

**MAA MD-DC-VA Section  
Spring 2005 Meeting, April 1 and 2  
University of Virginia  
Charlottesville, Virginia  
(Program Updates Will Be Posted When Available)**

**Friday April 1, 2005:**

Time	Location	Event
3:00–4:30 pm	Clark 101	<b>Section Officers Meeting</b>
4:00–6:00 pm	Clark 107	<b>Workshop:</b> James Tanton, St. Mark's School <i>Accessible – but surprisingly sophisticated – Math Activities for Students, Clubs, and Research</i>
4:00–6:00 pm	Clark 102	<b>Student Social/Games Event</b>
6:00–7:00 pm	Courtyard by Marriott: 1201 W. Main Street	<b>Registration and Cocktails</b>
7:00–8:00 pm	Courtyard by Marriott: 1201 W. Main Street	<b>Banquet</b> <b>Welcoming Remarks:</b> Dr. Jeffrey Holt, Chair, Department of Statistics, University of Virginia
8:00–9:00 pm	Courtyard by Marriott: 1201 W. Main Street	<b>Invited Talk:</b> James Tanton <i>A Dozen Proofs that <math>1=2</math>: A Misguided Review of all of Mathematics</i>

**Saturday, April 2, 2005:** Events are in Cabell Hall and Wilson Hall, University of Virginia (Wilson adjoins Cabell via a 3<sup>rd</sup> floor walkway)

(\*\*) indicates a talk recommended for all students

(##) indicates a talk recommended for graduate students

**All Project NeXT events are in Cabell 338**

Time	Location	Event
8:00–noon	Cabell 331	<b>Registration (Refreshments at 8:30 am)</b>
8:00 am – 3 pm	Cabell 318	<b>Display of Mathematical Artwork by Artist Judith Townsend</b>
8:30 – 8:50 am		<b>Contributed Papers 1, Student Papers 1</b>
	Cabell 316	James V. Blowers, US Army Ret'd: (**) <i>Some results on the Hat-Guessing Game</i>
	Cabell 323	Jiashi Hou, Norfolk State University: (**) <i>Mathematical model for teaching business cycles</i>

	Cabell 324	Robert W. Jernigan, American University: (**) <i>Statistics Before Your Eyes: Photographs of Statistical Concepts</i>
	Cabell 330	Hongwei Chen, Christopher Newport University: (**) <i>On some trigonometric powers</i>
	Cabell 332	<b>Student Paper</b>
	Cabell 341	<b>Student Paper</b>
8:55 – 9:15 am		<b>Contributed Papers 2, Student Papers 2</b>
	Cabell 316	Matthew Burke, St. Mary's College of Maryland: (**) <i>Two-dimensional "Take and Break" Games</i>
	Cabell 319	Deborah Denvir, Randolph-Macon Women's College: (**) <i>Miquel's Theorem, a lovely but overlooked result in Euclidean geometry.</i>
	Cabell 323	Luca Petrelli, Mount St. Mary's University: (##) <i>Optimal Transport and Wasserstein Metric</i>
	Cabell 324	Howard Penn, United States Naval Academy: (**) <i>Which Major-League Ball Parks Are Homer-Friendly?</i>
	Cabell 330	Richard Hammack, Randolph-Macon College: (**) <i>A Visual Proof of the Alternating Series Test</i>
	Cabell 332	<b>Student Paper</b>
	Cabell 341	<b>Student Paper</b>
9:20 – 9:40 am		<b>Contributed Papers 3</b>
	Cabell 316	Greg Dresden, Washington & Lee University: (**) <i>Rings of Gaussian Integers</i>
	Cabell 319	Christopher Marron, Department of Defense: (**) <i>Title to be announced</i>
	Cabell 323	George DeRise, Thomas Nelson Community College: (**) <i>Topology in Physics</i>
	Cabell 324	Vonda K. Walsh, Lee S. Dewald, and L. Jane Randall, VMI: (**) <i>Peer-led Team Learning (PTL) in Finite Mathematics and in Introduction to Probability and Statistics at Virginia Military Institute</i>
9:20 – 10:20 am	Cabell 320	<b>Student Poster Session</b>
9:20 – 10:55 am		<b>COMAP Modeling Contest Presentations by Section Teams Receiving Outstanding or Meritorious Ratings</b>
9:20 – 9:40	Cabell 345	Joshua Blake, Justin Creasy, Nicholas Giffen, James Madison University (Meritorious Rating, coached by James Sochacki): (**) <i>Problem A: A Dam Disaster</i>
9:45 – 10:05	Cabell 345	Jonathan Giuffrida, Palmer Mebane, Maggie Walker Governor's School, Richmond VA (Outstanding Rating, coached by John Barnes): (**) <i>Problem C: Petroleum Armageddon</i>
10:10 – 10:30	Cabell 345	Yuan Rao, Angela Zhu, Maggie Walker Governor's School, Richmond VA (Meritorious Rating, coached by John Barnes): (**) <i>Problem C: The Petrification of Petrochemical Production</i>

