



Maryland-District of Columbia-Virginia
Section of the
Mathematical Association of America

Newsletter, Spring 1997

Vol. 18, No. 2 Final

February 1997

Spring Meeting College of William and Mary April 18-19

The College of William and Mary, one of the nation's premier state-assisted liberal arts universities, believes that excellence in teaching is the key to unlocking intellectual and personal possibilities for students. Dedicated to this philosophy and committed to limited enrollment, the College provides high-quality undergraduate, graduate and professional education that prepares students to make significant contributions to the Commonwealth of Virginia and the nation. In recognition, the media have included William and Mary among the nation's prestigious "Public Ivys," and ranked it first among state institutions in terms of commitment to teaching.

The college was chartered on February 8, 1693, by King William III and Queen Mary II as the second college in the American colonies. It severed formal ties with Britain in 1776, and became state-supported in 1906 and coeducational in 1918, then achieved modern university status in 1967. The national honor society, Phi Beta Kappa and the honor code system of conduct were founded at William and Mary.

Located in historic Williamsburg, Va., approximately 150 miles south of Washington, D.C., midway between Richmond and Norfolk, Va., the campus consists of approximately 1,200 acres including picturesque Lake Matoaka and the College Woods. Adjacent to Colonial Williamsburg, the Ancient Campus section is restored to 18th-century appearance.

Spring Meeting April 18-19 Williamsburg VA

Our spring meeting in Williamsburg will have a full program featuring

- a workshop on the TI-92 graphing calculator
- Dr. Brian Rosen as our featured Friday night speaker
- Dr. Thomas Banchoff as our featured Saturday speaker
- a student talks
- contributed paper sessions
- COMAP/PUTNAM Winners presentations
- the MAA business meeting
- elections for secretary and newsletter editor
- and more!

Details inside.

GOVERNOR'S REPORT

It seems as though more of my time than usual was dedicated to committee meetings at the San Diego joint mathematics meetings, so this report is perhaps a bit skimpy. My apologies, but as I'm sure you also know all too well, committees are simultaneously boons and banes.

(1) First, the MAA Board of Governors meeting. The MAA ran a nontrivial deficit for 1996. The exact figures are not determined yet. It is by no means deadly to the MAA, but certainly has resulted in much closer scrutiny for the 1997 budget as well as some restructuring. You may have noted that fulfillment activities (e.g., book purchases and membership) have been outsourced. This and other fiscally prudent actions should bring 1997 very close to the break-even point.

(1a) I pass along a gentle reminder that the MAA is "flying solo" for the Atlanta Mathfest this coming August 2 - 4 in Atlanta. Please make every effort to support it by your attendance.

(2) The meetings themselves had almost 4K attendees when all categories were included. I'm positive that if anyone had a bad time there, the weather was not to blame. I was reminded by friends more familiar with the San Diego area that it is almost an island of perfect year-round weather: my second exposure to San Diego cannot contradict this.

(3) I attended the Math Reviews reception, and picked up the following tidbits (which are probably only useful at a mathematics wine and cheese affair). Use them at your own peril.

- There are currently about 1.4 million items in the Math Reviews holdings, and this is increasing by about 4K items per month.

- Only one individual had papers reviewed in volume 1, number 1 (1940) as well as in the most recent volume. Who is the author? (Answer at the end.)

- There are presently almost 12K reviewers from 95 countries.

- Math Reviews received 16K e-mails in 1996. (That's about 44 per day. And we thought our in-boxes were overloaded...)

- Finally, Math Reviews receives about 3.3 tons of material per year.

(4) Neal Lane (NSF) and Rep. George Brown (House Science Committee) spoke together but separately on the future of financing for the sciences and mathematics. Lane said we may see a 20% (twenty, no typo) reduction in federal R& D funding for science and mathematics over the next 5 - 10 years. He called it a "high-risk experiment that we've never undertaken before."

