MARYLAND–DISTRICT OF COLUMBIA–VIRGINIA

SECTION OF THE MAA

NEWSLETTER

THE MATHEMATICAL ASSOCIATION OF AMERICA
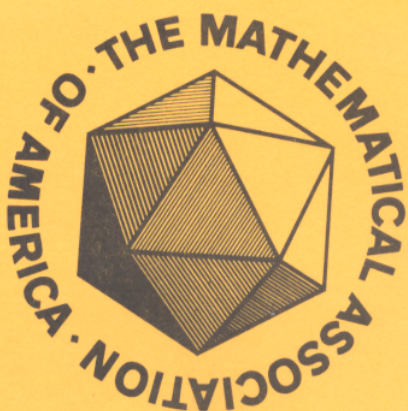
Section Meeting

November 10 & 11, 1989

Howard University, Washington, DC

Notes from the Chair

I hope that you have made plans to attend the Fall meeting of the Section at Howard University on November 10 - 11. Helen Christensen has once again put together an interesting program consisting of a minicourse by Dr. David Smith, invited lectures by Dr. Robert Devaney and Dr. Marcia Sward, as well as a variety of talks by our Section members. The details are elsewhere in the newsletter. Please observe the registration deadline (November 1) for the lunch and the banquet. We are expecting book displays by some of the publishing company representatives. As I write this we have a commitment from Scott Foresman, Little, Brown; we are hopeful that there will be additional representatives in attendance. As usual there will also be a display of MAA publications. Please visit the exhibits and show your support.

At our Spring meeting we will hold elections for three important posts, that of Vice-Chairman for Programs, Treasurer, and Chair-Elect. The treasurer keeps the books for the Section, collects registration and other fees and pays our bills. The Vice-Chairman for Programs is responsible for putting together the program for our Section meetings. The Chair-Elect is a four year term; one year as Chair-Elect, two years as Chair and one as Past-Chair. If anyone is interested in placing a name in nomination, please contact one of the officers or contact Bob Lewand (Goucher College) who is Chairman of the Nominating Committee.

Mark you calendars for April 28, 1990. On that day we will have our Spring meeting at Frostburg State University in beautiful western Maryland. We would especially like to have student papers presented at the meeting. Any student who presents a talk at a Section meeting receives a free one year membership in the MAA along with a choice of journal.

Any suggestions or comments are warmly encouraged. Please feel free to call or write me or any of the officers. The addresses and phone numbers can be found at the end of the newsletter.

John Milcetich

Report of the Board of Governor's Meeting
August 6, 1989
by Howard Lewis Penn

The meeting started at 8:30 a.m. and lasted until 4:45 p.m. During this time, every single vote was unanimous, so you can tell just how exciting the meeting was. Of interest to the section was the confirmation of the award to John Smith for outstanding contributions to the section. This award is presented to a member of our section once every 5 years. The presentation will be at the MAA business meeting during the National meeting in January. If you are in Louisville for the meeting, be sure to attend the business meeting and cheer (or boo) when John receives the award. Martha Siegel from Towson State and one of the main speakers at our upcoming section meeting was appointed Editor of Mathematics Magazine despite her request that I vote against her.

One item that will be of interest to some of our members was the vote to authorize the Executive and Finance Committee to negotiate with the AMS to have joint summer meetings in odd numbered years. This vote was made with regret by the Board. The AMS has for several years expressed a desire to eliminate summer meetings because the attendance is so low and both organizations lose money. The vote does not necessarily mean that there will be no summer meetings in even numbered years. The executive and Finance Committee is looking into the possibility of holding joint summer meetings with another organization.

