



MARYLAND - DISTRICT OF COLUMBIA
VIRGINIA SECTION
MAA
NEWSLETTER

Vol. 3, No. 2

Edited by Howard Penn

February, 1981

SPRING MEETING ANNOUNCEMENT

The annual spring meeting of the Maryland-District of Columbia-Virginia section of the Mathematical Association of America will be held on

Saturday, April 11, 1981

at

The College of William and Mary
Williamsburg, Virginia

Much of the program will be structured about a variety topics of interest to students, faculty, and non-academic mathematicians. Complementing our traditional contributed paper session will be discussions of mathematics education in two-year colleges, as well as a special session of student presentations jointly sponsored by Pi Mu Epsilon, University of Richmond chapter. Included in the former are talks on teaching technical and developmental mathematics, computer-assisted instruction, computer-usage in the classroom, and an informal discussion of 'math labs'. A concurrent session will be dedicated to papers by graduate students of The George Washington University on 'real world' applications of mathematics. The latter should be of great interest to faculty considering a 'Claremont' type program as these student projects were completed for a client in the D. C. area and in partial fulfillment of the degree of M.S. (Operations Research). Finally, our invited speaker will be Dr. Marcia Sward, the recently appointed Associate Executive Director of the Mathematical Association of America; she will speak on applying mathematics to traffic safety problems and will be available to discuss current and future activities of the M.A.A.

CALL FOR PAPERS

Contributed papers oriented toward mathematical research, education, and modeling are invited. Of particular interest are:

- o presentations by students,

as well as, papers on:

- a mathematics education at two-year colleges,
- b 'real world' applications of mathematics, and
- c 'Claremont' type mathematical modeling courses.

While papers in the former category need not be original, the topic should be of interest to other students. A total of thirty minutes will be allotted to both the presentation and audience discussion of each paper; overhead projectors and blackboards will be provided. Those interested in submitting a paper should send their name, address, business phone number, professional affiliation, and an abstract of not more than 100 words to

Dr. Patrick Hayes
Division of Federal Reserve Bank Operations
Federal Reserve Board
Washington, D. C. 20551

by

March 6, 1981.

If more papers are received than can be selected, preference will be given to early postmarks and new contributors. Everyone submitting a talk will be notified by March 20, 1981 of the program chairman's decision.

FIRST TWO-DAY MEETING A SUCCESS

The fall meeting held November 14 and 15 at Goucher College was a resounding success. Drs. Smith and Schmeelk remarked that it was the first two-day meeting that our section has held and also the meeting with the largest attendance. Approximately 130 people registered at the meeting with about 85 of these on Friday. The Friday Banquet and Cash Bar were well received. The Banquet speaker was Dr. Richard McCamy from Carnegie-Mellon University. He spoke on the Applied Mathematics Program at his University. A questionnaire on the subject of two-day meetings was distributed.

The survey results regarding a two-day fall meeting are as follows:
(33 questionnaires were returned)

- | | | |
|--|--------|-------|
| 1) Do you like a two-day meeting? | 25 yes | 6 no |
| 2) Do you like a Friday night banquet? | 21 yes | 10 no |
| 3) Do you want an attempt made for group rates for an overnight accommodation? | 24 yes | 6 no |

The officers also wish to hear comments from those members who did not attend the meetings. If you wish to comment on the subject of "one" versus "two-day" meetings, send your comments to Dr. Schmeelk.

OFFICERS AND THE ELECTION

The current officers are:

Chairman:	Dr. John M. Smith George Mason University
Chairman Elect:	Dr. John Schmeelk Virginia Commonwealth University
Vice Chairman (Programs):	Dr. Patrick Hayes Federal Reserve System
Vice Chairman (Membership):	Dr. Howard Penn U. S. Naval Academy
Secretary:	Dr. John R. Hanson James Madison University
Treasurer:	Dr. Arthur Charlesworth University of Richmond
Governor:	Dr. Ronald Davis Northern Virginia Community College
Chairman of High School Math Contest:	Professor Edward D. Bender J. Sargeant Reynolds Community College
Chairman of Summer Workshop:	Dr. E. A. Fusaro Salisbury State College

At the spring meeting an election will be held to fill the position of Vice Chairman for Membership. The nominating committee consists of:

Professor Hugh Easler - Chairman
College of William and Mary

Professor Ed Sereno
Prince Georges Community College

Mr. Ernest Mabrey
U. S. Department of Energy

If you wish to nominate someone for this position, or volunteer, you may contact either Professor Easler or Dr. Smith.

SUMMER WORKSHOPS

The MD-DC-VA Section of the MAA will sponsor two workshops at Salisbury State College on the Eastern Shore of Maryland, as follows:

Dr. H. T. Odum, Research Professor at the University of Florida, and E. C. Odum, Instructor at Santa Fe Community College. Dr. & Mrs. Odum have dedicated their careers to understanding the energy basis and theoretical representation of environmental systems. The Odums will use their energy systems language, a synthesis of energetics & mathematics to study systems of energy, economics, the environment, and public policy.