(4a) Brown noted that the science and mathematics community needs a larger political presence and awareness, even reaching to items such as Medicare, since (his words) "that's where the money will come from." Brown also said that the budget can't be balanced on the one-sixth of it that's discretionary, implying that entitlements will have to be addressed. He added that pushing responsibility for entitlements to the states will create a squeeze there, noting that education is a big slice of the state pie. R& D will get hurt by such actions, too. In other words, addressing the entitlement problem will not create a windfall for mathematics. Brown referred to The Third International Mathematics and Science Study (TIMSS), and I also heard President Clinton refer to it in his State of the Union address. You can get some information on it on the Web at <http://ustimss.msu.edu>

I look forward to seeing many of you at William and Mary, and in Atlanta.

cheers,

j. kev

jkev@romulus.ncsc.mil

Oh, and the individual whose papers were reviewed in Math Reviews in both 1940 and 1996 was, of course, Paul Erdos. Three papers in each. A gentle soul, a tremendous loss.

Election Slate

We will be electing a new secretary and newsletter editor at the spring meeting. The current list of candidates is:

Secretary: Elizabeth Teles, NSF

Newsletter Editor: Parviz Khalili, Christopher Newport University

As prescribed by the By-Laws, "There shall be provisions for additional nominations from the floor."

Notes from the Chair

San Diego is a wonderful place for a meeting. The conference center is right on the water, where a boat show was going on at the same time. So we all did a bit of dreaming about what our retirement would be.

On a more serious note, the math meetings were wonderful. The enthusiasm of the speakers was only outdone by their grasp of their topic and their pedagogy. The statistics sections were crammed with easily implemented ideas for developing a sense of statistical topics. Another session offered ideas about dealing with administrators now that mathematicians need more than just a few boxes of chalk.

Just walking through the book displays, I picked up ideas for my courses. Hopefully the displays at our meetings will improve thanks to the efforts of Kathleen Shannon. She was actively recruiting the publishers.

Remember to be thinking about the upcoming election. Sister Helen Christensen (HCC@Loyola.edu) is the chair of the nominating committee. We will be electing a new secretary (3 year term) and newsletter editor (2 year term) at the business meeting at William and Mary. Please consider nominating yourself or a colleague.

Mary Kay
Section Chair

(Editor's Note: This is reprinted from the preliminary newsletter, so everyone can read it.)

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12 February 1997

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Supplies 79.72

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John G. Milcetic Memorial Student Achievement Award Fund

Balance — 17 August 1996 \$1,044.00

Contributions 45.50

Balance — 112 February 1997 \$1,089.50

Jon W. Scott
Treasurer

Technology Short Course

The Math Dept at Montgomery College - Rockville is hosting one of the Ohio State/Demana-Waits/Texas Instruments technology workshops this summer, June 20-22. The workshop we're having is "CAS/CALC", employing the TI-92 to the teaching of calculus. Interested people who want more information can contact Pat Dalton at (301)279-5210 or cpdalton@erols.com.

MINUTES OF THE FALL MEETING (1996)

- 1.) Mary Kay called the meeting to order.
- 2.) The minutes as printed in the newsletter were corrected.
- 3.) The treasurer made his report and the solvency of the section was estimated. According to Jon Scott, the balance in the treasury should be about \$5370. This does not include \$1093 in the John Milcetic Scholarship Fund.
- 4.) Genevieve Knight was recognized for being selected as Elkins Professor. It is good to see our section's members being recognized for their contribution.
- 5.) Nominations for the Distinguished Teacher Award were solicited.
- 6.) The MAA liaisons from the various departments were recognized.
- 7.) The President noted that the students who presented papers at the meetings were awarded free membership in the Association for a year.
- 8.) At the meeting of last spring, the winner of the Putnam Award, David Bradley, presented a paper on his work.
- 9.) Mary Kay reported that, at the meeting last spring, the award for the best student papers went to Joshua Pepper, Gary Gatson, and Reginald Lavend. At the fall meeting at Hood, a poster session was held and was very successful.
- 10.) The spring meeting will be held in William & Mary in Williamsburg, Virginia, on the 18th and 19th of April. Tentatively the meeting for next fall has been scheduled for Mt. St. Mary's and for the following spring at Virginia State. More definite information will be available in forthcoming newsletters.
- 11.) There was a discussion of web updates. John Nolan is currently in charge of the web page and any updates should be forwarded to him.
- 12.) There was a discussion of newsletter reform and it was decided to leave it up to the officers to decide whether to continue to publish the entire program of talks to be presented. It seems there is not enough time to allow the program chairs to decide on which papers

to allow to be presented and still get the information to the newsletter editor in time for the printer's deadline. The officers agreed to come to a decision on the matter and present it to the spring meeting. Any one with important points to make on the subject should be prepared to attend the spring meeting and present such points then.