Right before lunch, the Board broke up into small groups in the hope that this would generate discussion on various topics. My group choose to discuss the fact the the MAA journals do not provide enough in the way of "State of the profession" type articles. In fact, it was felt that the best source for this type of article was the AMS Notices. This sentiment was also present in two of the reports to the Board. Both the Committee on Minority Representation and the Ad Hoc Committee on Publications stated that the MAA Journals should have more articles of this type. During the general discussion on this topic, there was much support of this idea. However, it was also felt that each journal editor should have complete control of the contents of that journal. If you have any thoughts on this topic, let me know.
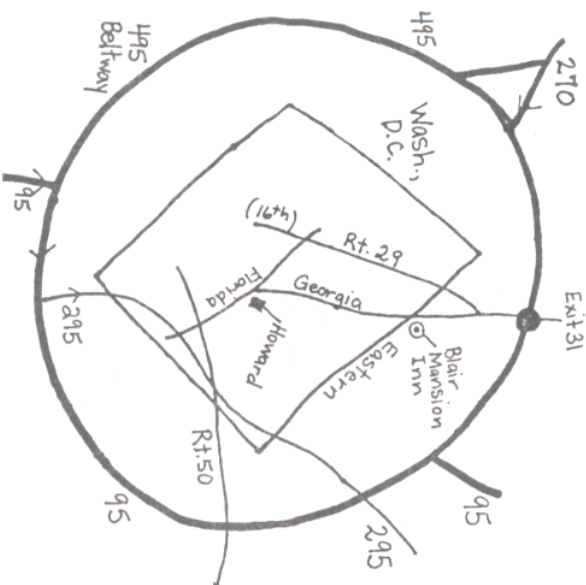
* * Directions to Howard University * *

From the North and West: Take 495 to Georgia Ave., exit #31 and follow Georgia Ave. south. Howard is about 4.5 miles south of DC - MD line (formed in part by Eastern Ave.)

From the South: Take 95 north to Washington beltway. Stay on 95 going east and north to 295 north. Take 295 north to route 50 west. Rt. 50 to Florida Ave. (north or west) to Georgia. Go north on Georgia Ave. to Howard's campus, almost immediately on your right.

From the East: See directions from the south, starting at Rt. 50.

The Blair Mansion Inn is at the intersection of Georgia and Eastern Ave. The address is 7711 Eastern Ave., Silver Spring, MD. (301)588-1688. Additional parking at Montgomery College off of Takoma Ave.

Howard University is located in Washington, D.C. about 3 miles from the U.S. Capitol. The Gallery Place Metro station connects to Metro Bus No. 70 which passes by the campus. The Brookland Metro Station by the Catholic University is about one mile and a half. There is no bus shuttle.

Fall Meeting - November 10 and 11, 1989

A block of rooms has been reserved at the Howard Inn on campus for Friday and saturday nights. The rate is $62 for a single room per night and $72 per night double occupancy. Call 1-(202)-462-5400 to make reservations. Mention that you are attending the MAA Fall Meeting when you call. Space is guaranteed until October 10. Following is a list of other hotels that are within 5 miles of Howard University.

Lodgings - Hotels

Holiday Inn	Days Inn	Holiday Inn Central	Ramada Inn Central
1-301589-0800	1-301-588-4400	1-202-483-2000	1-202-462-7777
5 miles	4¼ miles	2 miles	2 miles
Metro Bus #70	Betro Bus #70	$99.29 Single	$89.29 Single
$75.90 Single	$62.15 Single	$129.27 Double	$100.29 Double
$81.40 Double	$66.55		

Holiday Inn	Econo Lodge	Days Inn	Holiday Inn Central	Ramada Inn Central
1-301589-0800	1-301-565-3444	1-301-588-4400	1-202-483-2000	1-202-462-7777
5 miles	4¼ miles	4¼ miles	2 miles	2 miles
Metro Bus #70	Metro Bus #70	Betro Bus #70	$99.29 Single	$89.29 Single
$75.90 Single	$51.65 Single	$62.15 Single	$129.27 Double	$100.29 Double
$81.40 Double	$62.65 Double	$66.55		

MATHEMATICAL ASSOCIATION OF AMERICA
MARYLAND/DISTRICT OF COLUMBIA/VIRGINIA
FALL MEETING, NOVEMBER 10-11, 1989
HOWARD UNIVERSITY

FRIDAY, NOVEMBER 10:

MINICOURSE, 3:00 - 6:00:
LOCKE HALL, ROOM 105
PROF. DAVID A. SMITH, DUKE UNIVERSITY
"THE ROLE OF WRITING IN CALCULUS"

