MAA MD-DC-VA Section
Spring 2003 Meeting
April 11 and 12
Norfolk State University, Virginia

Friday April 11, 2003 All events are in Scott/Dozier Dining Hall

Registration and Cocktails: 5:30 – 7:00 PM

Banquet: 7:00 PM – 8:00 PM

Panel Discussion: 8 PM – 9 PM, Panel on the Education of and Career Opportunities
                             for Nontraditional Math Majors
Organizers: Elsa Schaefer and Stephanie Cawthorne, Marymount University

Socials for Students: 9 PM-

Saturday April 12, 2003 All events are in J. Hugo Madison Hall

Time	Location/Chair	Event
8:00 – noon	Hallways on First Floor	Registration and Refreshments
8:30 AM – 2:00 PM	Hallways on First Floor	Book Displays and Sale
8:30 AM –10:05 AM	106 Dr. G. Smith	**MCM Presentation**
8:30- 8:45	Dr. G. Smith	Maggie Walker Governor's School, VA, Problem A
8:50 – 9:05	Dr. G. Smith	James Madison University, VA, Problem A Sean Walsh, Andrew Werner, Rick Wiita
9:10 – 9:25	Dr. G. Smith	University of Richmond, VA, Problem B
9:30 – 9:45	Dr. G. Smith	Maggie Walker Governor's School, VA, Problem C
9:50 – 10:05	Dr. G. Smith	University of Virginia, VA, Problem C
8:30 – 8:50 AM		**Contributed papers 1**
	107 Dr. P. Agbakpe	Jennifer Webb, Hood College The Mathematician Who Sold his Soul to the Devil: Gerbert
	246 Dr. J. Hou	Martin Bartelt, Christopher Newport University Digital Filters and Uniform Approximation
	247 Dr. H. Baker	Bonita Saunders, National Institute of Standards and Technology 3D graphics on the World Wide Web: An Update of Visualizations for NIST Digital Library of Mathematical Functions
	125 Dr. E. Socolovsky	George DeRise, Thomas Nelson Community College "Monstrous Moonshine" Why is 196,884 approx=196,883?
8:55 – 9:15 AM		**Contributed papers 2**
	107 Dr. P. Agbakpe	Boyd Coan, Norfolk State University How to teach the Division Algorithm in Pre-Calculus Mathematics and Beyond
	247 Dr. H. Baker	Majid Masso, George Mason University A Statistical Geometry Approach to the Study of Protein Structure
	256 Dr. S. Moosavizadeh	James Sochacki, James Madison University Newton's Method as an Initial Value Ordinary Differential Equation with Picard's Method
	125 Dr. E. Socolovsky	Jonathan Stephenson, Virginia Wesleyan College Visualizing basins of attractions

9:20 – 9:40 AM		**Contributed papers 3**
	107 Dr. P. Agbakpe	Reza Sarhangi, Towson University Star Polygons in Geometry and Art, and the Geometer's Sketchpad
	246 Dr. J. Hou	William Wardlaw, U.S. Naval Academy Accumulation Points of the Set of Totient Ratios
	247 Dr. H. Baker	Guy T Hogan and Shadana Yates, Norfolk State University Automorphisms of Finite Groups
	256 Dr. S. Moosavizadeh	Paul Warne, James Madison University A Priori Error Estimates for Maclaurin Series Approximations to Solutions of Differential Systems
9:45 – 10:05 AM		**Contributed papers 4**
	107 Dr. P. Agbakpe	Laura Spielman, Virginia Tech The Mathematical Development of Prospective Elementary Teachers
	246 Dr. J. Hou	Parviz Khalili, Christopher Newport University Six ways to solve cubic equations
	247 Dr. H. Baker	Verne Leininger, Bridgewater College The Game of Oktagon: Linear Algebra Gone Bad
	125 Dr. E. Socolovsky	George Rublein, College of William and Mary Thermodynamics in beginning Multivariate Calculus
10:10 –10:40 AM	202 and 203	**Poster Session for Undergraduate students**
10:45 -10:55 AM	156	**Welcoming Remarks:** Dr. Elsie Barnes, Vice President for Academic Affairs and Dr. Larry Mattix, Associate Dean School of Science and Technology
11:00 - 11:55 AM	156	**Invited Address 1:** Edward Burger, Williams College How to Always Win at Limbo: "You can sum some of the series some of the time, and some of the series none of the time…but can you sum some of the series ALL of the time?

Noon – 1:00 PM	Ballroom A Godwin Student Center	Lunch
1:05- 1:20 PM	156	Prize distribution
1:25 –1:55 PM	156	Business Meeting
2:00- 2:55 PM	156	**Invited Address 2:** Ranjan Roy, Beloit College Binomial and Other Infinite Series: A Historical Perspective
3:10– 3:30 PM		**Contributed Papers V**
	107 Dr. P. Agbakpe	Dipa Choudhury, Loyola College Isotropic Vectors and Coneigenvalues
	246 Dr. J. Hou	Ezra Brown, Virginia Tech The Fabulous (11, 5, 2) Biplane
	247 Dr. H. Baker	G. Edgar Parker, James Madison University Power Series as Alternatives to Newton's Method
	256 Dr. G. Pfeiffer	Hongwei Chen, Christopher Newport University On a Trigonometric Sum- A case study for Undergraduate Research in Math
	125 Dr. G. Smith	Dan Kalman, American University Pythagonacci Family Reunion