13.) Nominations are currently being solicited for the posts of secretary (3 year term) and newsletter editor (2 year term).

14.) Jack Biggs was asked about summer short courses and he replied that he has no plans to offer any at the current time, although he might be persuaded to do so if there was sufficient interest. Sr. Helen Christensen said that we should test to see if there was any interest before proceeding. If anyone is interested in taking or giving a short course, (s)he should get in touch with the officers as soon as possible.

15.) Genevieve Knight is offering a program on preparation of beginning teachers with a focus on technology. The program will be run in the spring term and those interested should probably have already applied, but we mention it here on the off-chance that there may still be some openings. Contact Genevieve at Coppin State Math Department.

16.) Barbara Humpton of Lockheed-Martin Federal Systems, Gaithersburg, MD is looking for math students who are interested in computers. She visits campus colleges and universities recruiting students who are interested in software development and document imaging. If you know students who are interested, refer them to her. (Her phone number is (301) 240-6053.)

17.) Texas Instruments donated a graphing calculator was raffled off as a door prize and won by Richard Maruszewski.

18.) The secretary was directed to draft a letter of thanks to Hood College for their fine work in hosting the meeting.

Jim Coughlin, Secretary

Student News

Only one department sent information about their students, **Hood College**: Five Hood College students attended the national meetings in San Diego and had a wonderful time participating in the student workshop, attending talks, hanging out in the student hospitality suite and meeting other students. Senior **Izzy Kyle** gave a talk on "MAA Student Chapters: a student view." (I hope there will be more student news next year!)

Lodging for Spring Meeting

Twenty-five rooms have been reserved for us at the Hampton Inn, located in central Williamsburg. They have an indoor pool, a sauna, a whirlpool, and HBO in the rooms. The cost per room (single or double) is \$75 (plus tax) with free deluxe continental breakfast, mention the "math group" when you call. To get there from I-64, take exit 238 (old exit 56), Route 143 East/Williamsburg. Turn right onto Route 143, then another right onto Route 132. At the stop light, take a right onto Route 60. Go for about a mile, and it's on the right.

