



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

Newsletter, Fall 1999

Vol. 21, No. 1 Final

October 1999

Fall Meeting
Loyola College in Maryland
November 12-13

Loyola College in Maryland, established in 1852, with nine Jesuit faculty and ninety-five students, was the first college in the United States to bear the name of St. Ignatius Loyola. Today the College has over 200 full-time faculty and approximately 6,000 undergraduate and graduate students representing two-thirds of the United States and numerous foreign countries. Seventy percent of undergraduate students live on campus.

Having grown thus from modest beginnings, Loyola is now considered a medium-sized comprehensive university. In 1988 the Sellinger School of Business and Management, which offers a wide variety of undergraduate and masters degrees, was accredited by the American Assembly of Collegiate Schools of Business. In accordance with the College's goal of serving the community, Loyola has Ph.D. and Master's programs in Pastoral Counseling and in Psychology, and Master's programs in Education, Engineering, Modern Studies, Montessori Education, Physician Assistant, and Speech-Language Pathology. Approximately one half of the College's students are graduate students.

While the current faculty is mostly lay and draws its members from diverse religious backgrounds, there remains a significant Jesuit and Sister of Mercy presence at Loyola. The College's educational mission states that a Loyola graduate should be able to think critically and analytically, to reason mathematically, and to understand the methodology of disciplines in both the natural and social sciences.

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Meeting Highlights !!

Our Fall meeting in Baltimore will have a full program featuring:

- Dr. George Nelson, Director of the AAAS Project 2061, as our featured Friday night speaker
- Dr. Rodica Simion of George Washington University as our featured Saturday morning speaker
- Dr. Ezra (Bud) Brown of Virginia Tech as our featured Saturday afternoon speaker
- Dr. Stephan D. Casey and Dr. Dan K. Bell of American University as the Saturday workshop hosts
- Contributed paper sessions
- The MAA business meeting
- And more!

Details inside.

Complete information about the meeting, including registration forms, can be found on the web at:

<http://www.cas.american.edu/~maa/fall99>

(continued from page 1)

Yet, the unifying objective of the core curriculum extends beyond the provision for fundamental knowledge to the setting of the foundations of intellectual, moral, and spiritual excellence. A liberal education in the Jesuit and Mercy traditions seeks, ultimately, to provide a rigorous intellectual basis for the development of moral convictions and for a life of continuous learning and action in service of those convictions.

The Department of Mathematical Sciences at Loyola College believes that mathematics is an integral part of our culture, a science of pattern and order that helps us understand the world around us. The department offers a variety of courses of study, with concentrations in pure and applied mathematics, statistics, actuarial science, computer science, secondary education, and operations research, and has 11 full-time faculty whose expertise cover all of these areas. Currently the department is developing interdisciplinary programs in Math and Finance, and Math and Biology. The faculty is strongly committed to undergraduate teaching and to actively engage students with their research interests whenever possible. For instance, the department offers courses in cryptography, graph theory, mathematical finance, and modeling that are directly connected to faculty research. Also, each year typically two students are funded by the College to do summer research with a faculty member.

BRING A STUDENT !!

Inviting a student to join you in attending a section meeting is a great way to inspire the student's interest in the broader professional world of mathematics. The program includes talks that will be accessible to students, and students are offered special discounts on registration and lunch. Besides, any student who presents a contributed paper earns a free membership or journal subscription from the MAA (see the web page for details). For students who might like to make a presentation at the Spring meeting, attending the Fall meeting can also be a helpful background experience. So reach out and touch that special student - with an invitation to the section meeting.

Governor's Report

The MAA Board of Governors met this past July in Providence, just prior to Mathfest 99. As usual, the agenda was packed with items reflecting the wide interests and activities of your Association. This meeting marked Marcia Sward's last as Executive Director. As you know, she is stepping down at the end of the year after more than a decade of dedicated leadership. The beautiful lobby area of the Headquarters Building in Washington will be named in Marcia's honor. The new Executive Director will be Dr. Tina Straley of Kennesaw State University. We welcome Tina to her new job and to our Section.

