Spring 2008 Meeting of the MD/DC/VA Section of the MAA

Friday, April 4 at Eastern Mennonite University in Harrisonburg, Virginia:

All events are in the Seminary building; Martin chapel is within the Seminary building. Knitters may enjoy sitting at the designated Knitters' Table during the banquet.
Section NExT will meet in room 204 of the Seminary building.

Time	Event	
2:30 – 3:45	Room 103	**Section Officers Meeting**
4:00 – 6:00	Room 203	**Workshop:** *Math Meets Reality – Realizing Some Mathematical Ideas in Knitting* Carolyn Yackel, Mercer University
5:00 – 7:00	Outside Martin chapel	**Registration**
6:00 – 7:00	Outside Martin chapel	**Reception**
7:00 – 8:00	Martin chapel	**Welcoming Remarks:** Loren Swartzendruber, President of Eastern Mennonite University **Banquet Dinner** **Banquet Slideshow:** *Some Images of Mathematical Art* Elizabeth Theta Brown, James Madison University
8:00 – 9:00	Martin chapel	**Banquet Address:** *Mathemagics!* Art Benjamin, Harvey Mudd College

Saturday, April 5 at James Madison University in Harrisonburg, Virginia:

All events except for lunch are on the second floor of the HSS/ISAT building. Lunch will be held in the Festival cafeteria a short walk from HHS/ISAT.
All Section NExT events will be in ISAT 243 (connected to HHS second floor by walkway).

Time	Event	
8:00 – 5:00	HHS hallway	**Registration, Refreshments, and Book Sale** Second floor HHS hallway/foyer area
8:00 – 5:00	HHS hallway	**Art Exhibit:** *Organic Geometry* Judy Townsend, Advance Mills, Virginia
8:45 – 9:45	HHS 2301	**Welcoming Remarks:** Dr. A. Jerry Benson, Vice Provost for Science, Technology, Engineering, and Mathematics at James Madison University **Invited Address:** *Combinatorial Trigonometry (and a method to DIE for)* Art Benjamin, Harvey Mudd College

9:55 – 10:15	**Contributed Papers 1**	**Student Contributed Papers 1**
	HHS 2204 *Elliptic curves across the curriculum* Ezra Brown, Virginia Tech	HHS 2202 *Graphing Goldbach* Douglas Fordham, James Madison University
	HHS 2209 *Simple Lie and associative deep matrix algebras* Chris Kennedy, Christopher Newport University	HHS 2203 *What about the cubic?* Erin Casey, Randolph-Macon College
	HHS 2210 *Representing the projectively polynomial functions analytically within the classical algebra of formal power series* G. Edgar Parker, James Madison University	
10:20 – 10:40	**Contributed Papers 2**	**Student Contributed Papers 2**
	HHS 2204 *Mathematics and Democracy: A quantitative and political literacy course* Kira Hamman, Penn State Mont Alto	HHS 2202 *Bernstein inequality for subclasses of polynomials of degree 2* Andrea Sims, Virginia State University
	HHS 2209 *Mathematical Modeling: Monte-Carlo simulation* Ahlam Tannouri, Morgan State Univ.	HHS 2203 *Child's Play: A brief history of Fermat's last theorem* Kaitlin Long, Randolph-Macon College
	HHS 2210 *Analytic functions and intial value ODE's* James Sochacki, James Madison University	HHS 2208 COMAP TEAM *Ode to Sudoku* Jorge Bruno, Matthew DiGiosaffatte and Benjamin Leard, James Madison University
10:45 – 11:05	**Contributed Papers 3**	**Student Contributed Papers 3**
	HHS 2204 *Focus on National Meetings: Your opinion wanted* Betty Mayfield, Hood College	HHS 2202 *Bernstein inequality for self-reciprocal polynomials of degree 2* Mervin Woodlin, Virginia State University
	HHS 2209 *Non-commutative cryptography* Yesem Kurt, Randolph College	HHS 2203 *Rhetoric and Mathematics: Reviving the exploration of a transdisciplinary bridge* Brandon Strawn, James Madison University
	HHS 2210 *The Lagrange multiplier rule as seen by linear eyes* Robert Sachs, George Mason University	
10:30 – 11:55	Open hallway HHS/ISAT	**Student Poster Session:** Twenty student posters will be exhibited and judged. Please stop by and support our student poster presenters. Prizes will be awarded at the Prize Session at the end of the day.
11:10 – 11:55	HHS 2301	**Meeting of the General Membership**

12:00 – 1:15	Festival building	**LUNCH** A short walk from HHS/ISAT in the Festival conference rooms; see maps and directions at registration desk.	
1:20 – 1:40		**Contributed Papers 4**	**Student Contributed Papers 4**
		HHS 2204 *Self-similarity in origami crease patterns* Eve Torrence, Randolph-Macon College	HHS 2202 *LC Loops and quasigroups* Elizabeth Hargraves, St. Mary's College of Maryland
		HHS 2209 *Constant rank linear combinations of matrices* Daniel Vasiliu, Christopher Newport University	HHS 2203 Applied cryptography and steganography Jamey Szalay, James Madison University
		HHS 2210 *Uniqueness implies existence for various classes of boundary value problems* Aprillya Lanz, Virginia Military Institute	HHS 2208 *Minimizing the expected value of the variance of the X-interpcept in LS regression* Andrew Chang, James Madison University
1:45 – 2:05		**Contributed Papers 5**	**Student Contributed Papers 5**
		HHS 2204 *Beauty in Motion – Dynamic visualization with Mathematica* Bruce Torrence, Randolph-Macon College	HHS 2202 *Game Theory: Enumerating payoffs to determine the optimal course of action within role playing video games* Charles Tannouri, Johns Hopkins University
		HHS 2209 *On matrix representation of linear transformations* Parviz Khalili, Christopher Newport University	HHS 2203 *n-Paper-Scissors: rock-paper-scissors as vectors* Dan Simonsan, James Madison University
		HHS 2210 *Integral approximations to pi with nonnegative integrands* Stephen Lucas, James Madison University	HHS 2208 COMAP TEAM *Applied multivariate statistical methods for assessing and improving health care systems* Victoria Ellison, Allison Fusco and Jefferson Livermon, James Madison University
2:10 – 2:30		**Contributed Papers 6**	**Student Contributed Papers 6**
		HHS 2204 *Hardy, Littlewood and golf* Roland Minton, Roanoke College	HHS 2202 *Modular origami and the trefoil knot* Amy Winslow, Randolph-Macon College
		HHS 2208 *Computer-Assisted Visualization of Complex Functions with Stereo Pairs* Jack Pace, Southern Polytechnic State University (additional talks on next page)	HHS 2203 *Optimal Energy Allocation Strategy for Multiple Constrained Resources with Overlapping Generations* Deena Hannoun and Leslie Hindman, James Madison University

	HHS 2209 *Project Math QUEST: Classroom voting* *in collegiate mathematics courses* Ann Stewart, Hood College	
	HHS 2210 *A survey of mathematical art* E. T. Brown, James Madison University	
2:35 – 3:25	HHS 2301	**Student Jeopardy Competition:** Hosted by Bud Brown, Virginia Tech Questions by Gretchen Koch, Goucher College; Hasan Hamdan, James Madison University; and Eric Harley, Johns Hopkins University
3:30 – 4:30	HHS 2301	**Invited Address:** *The Geometries of Escher* Susan Goldstine, St. Mary's College of Maryland
4:35 – 4:50	HHS 2301	**General Prize Session and Closing Remarks**