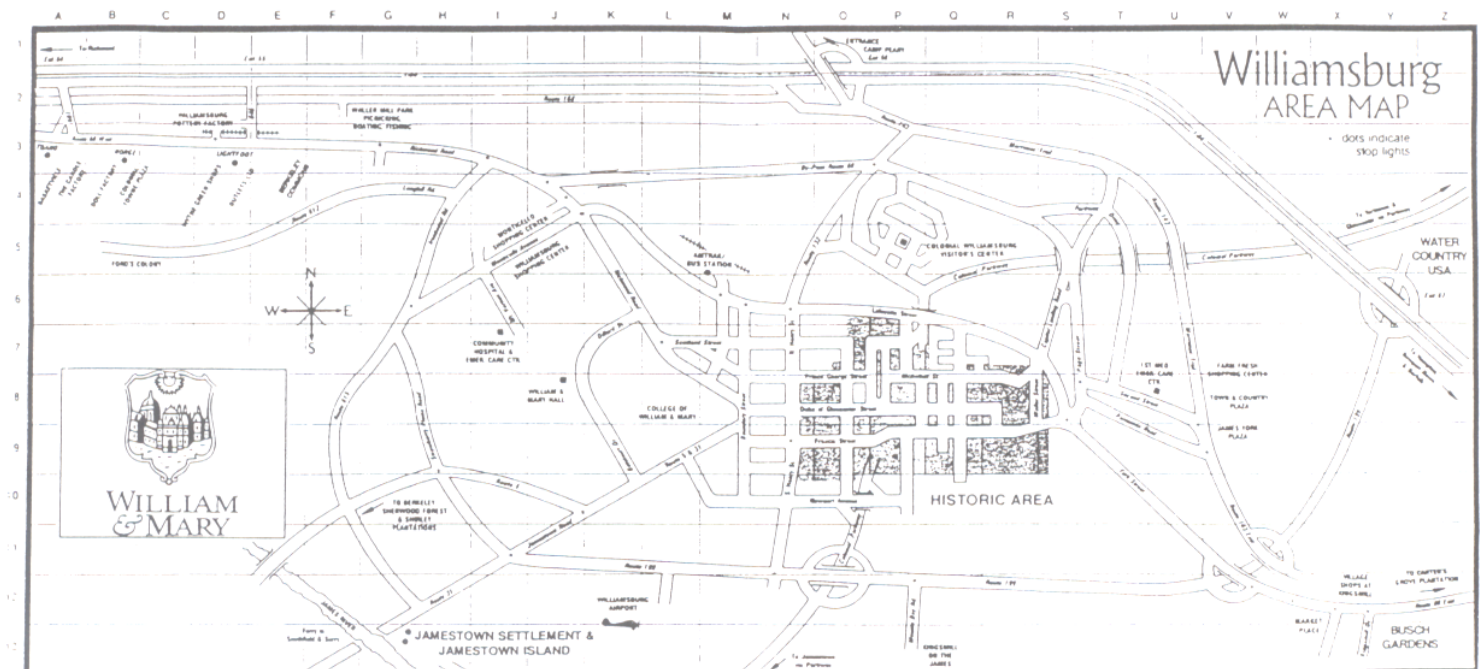
The Hampton Inn
201 Bypass Road
Williamsburg, VA 23815
(757) 220-0880
FAX: (757) 229-7175

Directions to the University Center at William and Mary

- o Take Interstate 64 to exit 238 (old exit 56), Route 143 East/Williamsburg, College of William and Mary.
- o Proceed .5 miles down Rt. 143 and make a **right** at the **second** stop light onto Rt. 132 South.
- o Follow Rt. 132 (Henry St.) for 2 miles and at the second stop light, make a right onto Lafayette Street.
- o Travel on Lafayette Street and at the second stop light, make a left onto Armistead Street.
- o Travel Armistead Street for about $\frac{1}{2}$ mile until it ends at Richmond Road. Make a right onto Richmond Road.
- o The College is on your left. Proceed along Richmond Road until you come to the first stop light, and make a left at that light. The College's football stadium will be on your right.
- o The University Center is located behind the football stadium.

Parking for Friday's dinner will be available in the parking lot behind the Campus Center. For Saturday, any space is available for parking except metered spaces, handicapped spaces, and spaces designated for a specific individual.