BANQUET, 7:00 P.M., PRECEDED BY RECEPTION
BLAIR MANSION INN
INVITED SPEAKER:
PROF. ROBERT DEVANEY, BOSTON UNIVERSITY
"CHAOS, FRACTALS, AND DYNAMICS:
COMPUTER EXPERIMENTS IN MATHEMATICS"

SATURDAY, NOVEMBER 11:
8:00-11:00 A.M. REGISTRATION
8:40 A.M. WELCOMING REMARKS

9:00 A.M.   Alexander Bathula, Montgomery College, Rockville
            "The Number e - Its Form and Uses"
            Calculus

            Robert A. Hermann, USNA
            "How You Can Benefit from the USNA Infinitesimal
            Modeling Project"
            Applied Math/Math Education

            G. Edgar Parker, James Madison University
            "Yet Another Modeling Course"
            Applied Math/Math Education

            Robert S. Sery
            "Finding Prime-Rich Quadratic Equations from a
            Special Array of the Odd Integers"
            Elementary Number Theory

9:30 A.M.   James P. Coughlan, Towson State University
            "Entropy and Cross Entropy"
            Probability

            Jeff Hakim, American University
            "Another Pascal's Triangle"
            Algebra/Number Theory

            Howard Penn & Craig Bailey, USNA
            "Computer-Generated Spyrographs"
            Computer Applications

10:00 A.M. Henry Berger, USDA Graduate School, DC
            "Time-Varying, Nonlinear Waves in Non-uniform Media
            - An Exact, Analytical, Closed Form Solution"
            Non-linear Partial Differential Equations

            Stephen D. Casey, American University
            "Pareto-Levy Distributions and Fractal Sets: Theory
            and Applications"
            Fractals, Dynamic Systems

            Carl Thomas Moore, Morgan State University
            "The Exploration of Unit Fractions"
            History of Mathematics

            Hanna Sandler, American University
            "Intersections of Hyperbolic Geodesics"
            Geometry

10:30 A.M. Chris Allgyer, Mountain Empire Community College
            "Chaos in the Classroom"
            Algebra & Pre-Calculus/Honors High School

            James Buchanan & Peter Turner, USNA
            "A Teaching Package for Numerical Analysis"
            Computer Applications

            Jeanne Draper, Student, Virginia Commonwealth
            University
            "In Search of Idempotents"
            Algebra

            John Hays, Naval Research Laboratory
            "Elementary Derivation of Clifford Algebra
            Algebra

11:00 - MAA BUSINESS MEETING

12:00 - LUNCHEON
INVITED SPEAKER: MARCIA P. SWARD
EXECUTIVE DIRECTOR,
MATHEMATICAL ASSOCIATION OF AMERICA
"CHALLENGES OF THE 90'S"

2:00 P.M.   Gregory Alexander, Graduate Student, American
            University
            "Snapshots of a Space-Filling Curve"
            Analysis

            Archie Earl, Christopher Newport College
            "Control Systems & Cybernetics: Some Basic Concepts"
            Cybernetics

            Robert Hanson, James Madison University
            "Proving the Impossible"
            Math Education

            Peggy Aldrich Kidwell & Paul Ceruzzi
            National Museum of American History
            "Smithsonian Landmarks in the History of Digital
            Computing"
            History of Computing

Guest Speakers

PROFESSOR ROBERT L. DEVANEY
BOSTON UNIVERSITY

A graduate of Holy Cross College, who received his Ph.D. from the University of California at Berkeley, Professor Robert Devaney has been on the Mathematics faculty at Boston University since 1980, chairing the department from 1983 to 1986. Author of almost 50 publications, his most recently-published book bears the name of his talk for our meeting, "Chaos, Fractals, and Dynamics: Computer Experiments in Mathematics."

PROFESSOR DAVID A. SMITH
DUKE UNIVERSITY

Currently the Co-Director of Project CALC (Calculus as a Laboratory Course) at Duke University, Professor David Smith received his Bachelor's degree from Trinity College and his Ph.D. from Yale. At the Joint Meetings of the AMS/MAA in Phoenix, Professor Smith and a colleague, George Gopen, presented a popular minicourse, "Writing in Mathematics Courses", of which his presentation here is a more restricted version. He is also the author of the Saunders text, Interface: Calculus and the Computer.