Much of the discussion at the meeting centered on the mission statement of the Association and the report **A New Agenda for the 21st Century**. This document, the full text of which can be found on MAA Online, lists priority items which will guide the MAA for the next few years. I'll mention a couple: the formation of special interest groups (SIGMAAs) and the possibility of publishing a general interest magazine in mathematics. The Board approved the guidelines for SIGMAAs, but, while strongly supporting the idea of a general magazine, felt the need for further study.

Mathfest itself was a real treat. Brown University and the City of Providence were most gracious to the more than 1100 in attendance. The invited talks were among the best I have heard. There was truly something for everyone-the short course, minicourses, contributed papers, friends old and new, and even some much needed exercise as I trudged the hill between Brown and downtown Providence. If you haven't been to a Mathfest lately, consider next summer's at UCLA. This January's meetings are once again close to home-Washington, DC. Plan to take a break from the sessions and visit the MAA headquarters building just a Metro stop away off Dupont Circle. The building has just been through a rather intensive and impressive face lifting, taking the exterior back to its original antique brick. Check out the lobby, too, with its new Marjorie Rice tiling.

Finally, it is my very great pleasure to announce the awarding of the MAA Certificate of Meritorious Service to our friend and colleague Elizabeth Teles. I don't need to tell you of Liz's dedication and service to the Section and the MAA; it is truly outstanding. The actual presentation will occur at the Washington meetings in January. Let's pack the hall to show our appreciation for her hard work on our behalf.

See you at Loyola College on November 12th and 13th,

Jon Scott

Section Chair's Report

On behalf of our Section I want to thank Betty Mayfield for the truly outstanding job she has done as Section Chair for the past 2 years. Her contributions to the Section have been wonderful.

We are looking forward to another interesting and fun meeting this fall at Loyola College. With a beautiful setting and a wonderful program put together, once again, by Dan Kalman, the meeting promises to be enjoyable and productive. Lester Coyle and his team have done a wonderful job of organizing as well. As seen on our web page, <http://www.cas.american.edu/~maa/fall99/>, the program combines an exciting mix of invited and contributed talks, a Friday night dinner, and a Saturday workshop.

Please see the report in this newsletter from our Past Chair, Betty Mayfield. She attended the summer meeting and the Section Officers meeting and has a number of interesting items to report.

The Section would like to welcome and honor the following Project NExT Fellows at our Business Meeting:

Stephanie Cawthorne, Marymount University
John Allen Kuchenbrod, Emory & Henry College
George Moss, University of Virginia College at Wise
William Traves, US Naval Academy

Please plan on attending this fall meeting and bring lots of students! Looking forward to seeing you at Loyola.

Carol Crawford
Section Chair

Mathfest 1999

I was the Sections official representative to last summers MathFest in Providence, and, as Jon Scott reports elsewhere in this newsletter, it was a real treat. The Hedrick Lectures were inspiring, the J. Sutherland Frame Lecture and AWM Reception on Sunday night were fun and interesting, and, of course, the MAA Student Lecture by our own Dan Kalman, "A Square Pie for the Simpsons" (you had to be there), was the greatest. Dan paid special attention to the invited addresses, always being on the lookout for good speakers, and rumor has it that he has invited one of them to join us in the spring.

Jon, Dan, Liz Teles, and I all attended the Section Officers Meeting. We learned a lot about what other Sections have been doing with department liaisons, teaching awards, Section meetings, book sales, student activities, Web pages and can pass that information along to our Executive Committee. Many more MAA members participate in Section meetings every year than in the national meetings; the health of the Sections is vital to the future of the Association.

I also represented the Section at the meeting of this years class of Project NExT Fellows, the Brown (get it?) Dots. We have four fine new Fellows in our Section, as Jon has told you, and I am sure they will bring energy and enthusiasm to our meetings and activities.

The Summer MathFests really are fun and relaxed, and they are always in great locations. Well, maybe Atlanta in August wasnt all that great. But Providence was delightful, the seafood was delicious, the beaches were inviting, Newport was fun. Next summer the meeting is at UCLA, which is a beautiful spot. Plan now to attend this special MathFest 2000, and of course the national meetings in our own Section in January.

Thanks to the Section for giving me the opportunity to participate in this conference; I really enjoyed it.