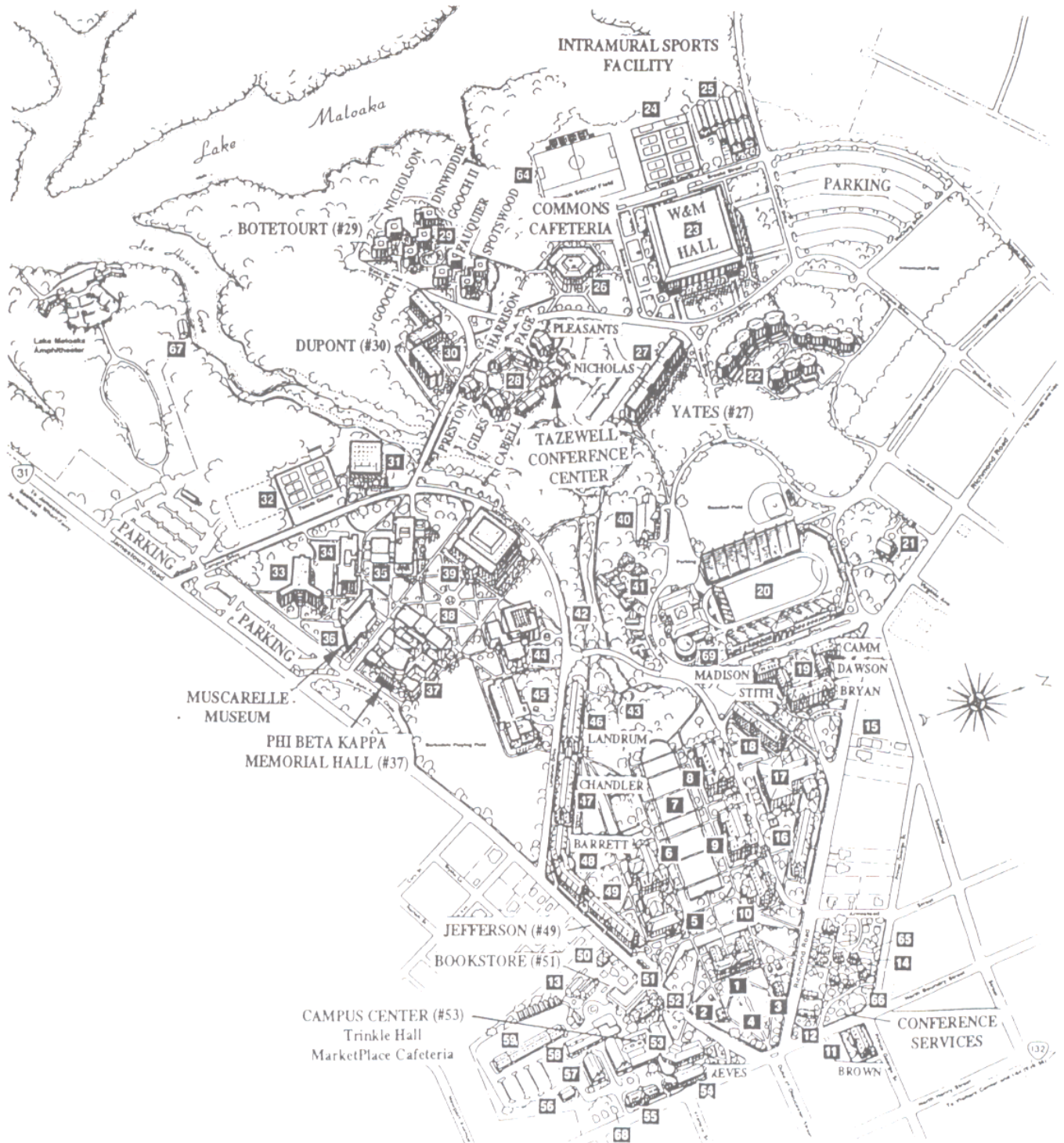
Please consult the map entitled "Conference Services" for further information. If you get lost, call (757) 221-4084.





CONFERENCE SERVICES

The College of William and Mary



Maryland/DC/Virginia Section of the MAA
Fall 1997 Meeting: November 21-22
Mount Saint Mary's College

Early Call for Papers

Presenter: _____

Institution/Organization: _____

Address: _____

Phone number: _____ day _____ evening

E-mail: _____

Title of paper: _____

Content area: _____

Equipment needed: _____

Status: ☐ Faculty
 ☐ Professional
 ☐ Student: ☐ Undergraduate ☐ Graduate

Please attach a two- or three-sentence description of your proposed talk. Please also attach a brief *vita* so that we may introduce you properly.

Deadline: September 6 1997

Send to Vice-Chair for Programs:

Dr. Carol G. Crawford
U. S. Naval Academy
Dept. of Mathematics
Annapolis MD 21402
cgc@nadn.navy.mil
FAX: 410-293-4883

1997 Summer Technology Short Courses for College Mathematics Faculty

The Ohio State University College Short Course Program organized by Bert Waits and Frank Demana is offering 49 short courses at colleges and universities throughout the United States. Each short course participant will learn "hands-on" how to use appropriate hand-held computer technology – either the TI-83, TI-85/86, and/or the TI-92 to enhance the teaching and learning of college and university mathematics. Mathematics reform materials consistent with the calculus reform movement, MAA recommendations, and the AMATYC Crossroads in Mathematics will be the focus of appropriate short courses. Applications, problem solving, pedagogy, and testing issues will be addressed in all short courses. The Calculator-Based Laboratory (CBL) system and/or CBR will be used to collect data to help develop mathematical concepts.

