

SmallTalk

SmallTalk is an informal colloquium series on topics related to Mathematics and Computer Science. Talks are limited to 30 minutes. Refreshments provided by the Mount MAA and ACM Student Chapters. For the Spring 2009 semester, talks are **Fridays at 2:00 in Coad Science 125**.

Date	Speaker(s)	Title	Abstract
4/29/09	Artificial Intelligence Students	AI Project Demo Day	HELD IN COAD 117 The students from CSCI 449, Artificial Intelligence, will present their final projects in a poster session. Come chat with students and see what they've done!
4/17/09	Kelly VanLowe	Differentiated Instruction	We'll discuss the meaning of differentiated instruction and implications in the math classroom.
4/3/09	Erin Canning	The Effects of Online Quizzing in a Math Classroom	We will discuss technology in math classrooms and a research project investigating online quizzes.
3/27/09	Chris Jarvis	What Happens to Geometry on a Sphere?	In Geometry, what happens when you replace a plane with a sphere? This is a hands-on investigation with lines and polygons on a sphere.
3/20/09	Joaquin Rodriguez	Hierarchical Temporal Memory	How a replication of the structure and algorithmic properties of the neocortical region of the brain could lead to intelligent machines.
2/20/09	Matt Parantha,	The world's top	Our teams that competed

	Paul Metz, Haley Blevins, Chris Lewis, Megan Czajkowski, Nicole Shilling, Anita Bradley, Olivia Glaser, Kaitlyn Perry	model(ers)	in an international mathematics competition last week will be presenting their results.
2/13/09	Melanie Butler	Fair Game?	We will play a probability game and assess whether or not the game is fair.
1/30/09	Scott Weiss	Talking the Talk	In 1950, Alan Turing proposed what is not called the Turing Test. If a person has a conversation with a human and a computer and cannot tell who is who, then the computer is said to be intelligent. The Loebner Prize, established in 1990, implements this test. We will look at various winners of this contest (maybe even talk to them) and see what is needed to win.
12/12/08	Computer Science Majors	Senior Projects	Seniors majoring in computer science will present their senior projects.
11/21/08	Luca Petrelli	Can we cut a cake and make everyone happy?	The answer is yes. We'll show how to cut a cake between 2, 3 or n people, and make everyone "happy". In particular, we'll show how to use a lemma about triangulations (division of a big triangle into smaller triangles) to

			show this result for 3 people. We might even practice on a real cake....
11/07/08	Brian Heinold	When Simple Isn't So Simple	Even a very small set of simple rules can lead to extremely complex results. We'll look at some simple sets of rules for cellular automata and examine animations of their behavior. Whether you have seen cellular automata or not, there will be something new for you.
10/24/08	Fred Portier	Mount Virtual Lab	Fred will present the new Mount virtual lab. It is composed of two physical servers, Hal and Deephought, running the "hypervisor" VMware. These two servers host several virtual computers running Linux, Windows 2003 server, or other operating systems.
10/3/08	Matt Parantha	Sudoku Satisfaction	Matt will discuss solving SUDOKU-type puzzles as a Constraint Satisfaction Problem (CSP). Some problems in artificial intelligence are set up and solved as CSPs.
9/26/08	Kerri Benner	Risky Business	Kerri will talk about the Mathematics of Risk Assessment. This topic came up during her summer 2008 internship with the Office of Security and Incident Response for the Nuclear Regulatory

			Commission.
9/18/08	Alessandra Hayden and Haley Blevins	SMART Scholarship	Last year Haley Blevins, a Mount junior and Computer Science major, applied for and won a SMART Scholarship. The scholarship includes full tuition, a stipend, and job at a DoD facility. Stop by and hear how you can apply.