Betty Mayfield
Past Chair

MINUTES OF THE SPRING MEETING (1999)

James Madison University, Saturday, April 10, 1999

The meeting was called to order by Chair Betty Mayfield.

Minutes and Treasurer's Report: The minutes of the fall 1998 meeting were approved. This was followed by the Treasurer's report from Jon Scott. Scott reported a balance of \$ 7367.49 in the general fund. New contributions of \$191.35, which includes \$95.35 from the Fall 1998 book sale, brings the Milcetch Fund to \$925.57. The student conference fund had \$2801.39 before the meeting started with another \$1000 approved from the general fund if needed to support the student conference at James Madison. Scott also reported that the attendance at the meeting was 233, including 102 students and 4 vendors. Scott continues to accept registrations by email and is pleased with the system.

Student Conference: The student conference at James Madison had 102 students in attendance. The conference has been very successful. Joe Gallian was the major outside speaker. 16 student papers (18 students) were given. There were 11 posters in the Poster Session (14 students). The Student Chapter fund subsidized student hotel rooms and paid for speakers, food, and other miscellaneous items. Kathleen Shannon and Andy Vogt, our student chapters coordinators, formed a committee for the conference. Kathleen Shannon and Helen Christensen chaired this committee. Other members included Andy Vogt, Bob Hanson, and Ira Walker. The conference was partially supported by an Exxon grant. A. K. Peters and the Section provided books that were used as door prizes.

John G. Milcetch Memorial Achievement Fund: The John Milcetch fund is used to award prizes to student speakers at the spring meeting. Because the fund has been awarding more dollars in prizes than it has been getting in contributions, the fund has been decreasing. The fund supports about 6 prizes each spring that were presented at the award ceremony in the afternoon. It does not support the Mathematical Contest in Modeling (MCM) or Putnam exam winners who are supported from the general fund. Alexander Diesl of Johns Hopkins University and William Hooper of University of Maryland College Park were the top Putnam winners in our section and were in the top 200 nationwide. In addition, there are four students that live in our area but attend colleges outside the Section, and also did very well on the Putnam exam: Samut Dasgupta is from Silver Spring, MD and attends Harvard University, Todd Geldon is from Rockville, MD and attends Princeton University, Nathan Curtis is from Reston, VA and attends Duke University, and Carl Miller is from Bethesda, MD and also attends Duke University. Section members are encouraged to contribute to the Milcetch fund. The Milcetch winners this year were:

Research papers: 1st place: "Symmetric Simple Map with Low MN-Perturbations" Tiffany Fisher, Hampton University, (with Arun Verma and Alkesh Punjabi). 2nd place: "Interactive Web Activities", Tim Cavanaugh, St. Marys College. 3rd place (tie): "Bresenham's Circle Generator and the Dda Ellipse Generator as Compared to Kappels Ellipse Generator" Raymond Mooring, Morgan State University, "Modeling Suspension Bridge Oscillations Using a Picard Iteration Technique" Paul Dosart, James Madison University.

Expository papers: 1st place: "The Weibull Distribution for Reliability Analysis" Laura Schultz, Hood College. 2nd place (tie): "Measure that Angle" Henry William Faxon, Bowie State University, "Approximation Methods for Integro-differential Equations" Aren Knutsen, James Madison University.

Prizes for student posters: Seniors: 1st place (tie): "A Combinatorial Proof of the Pythagorean Theorem" Tonya Greene, Mary Baldwin College, "Mathematics and the Art of M.C. Escher", Kathryn Vanney and Katie Myers, Mary Baldwin College. 3rd place: "Sauntering in the Rain" Lisa Black and Weiwei Pan, Mary Baldwin College. Juniors: 1st place (tie): "Origami and Conic Sections" Elizabeth Kiser and Christine McLean, Mary Baldwin College, "Hasse Diagrams of Sets of Three and Four Elements" Dan Winter, Salisbury State University.