The College Short Course Program is endorsed by the American Mathematical Association of Two-Year Colleges. We are also expecting to offer graduate credit for participants in the courses through Portland State University in Oregon.

Courses offered:

DEV Mathematics in the foundation (developmental) using the TI-83 and CBL

(This includes pre-algebra, beginning algebra, intermediate algebra, and data analysis.)

ALGT College algebra, trigonometry, and data analysis using the TI-83 and CBL with an introduction to the TI-92

PCALC-CALC Precalculus and calculus topics using the TI-83 or TI-85/86 and CBL with an introduction to the TI-92

CAS-CALC Calculus enhanced with computer symbolic algebra using the TI-92 and CBL

The Ohio State College Short Course Program is a division of the Teachers Teaching with Technology Program. For more information, please contact Bert Waits and Frank Demana through Ed Laughbaum at (614) 292-7223, or jelaughba@math.ohio-state.edu, or The Ohio State University, Department of Mathematics, 231 West 18th Avenue, Columbus, OH 43210. The web page with Program information can be found at:

<http://www.math.ohio-state.edu/Entities/Organizations/TCSC/index.html>

Below is a list of the courses offered in Maryland and Pennsylvania.

Course:	ALGT	CAS-CALC	CAS-CALC
Dates:	7/14-18	5/19-23	6/2-6
College:	Comm. College of Allegheny Cty.	LaSalle University	Indiana Univ. of Penn.
State:	PA	PA	PA
Host:	Rob Farinelli	Charles Hofmann	Rebecca Stoudt
Telephone:	(412) 469-6229	(215) 951-1136	(412) 357-4763
Instructor:	Debbie Crocker	Charles Hofmann	Dennis Pence
Course:	CAS-CALC	CAS-CALC	CAS-CALC
Dates:	6/20-22	6/23-25	6/26-28
College:	Montgomery College	Univ. of Maryland College Park	Kutztown University
State:	MD	MD	PA
Host:	Patricia Dalton	James Fey	Paul Ache, III
Telephone:	(301) 279-5210	(301) 405-3151	(610) 683-4400
Instructor:	Doug Child	Doug Child	Mary Margaret Shoaf
Course:	CAS-CALC	CAS-CALC	CAS-CALC
Dates:	7/7-11	7/14-18	7/28-8/1
College:	Prince George's CC	Messiah College	Montgomery County CC
State:	MD	PA	PA
Host:	Gladys Whitehead	Marvin Brubaker	Roseanne Hofmann
Telephone:	(301) 322-0461	(717) 766-2511 ex 3790	(215) 641-6405
Instructor:	Charles & Roseanne Hofmann	Carl Leinbach	Roseanne Hofmann
Course:	DEV	PCALC-CALC83	PCALC-CALC83
Dates:	?/??	7/21-25	10/9-11
College:	University of Pittsburgh	LaSalle University	Harrisburg Area Comm. College
State:	PA	PA	PA
Host:	Susan Harkins	Charles Hofmann	Oiyin Pauline Chow
Telephone:	(412) 624-6852	(215) 951-1136	(717) 780-2504
Instructor:	Eddie Warren	Charles Hofmann	Mary Ann Connors

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SPRING MEETING REGISTRATION FORM

Please complete and mail to **Jon Scott, Department of Mathematics, Montgomery College, Takoma Park, MD 20912** by April 4th.

Name(s): _____

(indicate if guest) _____

Affiliation (for nametag) _____

Address: _____

Phone number: _____ e-mail address _____

Are you a member of the MAA? _____

Meeting registration: _____ regular (\$10) _____ student(\$5)

_____ MAA Workshop registrations (TI-92) @ \$10.00

Space is limited for this workshop, so please register early.

Contributions to the John G. Milcetic Memorial Student Achievement Award

_____ Tickets for Friday night buffet @ \$22.00

Dinner includes mixed greens with choice of dressing, vegetarian lasagna, breast of chicken almonidine or marsala, totellini salad with fresh vegetables, peas forestiere (a saute with smoked bacon), garlic bread and fresh rolls, Boston cream pie, and chocolate cake with bourbon whipped cream.