10:35 – 10:55	Cabell 345	Robin Haskins and Nathaniel Givens, University of Richmond (Meritorious Rating, coached by Kathy Hoke): (**) <i>Last Exit before the Toll.</i>
10:15 – 10:45 am	Wilson 301	<b>Meeting of Departmental Liaisons:</b> <a href="#">Mary Kay Abbey, Montgomery College</a>
10:20 – 10:40 am		<b>Student Papers 3</b>
	Cabell 332	<b>Student Paper</b>
	Cabell 341	<b>Student Paper</b>
10:50 – 11:00 am	Wilson 301	<b>Welcoming Remarks:</b> <a href="#">George Hornberger, Associate Dean for the Sciences and Ernest H. Ern Professor of Environmental Sciences</a>
11:00 am – noon	Wilson 301	<b>Invited Address 1:</b> <a href="#">Adrian Rice, Randolph-Macon College.</a> <i>Everyone Makes Errors: A 19<sup>th</sup>-Century Mathematical Attempt to Prove the Existence of God</i>
Noon – 1:00 pm	Cabell 331	<b>LUNCH: Box lunches distributed in Cabell 331</b>
1:10 – 2:00 pm	Wilson 301	<b>Invited Address 2:</b> <a href="#">Harrison Straley IV, Wheaton College, Norton MA, and Sir Isaac Newton, late of Cambridge University.</a> <i>Isaac Newton</i>
2:10 – 2:40 pm	Wilson 301	<b>Meeting of the General Membership and Prize Session</b>
2:30 pm	Cabell 331	<b>Refreshments</b>
2:50 – 4:20 pm	Wilson 306	<b>WeBWorK Workshop:</b> <a href="#">Jeffrey Holt, University of Virginia</a>
2:50 – 3:10 pm		<b>Contributed Papers 4</b>
	Cabell 316	James Sochacki, James Madison University: (**) <i>Polynomial differential equations and periodic solutions</i>
	Cabell 319	Susan Goldstine, St. Mary's College of Maryland: (**) <i>Fortunatus's Purse</i>
	Cabell 323	Bill Wardlaw, United States Naval Academy: (**) <i>Good and Square Matrices are Invertible</i>
	Cabell 324	Dave Pruett, James Madison University: (**) <i>Motivating Calc III by Celestial Mechanics</i>
3:15 – 3:35 pm		<b>Contributed Papers 5</b>
	Cabell 316	Parviz Khalili, Christopher Newport University: (**) <i>The study of some second-order rational difference equations</i>
	Cabell 319	Leonard Van Wyk, James Madison University: (**) <i>k-Alternating Knots</i>
	Cabell 323	Laura Taalman, James Madison University: <i>Problem Zero: A simple way to encourage students to read mathematics</i>
	Cabell 324	Ram Subedi, Montgomery College—Takoma Park. <i>TechnoGenetics: Cloning Ti-83+/84/86 into your computer (OR, how to demonstrate TI calculator usage in classrooms without using view screens!)</i>