Mathematical Competition in Modeling: There were 6 teams in our section that were recognized as having written Meritorious papers. All were invited to participate at this meeting and all accepted. Team members who present at the spring meeting are given a prize of \$50 each. The team winners this year in our section came from Virginia Western Community College (Team Advisor: Ruth Sherman), James Madison University (Team Advisor: James Sochacki), Eastern Mennonite University (Team Advisor: John Horst), the University of Richmond (Team Advisor: Kathy Hoke), and two team winners from the Governors School of Virginia (Team Advisor: Christiana Hamilton). Scott in making the awards announced that Eastern Mennonite now had had a meritorious team for 4 years in a row. There were 4 teams in our section that were recognized as having written Honorable Mention papers: College of William and Mary, Advisor: Michael Trosset, Georgetown University, Advisor: Andy Vogt, Governors School, Advisor: John Barnes, Thomas Jefferson High School Advisor: John Dell.

(Minutes of.. continued)

Future Meetings: The dates of future meetings were given. The Section meetings are: (a) Fall of 1999 to be held November 12-13 at Loyola College in Baltimore, Maryland , and (b) Spring of 2000 to be held at Bowie State University in Bowie, Maryland April 28-29,2000. The national meeting in winter of 2000 will be held in Washington, DC.

Elections: Elections were held. The newly elected officers for the section are: (a) Robert Grafton of the National Science Foundation as Program Chair Elect, (b) Bonita Saunders of the National Institute of Standards and Technology as Treasurer, and (c) Eve Torrence of Randolph-Macon College as Newsletter Editor. Mayfield announced that because Torrence was now newsletter editor that the position of Department Liaisons Coordinator was opened and requested that interested persons contact her.

Award for Distinguished Teaching: Lee May of Salisbury State University, Chair of the Committee, and Elizabeth Teles, Section Secretary, presented the Section Teaching award winner. The winner this year was Dr. Ezra ("Bud") Brown of Virginia Tech who was presented a check for \$200, a videotape *Inside Out* donated by A K Peters, and a certificate. Dr. Brown now becomes eligible for the national award. Information about Dr. Brown supplied by Dr. Robert Olin, the Chair of the Mathematics Department at Virginia Tech who accompanied Dr. Brown, was given to the Newsletter Editor for inclusion in the next newsletter.

Book Sales: At this meeting 51 MAA books with total value of \$ 1198.25 were sold. There are at least three benefits of purchasing MAA books at the meeting: (a) the prices of the books at the meeting are at least 10% below the regular member price, (b) people can take the books and avoid the shipping fees, and (c) the section gets 12% of the total sales of books sold at the meetings. In addition, the books are available for people to see before they are purchased. Funds generated by the section from the sale of books go into the Milcetch fund for support of student awards.

Local Arrangements: Betty Mayfield thanked local arrangements coordinator David Carothers and his colleagues for arranging the meeting. Prentice Hall supplied \$200 for the refreshments for the Friday night cocktail hour. The secretary was asked to send a letter of appreciation to James Madison University for hosting the meeting.

Recognition for 25-Year Members: 25-year members who were in attendance were given their 25-year certificates. The certificates for those not in attendance were sent after the meeting. Because the certificates did not arrive until the day before the meeting, it was not possible to send a special letter of invitation this year.

Mathematics Awareness Month: Mayfield announced that April was Mathematics Awareness Month and that the theme this year was Mathematics and Biology. The following were announced as special activities: (a) Virginia Tech sponsored a poster contest for high school students which had over 1000 high school participants and (b) Hood College sponsored a series of special talks.

Respectively submitted:

Elizabeth J. Teles
Secretary for the Section

♣ Section Meetings – Mark your calender! ♣

Spring 2000 : Bowie State University, April 28-29

Fall 2000 : American University

MD-DC-VA MAA Section

Fall 1999 Meeting Registration Form

Fill it out and mail it with payment to **Bonita V. Saunders, National Institute of Standards and Tech., 100 Bureau Drive, Stop 8910, Gaithersburg, MD 20899-8910** to arrive by **November 1, 1999** .

Please submit a separate form for each attendee. Make checks payable to MAA.