_____ Tickets for Saturday's lunch @ \$4.50

Box lunch consists of a fresh fruit, a cookie, soda, and choose one:

_____ turkey sandwich on white,

_____ turkey sandwich on rye

_____ ham sandwich on white

_____ ham sandwich on rye

_____ beef sandwich on white

_____ beef sandwich on rye.

Note: Students who **pre-register** have lunch included in their registration fee.

TOTAL

Please make checks payable to MAA.

Computer Science Position

The Mathematics and Computer Science Department of **Mount St. Mary's College** recently added a major in computer science, and as a result is hiring a new faculty member. It is a full-time tenure track Assistant Professor position, starting in August 1997.

The greatest needs are: computer graphics,
 artificial intelligence,
 networks, and
 communications.

The duties are: teaching undergraduate computer science courses (4-3 load),
 professional activity,
 advising,
 course development, and
 service to the campus community.

Teaching excellence is required. The successful candidate will have a Ph. D. in Computer Science (preferred) or a Ph. D. in Mathematical Sciences. If interested, send curriculum vitae and three letters of recommendation to:

Computer Science Search
Math & Computer Science
Mount St. Mary's College
Emmitsburg MD 21727.

Letters should address scholarship and teaching excellence.

Thirteenth Annual Allegheny Mountain Section Summer Short Course

Dates: June 16-20, 1997

Location: Allegheny College, Meadville, Pennsylvania

Principal Lecturer: Dr. Peter R. Massopust, Sandia National Laboratories, New Mexico

Abstract: This course focuses on the construction and properties of scaling vectors, the associated multiwavelets, and their application to image compression, signal processing, and differential equations. Several different constructions of scaling vectors and multiwavelets are presented, including the Daubechies family which is based on a single scaling function and a single wavelet, spline wavelets, and the DGHM element which consists of piecewise fractal functions.

Biographical Sketch: Dr. Peter R. Massopust received his Ph. D. in 1986 from Georgia Tech under the direction of Michael F. Barnsley. He has published more than thirty papers on fractal geometry, wavelets, partial differential equations and related topics, including a bestselling research monograph entitled "Fractal Functions, Fractal Surfaces, and Wavelets." Dr. Massopust has been an invited speaker at several national and international conferences and workshops. His areas of specialization are fractal geometry, wavelet theory, harmonic analysis, and partial differential equations. He is currently a research mathematician at Sandia National Laboratories in Albuquerque, New Mexico.

The course will once again be held at Allegheny College. Course registration will be \$150 and room and board will be \$130 for a total of \$280.

For further information and an application, contact:

George Bradley
Department of Mathematics and Computer Science
Duquesne University
Pittsburgh, PA 15282
Phone: (412) 396-5115
email: BRADLEY@DUQ3.CC.DUQ.EDU

Maryland/DC/Virginia Section of the MAA
Fall 1997 Meeting: November 21–22
Mount Saint Mary's College

Early Call for Papers

Presenter: _____

Institution/Organization: _____

Address: _____

Phone number: _____ day _____ evening

E-mail: _____

Title of paper: _____

Content area: _____

Equipment needed: _____

Status: ☐ Faculty
☐ Professional
☐ Student: ☐ Undergraduate ☐ Graduate

Please attach a two- or three-sentence description of your proposed talk. Please also attach a brief *vita* so that we may introduce you properly.

Deadline: September 6 1997

Send to Vice-Chair for Programs:

Dr. Carol G. Crawford
U. S. Naval Academy
Dept. of Mathematics
Annapolis MD 21402
cgc@nadn.navy.mil
FAX: 410-293-4883

