us with an opportunity to hear from James D. Murray as he presents "The Marriage Equation: A Practical Theory for Predicting Divorce and a Scientifically-Based Marital Therapy" as part of the IMA Math Matters public lecture series. The lecture is Thursday, Nov. 18, 7:00 p.m. Smith Hall 100, 207 Pleasant Street, University of Minnesota. The lecture is free and open to the public.