Name				
Affiliation				
Address				
Phone		e-mail address		
Are you an MAA member?		Is this your 1st MAA section meeting?		
Registration: (check type, enter fee at far right)	Regular (\$10) <input type="checkbox"/>	Student (\$5) <input type="checkbox"/> (Includes Lunch)	Guest (free) <input type="checkbox"/> (See guest policy)	Fee
Saturday Workshop (optional): to reserve a place, enter \$10 at right				Fee
Contribution to John G. Milcetch Memorial Student Achievement Award Fund (optional)				Amount
Friday night dinner (optional): Buffet style. Check desired entree, enter \$20 at far right	House Made Roasted Vegetable Cannelloni (prepared with Fresh Pasta and Rich Marinara Sauce) <input type="checkbox"/>	Poached Salmon (with a Chardonnay, Caper, Mushroom, & Fresh Lemon-Thyme Sauce) <input type="checkbox"/>	Sliced Beef London Broil (with a beef Bordelaise Sauce) <input type="checkbox"/>	Fee
Saturday lunch (optional): Deli Platter (Fresh Meats, Cheeses, Breads, and Rolls with all the trimmings) and a Pasta Primavera Salad, desert (cookies and brownies), and beverages. To order lunch, enter \$9 (or "Free" for students) at right. It is not necessary to specify a choice of entree.				Fee
Total payment enclosed (enter at far right)				

All meeting locations are wheel chair accessible, but persons with disabilities who may require special services should contact the Loyola Office of Disability Support Services at 410-617-2062 at least 48 hours prior to the event.

Bonita V. Saunders
National Institute of Standards and Tech.
100 Bureau Drive, Stop 8910
Gaithersburg, MD 20899-8910
 Attn: MAA Meeting Registration

GUEST POLICY

Registrants for the meeting sometimes bring along a GUEST (typically a spouse, parent, son or daughter, etc.) who attends the meeting STRICTLY FOR SOCIAL REASONS, and not out of an interest in the program. For a guest to attend a meal event, there must be a preregistration form submitted. Guests are not charged a registration fee for the meeting, only the cost of the meal(s) attended.

Fall Meeting: Loyola College in Maryland

MEETING HIGHLIGHTS

The Fall meeting of the MD/DC/VA Section of the MAA will be held November 12 and 13 at Loyola College, Baltimore, MD. The program will begin with a reception and banquet Friday evening, featuring an address by George Nelson, Director of the AAAS Project 2061. In Dr. Nelson's presentation, **Project 2061 and Mathematics Instruction in Middle School and High School**, MAA members will have an opportunity to learn about the links between the concerns and interests of mathematicians and scientists.

Saturday there will be addresses by Rodica Simion of George Washington University and Bud Brown of Virginia Tech, a workshop by Steve Casey and Dan Bell, contributed papers, the business meeting, and book displays. Dr. Simion will present **Combinatorial Aspects of Convex Polytopes**. A convex polytope is the convex hull of a finite set of points in Euclidean space. These objects arise in both theoretical and applied questions, from classical geometry to modern optimization.

Dr. Brown's presentation, **Love Letters, M & M's and Circe's Cave**, concerns Public Key Cryptography, a subject whose applications are essential to modern electronic life: smart cards, electronic transfer of money, digital cash, and computer security. At the same time, this subject involves beautiful mathematics with a venerable history. Bud is the winner of the MD-DC-VA Section's 1999 Distinguished Teaching Award.

The Saturday workshop, **Complex Mappings From an Evolutionary Viewpoint (A New Way to See Some Classical Mathematics)**, will introduce participants to $f(z)$ software, and give them a chance to see some of its features.

All meeting locations are wheel chair accessible, but persons with disabilities who may require special services should contact the Loyola Office of Disability Support Services at 410-617-2062 at least 48 hours prior to the event.

Meeting Program

Friday, November 12, 1999

6:00-7:00 PM Reception and Cocktail hour (refreshments provided by Brooks/Cole)
Andrew White Student Center, Fourth Floor
followed by:

7:00-9:00 PM Dinner and invited lecture

Andrew White Student Center, Fourth Floor

Welcoming Remarks:

Rev. Harold Ridley S.J.

