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

Friday April 1, 2005:

Time	Location	Event
4:00–6:00 pm	Clark 102	**Student Social/Games Event**
6:00–7:00 pm	Courtyard by Marriott: 1201 W. Main Street	**Registration and Cocktails**
7:00–8:00 pm	Courtyard by Marriott: 1201 W. Main Street	**Banquet** **Welcoming Remarks:** Dr. Jeffrey Holt, Chair, Department of Statistics, University of Virginia
8:00–9:00 pm	Courtyard by Marriott: 1201 W. Main Street	**Invited Talk:** James Tanton *A Dozen Proofs that 1=2: A Misguided Review of all of Mathematics*

Saturday, April 2, 2005:   Events are in Cabell Hall and Wilson Hall, University of Virginia
(Wilson adjoins Cabell via a 3rd 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	**Registration (Refreshments at 8:30 am)**
8:00 am – 3 pm	Cabell 318	**Display of Mathematical Artwork by Artist Judith Townsend**
8:30 – 8:50 am		**Student Papers 1**
	Cabell 332	Emily Wooge, Roanoke College: *Image Processing with Fourier Series and Wavelets*
	Cabell 341	Michael Naylor, Hood College: *Audio Compression and Linear Algebra*
8:30 – 8:50 am		**Contributed Papers 1**
	Cabell 316	James V. Blowers, US Army Ret'd: (**) *Some results on the Hat-Guessing Game*

	Cabell 323	Jiashi Hou, Norfolk State University: (**) *Mathematical model for teaching business cycles*
	Cabell 324	Robert W. Jernigan, American University: (**) *Statistics Before Your Eyes: Photographs of Statistical Concepts*
	Cabell 330	Hongwei Chen, Christopher Newport University: (**) *On some trigonometric powers*
8:55 – 9:15 am		**Student Papers 2**
	Cabell 332	Karen Jones, Hood College: *Highlights of U.S. Performance in 2003 TIMMS Assessment*
	Cabell 341	Andrew Bashelor, US Naval Academy: *Projective Conics and Excess Intersection*
8:55 – 9:15 am		**Contributed Papers 2**
	Cabell 316	Matthew Burke, St. Mary's College of Maryland: (**) *Two-dimensional "Take and Break" Games*
	Cabell 319	Deborah Denvir, Randolph-Macon Women's College: (**) *Miquel's Theorem, a lovely but overlooked result in Euclidean geometry.*
	Cabell 323	Luca Petrelli, Mount St. Mary's University: (##) *Optimal Transport and Wasserstein Metric*
	Cabell 324	Howard Penn, United States Naval Academy: (**) *Which Major-League Ball Parks Are Homer-Friendly?*
	Cabell 330	Richard Hammack, Randolph-Macon College: (**) *A Visual Proof of the Alternating Series Test*
9:20 – 10:20 am	Cabell 320	**Student Poster Session**
9:20 – 9:40 am		**Contributed Papers 3**
	Cabell 316	Greg Dresden, Washington & Lee University: (**) *Rings of Gaussian Integers*
	Cabell 319	Christopher Marron, Department of Defense: (**) *Title to be announced*
	Cabell 323	George DeRise, Thomas Nelson Community College: (**) *Topology in Physics*
	Cabell 324	Vonda K.Walsh, Lee S. Dewald, and L. Jane Randall, VMI: (**) *Peer-led Team Learning (PTL) in Finite Mathematics and in Introduction to Probability and Statistics at Virginia Military Institute*
9:20 – 10:55 am		**COMAP Modeling Contest Presentations by Section Teams Receiving Outstanding or Meritorious Ratings**
9:20 – 9:40	Cabell 345	Joshua Blake, Justin Creasy, Nicholas Giffen, James Madison University (Meritorious Rating, coached by James Sochacki): (**) *Problem A: A Dam Disaster*
9:45 – 10:05	Cabell 345	Jonathan Giuffrida, Palmer Mebane, Maggie Walker Governor's School, Richmond VA (Outstanding Rating, coached by John Barnes): (**) *Problem C:Petroleum Armageddon*
10:10 – 10:30	Cabell 345	Yuan Rao, Angela Zhu, Maggie Walker Governor's School, Richmond VA (Meritorious Rating, coached by John Barnes):

		(**) *Problem C: The Petrification of Petrochemical Production*
10:35 – 10:55	Cabell 345	Robin Haskins and Nathaniel Givens, University of Richmond (Meritorious Rating, coached by Kathy Hoke): (**) *Last Exit before the Toll.*
10:20 – 10:40 am		**Student Papers 3**
	Cabell 332	Sarah Gourlie, American University: *Graphical Studies of the Complex Geometric Series f(z)=sum from k to infinity of z^k*
	Cabell 341	Zachary Kurtz, Eastern Mennonite University: *A Two-Player Number Game: Finding the Winning Strategy*
10:50 – 11:00 am	Wilson 301	**Welcoming Remarks:** George Hornberger, Associate Dean for the Sciences and Ernest H. Ern Professor of Environmental Sciences
11:00 am – noon	Cabell 345	**Workshop with James Tanton:** *Weird Multiplication and Weird Ways to Multiply*
Noon – 1:00 pm	Cabell 331	**LUNCH: Box lunches distributed in Cabell 331**
1:10 – 2:00 pm	Wilson 301	**Invited Address 2:** Harrison Straley IV, Wheaton College, Norton MA, and Sir Isaac Newton, late of Cambridge University. *Isaac Newton*
2:10 – 3:00 pm	Cabell 345	**Panel Discussions**
3:00 pm	Cabell 331	**Refreshments**
3:15 – 3:35 pm	Wilson 301	**Prize Session and Wrap Up**