- MON Energy systems, diagramming, maximum power principle, micro-computer simulation.
- TUE Hierarchy, basis patterns of systems, energy principles and constraints.
- WED Systems - natural and human. Economics and public policy. Alternate energy strategies.
- THU Ecosystems, embodied energy, energy analysis, environmental evaluation, regional planning.
- FRI Energy systems language as an introduction to mathematics. Teaching examples from many fields.

COMBINATORIAL PROBLEM-SOLVING

8-12 JUNE 1981

Professor Alan C. Tucker, Chairman of the Department of Applied Mathematics & Statistics at SUNY, Stony Brook. He has a B.A. from Harvard and a Ph.D. from Stanford. His research has been in pure and applied combinatorial mathematics, including combinatorial algorithms. He is currently chairman of the MAA Panel on a General Math Science Program, which is revising the MAA math major in the direction of a math sciences major.

- MON General counting methods for arrangements and selections.
- TUE Generating functions and inclusion-exclusion problems.
- WED Graph modeling.
- THU Tree analysis and network algorithms.
- FRI Some theory - Polya's formula and finitely progressive games.

The total cost is \$150 per workshop, including meals and rooms (double occupancy: add \$25 for a single room). There is a deposit of \$75 per workshop, refundable until April 24, 1981. Deposits may be sent to Dr. B. A. Fusaro, Dept. Math Sciences, SSC, Salisbury, MD 21801.

A MESSAGE FROM OUR CHAIRMAN

The fall 1980 meeting, which was our trial two-day meeting, was a big success and we anticipate having more two-day meetings in the future. Our spring meeting had already been planned as a one-day meeting and must remain one-day. This is an important meeting which includes the election of an officer and Governor Davis will be reporting on the national meeting in San

Francisco. I hope to see all of you in Williamsburg at the College of William and Mary on April 11, 1981.

John M. Smith

A MESSAGE FROM THE CHAIRMAN-ELECT

Congratulations to the membership of the MD-DC-VA section of MAA. Your enthusiasm and eager participation made the fall-meeting at Goucher College an overwhelming success. It was the largest registration for a single meeting in recent history. As a result of the success of the meeting and the survey taken at the meeting, the same kind of format will be used for the 1981 fall-meeting at George Washington University on November 13-14. Let us all continue the initiated enthusiasm and make the William and Mary meeting a success. See all of you in Williamsburg on April 11.

John Schmaelk

TREASURER'S REPORT

This report covers the period from May 30, 1980 to January 31, 1981.

May 30, 1980	Balance from previous treasurer	\$1469.68	
Jun 30, 1980	Interest	7.20	
Sep 22, 1980	Fall meeting mailing one		\$ 62.44
Sep 27, 1980	Interest	20.81	
Oct 24, 1980	Fall meeting mailing two		63.60
Nov 16, 1980	Mimeograph supplies for fall mailings		35.00
Nov 16, 1980	Lodging for main speaker		14.00
Nov 16, 1980	Fall meeting registration	212.00	
Nov 16, 1980	Book company display fees	60.00	
Nov 17, 1980	Dinner for main speaker		7.25
Nov 21, 1980	Travel expense for main speaker		95.00
Dec 27, 1980	Interest	20.55	
	TOTALS	\$1790.24	\$277.29
Jan 31, 1981	BALANCE	<u>\$1512.95</u>	

Respectfully submitted
Arthur Charlesworth, Treasurer
MD-DC-VA Section MAA

NEWSLETTER

I wish to thank the following people for their contributions to this newsletter:

Dr. John M. Smith
Dr. John Schmeck
Dr. Patrick Hayes
Dr. John R. Hanson
Dr. Arthur Charlesworth
Dr. Ronald M. Davis
Dr. B. A. Fusaro

It is not known at this time who will be editing this newsletter next year. If you have any items for the fall newsletter, you may send them to me and I will forward them to the new editor.

Dr. Edward Penn

REPORT OF THE SECTION GOVERNOR

As your representative to the Board of Governors of the MAA, I am pleased to report that the Association is alive, quite active and healthy (or least as healthy as possible in these times of double digit inflation). The Association has a balanced budget, a growing membership (18,595) and in relation to its scientific counterparts is providing its services for less dues than most.

Yet our Association is also expanding. Our journal publications with a combined subscription of 34,456 per issue will soon be joined by FOCUS, the MAA newsletter. It will be published 5 times a year and will serve as a lively and informal tabloid for the exchange of information for the Association.

We have also added an Associate Executive Director, our own Marcia Sward, to the the national staff. Already on staff for six months, she has taken an active leadership role in the Association as the national office continues to review how to provide services to the membership.

Our section is the largest of 29 with a membership of 1,390. Yet, that doesn't preclude us from having to try harder. The maintenance of the strength of the section and of the Association lies totally in the commitment and energy of us as individual members. It is our responsibility to encourage the participation of colleagues and students at our colleges, universities, industries, businesses, or government agencies. I hope each of you will assume this commitment and invite others to join you in sharing in our sectional and national activities.

Ron Davis
Northern Virginia Community College