MAA MD-DC-VA Section
Fall 2005 Meeting, November 4 and 5
Montgomery College
Germantown, Maryland

Friday November 4, 2005: All events are in the High Technology and Science Center (HT).

Time	Room Number	Event
2:30 – 3:30 PM	406 HT	**Section Officers Meeting**
4:00 – 6:00 PM	137 HT	**Workshop by** Brigitte Servatius, Worcester Polytechnic Institute: *Bracing of square grids*
6:00 – 7:00 PM	216 HT	**Registration and Reception**
7:00 – 8:00 PM	216 HT	**Banquet (Welcoming Remarks:** Kathy Michaelian, Dean, Business, Science, Mathematics and Technology Division, Germantown Campus)
8:00 – 9:00 PM	216 HT	**Banquet Address:** Frank Farris, Santa Clara University *Equitability and the Gini index*

Saturday, November 5, 2005: All talks are in the High Technology and Science Center (HT). Lunch is in the Cafeteria, located on the ground floor of the Humanities and Social Sciences building (HS).

(**) indicates a talk recommended for all students

(\#\#) indicates a talk recommended for graduate students

All Section NExT events are held in 304 HT

Time	Room Number / Location	Event
8:00 – noon	216 HT	**Registration and Refreshments**
8:30 AM – 2 PM	216 HT	**Book Displays and Sale**
8:30–8:50 AM		**Contributed Papers 1**
	400 HT	Bob Hanson, James Madison University (**) *A space-filling irregular truncated octahedron*
	402 HT	Robert W. Jernigan, American University (**) *Statistics Before Your Eyes: Photographs of Statistical Concepts*
	403 HT	Ilhan M. Izmirli, American University (**) An elementary proof of the singularity of generalized Lucas matrices.

	404 HT	Paul Chi, Bowie State University, Bowie MD (**) *Toward a general framework for induction and recursion*
	406 HT	Irina Popovici, US Naval Academy (**) *On the stability of orbits in a two-dimensional model of the cardiac cell*
9:00 – 9:20 AM		**Contributed Papers 2**
	400 HT	Ralph H. Buchholz, DSTO, Fort Meade, MD 20755 (**) *A non-scatological exposition of cyclic rational area polygons*
	402 HT	Donald Joseph Gray Chiarella, Maryland Department of Transportation / State Highway Administration (**) *Maryland 2004 Traffic Safety Facts*
	403 HT	Chiru Bhattacharya, Randolph-Macon College *How 'non-abelian' are free groups?*
	404 HT	Susan Schwartz Wildstrom, Walt Whitman High School (**) *Mathematical Induction--Even a Child Can Do It!*
	406 HT	Abolghassem Miamee, Hampton University Title to be announced
9:20–9:40 AM		**BREAK TIME**
9:50–10:00 AM	Globe Hall HT	**Welcoming Remarks:** Sanjay Rai, Dean, Science, Engineering and Mathematics, Rockville Campus
10:00–10:45 AM	Globe Hall HT	**Meeting of the General Membership**
10:50–11:45 AM	Globe Hall HT	**Invited Address 1:** Catherine Bénéteau, Seton Hall University: *The Isoperimetric Problem*
11:55 –1:10 PM	HS ground floor	**LUNCH: Buffet Style, HS Cafeteria**
1:20–2:10 PM	Globe Hall HT	**Invited Address 2:** Brigitte Servatius, Worcester Polytechnic Institute: *Combinatorics catalogs Geometry - Geometry generates Combinatorics*
2:20 – 2:40 PM		**Contributed Papers 3**
	400 HT	Marina Vulis, Queensborough Community College (**) *The Game of Sudoku*
	402 HT	Archie W. Earl, Sr., Norfolk State University (**) *A High-Tech In-Service Graduate Math Course*
	403 HT	Arthur D. Grainger, Morgan State University *Ideals of Ultrafilters on the collection of finite subsets of an infinite set*
	404 HT	George Rublein, College of William and Mary (**) *Chemistry Applications in Beginning Calculus*
	406 HT	Cathy Furlong, Fairfax County Public Schools/ American University (**) *What Factors Predict the Amount of Overlap of Collectors of Herbaria?*

2:45 – 3:05 PM		**Contributed Papers 4**
	400 HT	Laura Taalman, James Madison University (**) *Sudoku Variations*
	402 HT	Jerome Dancis, University of Maryland (**) *Guided Discovery Learning for the Product to Powers Maxim*
	403 HT	Amit Trehan, Montgomery College, Takoma Park Campus (**) *Representations of p-adic groups*
	404 HT	J. Coughlin, Towson University (**) *Pricing of Options*
	406 HT	A. P. Warth, University of Maryland, College Park (**) *The Infinitely Small: Introduction to Infinitesimals*
3:10 – 3:30 PM		**Contributed Papers 5**
	400 HT	Karen S. Adams, Morgan State University (**) *Reproving Minkowski's Inequality as a Tool for Student Research*
	402 HT	Denny Gulick, University of Maryland (##) *Remediation for Calculus Students*
	403 HT	Ken W. Smith, Central Michigan University/University of Richmond *(**) Groups, rings and group rings -- Tools for combinatorial structures*
	404 HT	Dan Kalman, American University (**) *Envelopes, Ladders, and Couches: an old topic gives a new look to an old problem*
	406 HT	Bill Mitchell, Retired Scientists, Engineers & Technicians, Springfield VA (##) *Retired Scientists, Engineers & Technicians (ReSET)*