PROFESSOR MARCIA P. SWARD
MATHEMATICAL ASSOCIATION OF AMERICA

Newly-appointed Executive Director of the Mathematical Association of America, Professor Sward is a Summa cum laude graduate of Vassar College, and received her masters and doctoral degrees from the University of Illinois. After several years at Trinity College in Washington, DC, she began her professional career as Associate Director of the MAA, followed by four years as Director of the National Research Council's Mathematical Sciences Education Board.

Ferrum College: New hire: Daxin Wu (Ph.D. Ohio Univ.)

Montgomery College, Rockville: New hire: K.C. Liu and Pamela Pospisil

Montgomery College, Takoma Park: New hire: Sofei Fang, (Ph.D., Univ. of Pennsylvania); Promoted: Jim Schwanebeck to Associate Professor

Mount Saint Mary's College: New hire: Fred Portier (Ph.D., Clemson, Univ. SC)

Prince Georges Community College: New hires: Gladys Whitehead and Joanne Weinberg

Roanoke College: New hires: Michael Keenan (Ph.D., Penn State) and Jan Minton (M.S., Clemson); Tenured: Jeffrey Spielman; Courses: A new general elective for liberal arts added which emphasises modeling and contains a writing component.

Send your news items to: John August, Editor.

The Maryland-District of Columbia-Virginia Section of the MAA is pleased to announce that Professor John Smith will receive a MAA Certificate of Meritorious Service to honor his many contributions to the MAA at both the national and local levels. This award will be presented to Dr. Smith at the 1990 winter meeting of the MAA to be held in Louisville.

SPRING MEETING
April 28, 1990
Frostburg State University, Frostburg, MD
* * John M. Smith to Receive Awared * *

John M. Smith has been a member of the Mathematical Association of America since 1962. He has served the Maryland-District of Columbia-Virginia Section as Secretary (1972-76), Vice-Chairman for Programs (1976-78), Chairman Elect (1978-79), Newletter Editor (1978-79), Chairman (1979-81), Past Chairman (1981-82), and Governor (1983-86). He has also served the Association as a member of the Committee on Sections (1985-present), and as a member of the Program Committee for the Salt Lake City, Atlanta, Phoenix, Boulder, and Louisville meetings. He is also a member of the American Mathematical Society, the National Council of Teachers of Mathematics, the Virginia Council of Teachers of Mathematics, and the Fairfax County Association of Mathematics Teachers, and has served on a number of committees for these organizations.

Professor Smith has been a member of the faculty of George Mason University since 1966, and has previously taught at Georgetown University and the University of Maryland. He holds a B.S. degree from the University of Richmond, a M.A. and a Ph.D. from the University of Maryland.

Professor Smith has also been active in his community, Vienna, VA, where he has been an active member and officer of several PTA's, the chairman of a Boy Scout Troop Committee for the past eight years, a Cub Scout leader, and an active member of his church. He and his wife Judy have been married for 30 years and have four children.

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Harrisonburg, VA 22807
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REGISTRATION FORM

Registration for Fall Meeting   @$ 2.00 _____

Banquet and Luncheon Details

The MAA Fall Meeting Banquet has been planned for Friday evening at Blair Mansion Inn. There will also be a box lunch prepared by Blair Mansion Inn for Saturday. Reservations for the Banquet and/or Lunch must be made with Dr. David Schedler by **November 1, 1989.**

Banquet Reservation

Buffet   @$18.55 _____
Beef Tenderloin Tips, Seafood Newberg,
Egg Plant Parmesan, Two Vegetables,
Assorted Salad, Tea or Coffee, Dessert

Box-Lunch Reservation   @$ 8.00 _____

Choice of (How many each?)

Roast Beef   _____
Italian Cold Cut Sub   _____
Turkey Sandwich   _____
Ham and Cheese   _____
with Appropriate Salad, Fruit, Soda

Minicourse Registration   @$20.00 _____

Name _____

Address _____
         _____

                                          Total _____

Make checks payable to MAA and send to:
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