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Instructor:	Debbie Crocker	Charles Hofmann	Dennis Pence
Course:	CAS-CALC	CAS-CALC	CAS-CALC
Dates:	6/20-22	6/23-25	6/26-28
College:	Montgomery College	Univ. of Maryland College Park	Kutztown University
State:	MD	MD	PA
Host:	Patricia Dalton	James Fey	Paul Ache, III
Telephone:	(301) 279-5210	(301) 405-3151	(610) 683-4400
Instructor:	Doug Child	Doug Child	Mary Margaret Shoaf
Course:	CAS-CALC	CAS-CALC	CAS-CALC
Dates:	7/7-11	7/14-18	7/28-8/1
College:	Prince George's CC	Messiah College	Montgomery County CC
State:	MD	PA	PA
Host:	Gladys Whitehead	Marvin Brubaker	Roseanne Hofmann
Telephone:	(301) 322-0461	(717) 766-2511 ex 3790	(215) 641-6405
Instructor:	Charles & Roseanne Hofmann	Carl Leinbach	Roseanne Hofmann
Course:	DEV	PCALC-CALC83	PCALC-CALC83
Dates:	?/??	7/21-25	10/9-11
College:	University of Pittsburgh	LaSalle University	Harrisburg Area Comm. College
State:	PA	PA	PA
Host:	Susan Harkins	Charles Hofmann	Oiyin Pauline Chow
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Instructor:	Eddie Warren	Charles Hofmann	Mary Ann Connors

MD-DC-VA Liaisons

The MAA has revised and expanded the department representatives program. The representatives are now called liaisons and the MAA hopes that this new program will bring a greater degree of contact between the national organization, the sections, and the individual members.

Below is a list of our section's liaisons. Please bring any errors, omissions, changes, or additions to the attention of Eve Torrence (etorrenc@rmc.edu). Also, if your institution or an institution with which you have contact does not have a liaison, any effort to recruit a liaison for that institution will be rewarded handsomely. Please note, for example, that the University of Virginia does not have a liaison.

Olusola Akinyele, Bowie State Univ.	Hugh Easler, Coll. of William & Mary	Robert Lewand, Goucher College	Carla Schultes, Salisbury State University
Donald J. Albers, MAA	Joseph Erdeky, Prince Georges Comm. Coll.	Larry Liddle, Wytheville Comm. College	Jon Scott, Montgomery Coll.-Takoma Park
David Albig, Radford University	Donald Ethington, Averett College	Steve Martin, Richard Bland Coll.	Millard Showalter, Eastern Mennonite Univ.
Chris Allgyer, Mtn. Empire Comm. College	Michael Evans, Washington and Lee Univ.	Jim Martino, Johns Hopkins Univ.	Jeffrey Spielman, Roanoke College
Thomas Armstrong, Univ. of MD-Balt.	Michael Failla, Harford Comm. College	Betty Mayfield, Hood College	Daniele Struppa, George Mason Univ.
John August, Mt. St. Mary's College	Thomas Fanny, Virginia Wesleyan Coll.	Peter Mercer, St. Marys College of MD	Marcia Sward, MAA
V. S. Bakhshi, Virginia State Univ.	Clark Fleming, VA Highlands Comm. Coll.	Claude Moore, Danville Comm. College	Eve Torrence, Randolph-Macon College
Jon Bell, Piedmont VA Comm. College	Thomas Garrett, Tidewater Comm. College	J. Richard Morris, VA Commonwealth Univ.	John Tweed, Old Dominion Univ.
Paul Bender, Bridgewater College	Nilotpal Ghosh, Catonsville Comm. College	S. Brent Morris, National Security Agency	Daniel Ullman, George Washington Univ.
John Biggs, Frostburg State Univ.	Gordon Gregg, Montgomery College	John Nolan, American University	Susan Wagner, Northern VA Comm. Coll.
Brenda Bloomgarden, Chesapeake College	Bob Hanson, James Madison Univ.	Robert Olin, VA Polytech Inst. & State Univ.	John Wierman, Johns Hopkins University
Eddie Boyd, Jr., Univ. of MD-Eastern Shore	Jane Heckler, MAA	David Pelland, Hampden-Sydney Coll.	Glyn Wooldridge, Liberty University
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Maureen Callanan, MAA	Vanessa Job, Marymount Univ.	George Piegari, VA Military Inst.	
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Caren Diefenderfer, Hollins College	Martin Kalmar, Frederick Comm. Coll.	William Schildknecht, Univ. of MD-Univ. Coll.	

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