President, Loyola College in Maryland

Invited Lecture:

**Project 2061 and Mathematics Instruction
in Middle School and High School**

by

George Nelson

American Association for the Advancement of Science

Saturday, November 13, 1999

- 8:30-10:00AM Registration and Refreshments - Knott Hall, Basement Level
- 8:30AM-2:00PM Book Displays and Sale - Knott Hall 155
- 9:00-10:50AM Workshop: Complex Mappings From an Evolutionary Viewpoint
(A New Way to See Some Classical Mathematics)
Dr. Stephen D. Casey, American University, and Dr. Dan K. Bell, Tiffin University
Knott Hall 473
-

Contributed Papers

All contributed papers will be in Knott Hall. An asterisk (*) following the title indicates that the talk is recommended for students; an asterisk following a speaker's name indicates that the speaker is a student.

9:00-9:30 AM Session I

- Knott Hall 02: "Sets and Ordering Procedures in Post Tonal Music*",
Ilhan M. Izmirli, Strayer University.
- Knott Hall 05: "Y=X and Visualization*",
Peter Kohn and Carter Lyons, James Madison University .
- Knott Hall 150: "Applications of Mathematical Concepts in Computer Graphics",
Ahlam Tannouri, Morgan State University.
- Knott Hall 151: "Risky Business: The Volatility of Stock Prices*",
Kathleen P. Brolly*, Loyola College in Maryland.
- Knott Hall 152: "BGR Sequences*",
Mark Stamp, NSA .
- Knott Hall 157: "Inferring Stock Distribution from Option Data*",
Ronald Zaleski*, Loyola College in Maryland.

9:40-10:10 AM Session II

- Knott Hall 02: "Using Poetry in College Mathematics Classes*",
Jeanne Fitzgerald, James Madison University.
- Knott Hall 05: "Calculus I: The First Two Weeks*",
Leon M. Cohen, Hampden-Sydney College.
- Knott Hall 150: "The Algebra of Derivative on Finite Sets*",
Daniel P. Robinson*, James Madison University.

- Knott Hall 151: "Fractal Dimensions in the Pascal Triangle*",
Michael J. Bardzell and Kathleen M. Shannon, Salisbury State University .
- Knott Hall 152: "Cliques at the U.S. Naval Academy*",
William Traves, U.S. Naval Academy.
- Knott Hall 157: "Improvements on the Tilley Algorithm for the Numerical Valuation of American Options*",
Rob Capellini*, Loyola College in Maryland.

10:20-10:50 AM Session III

- Knott Hall 02: "A Study of Students' Proofs in Advanced Calculus*",
William Shipley, Mount St. Mary's College.
- Knott Hall 05: "Suen's Method for Solving Cubics - Explained*",
Dan Kalman, American University.
- Knott Hall 150: "The Search for Tri-Operate Fields*",
Brett Alan Enge*, James Madison University.
- Knott Hall 151: "Hypercube Embedding in Wavelength Multiplexed Network*",
Andrew Oh, St Mary's College of Maryland.
- Knott Hall 152: "On Combinatorial Triangles, First Moments, and Riordan Matrices*",
Asamoah Nkwanta, Morgan State University.
- Knott Hall 157: "Trimmed Sums",
Fozia Qazi, St. Mary's College of Maryland.

11:00-Noon **Knott Hall 02**

Welcome:

Dr. David C. Haddad, Vice President for Academic Affairs, Loyola College in Maryland

Invited Lecture:

Combinatorial Aspects of Convex Polytopes

Dr. Rodica Simion

George Washington University

12:10-1:30 PM **Andrew White Student Center** **Lunch**

1:30-2:00 PM **Knott Hall 02**

Business Meeting

2:10-3:00 PM **Knott Hall 02**

Invited Lecture:

Love Letters, M &M's and Circe's Cave

Dr. Ezra (Bud) Brown

Virginia Tech

Lodging for Fall Meeting

Note: The quoted rates of the following hotels are conference rates. Indicate that you are going to the MAA Meeting at Loyola College. In order to receive these special rates, you must also reserve your room by October 12. Each rate is for single or double occupancy. Average driving times from each hotel to the Loyola campus are given in minutes.

Cross Keys Inn (Radisson)

5100 Falls Road (2 miles west of Loyola, 5 mins)
From I-83, take the Northern Parkway exit, go east on Northern Parkway, then south on Falls Road.
\$ 92/night.
Phone: 410- 532-6900 or 800- 756 2403
www.crosskeysinn.com

Mount Vernon Hotel and Washington Cafe

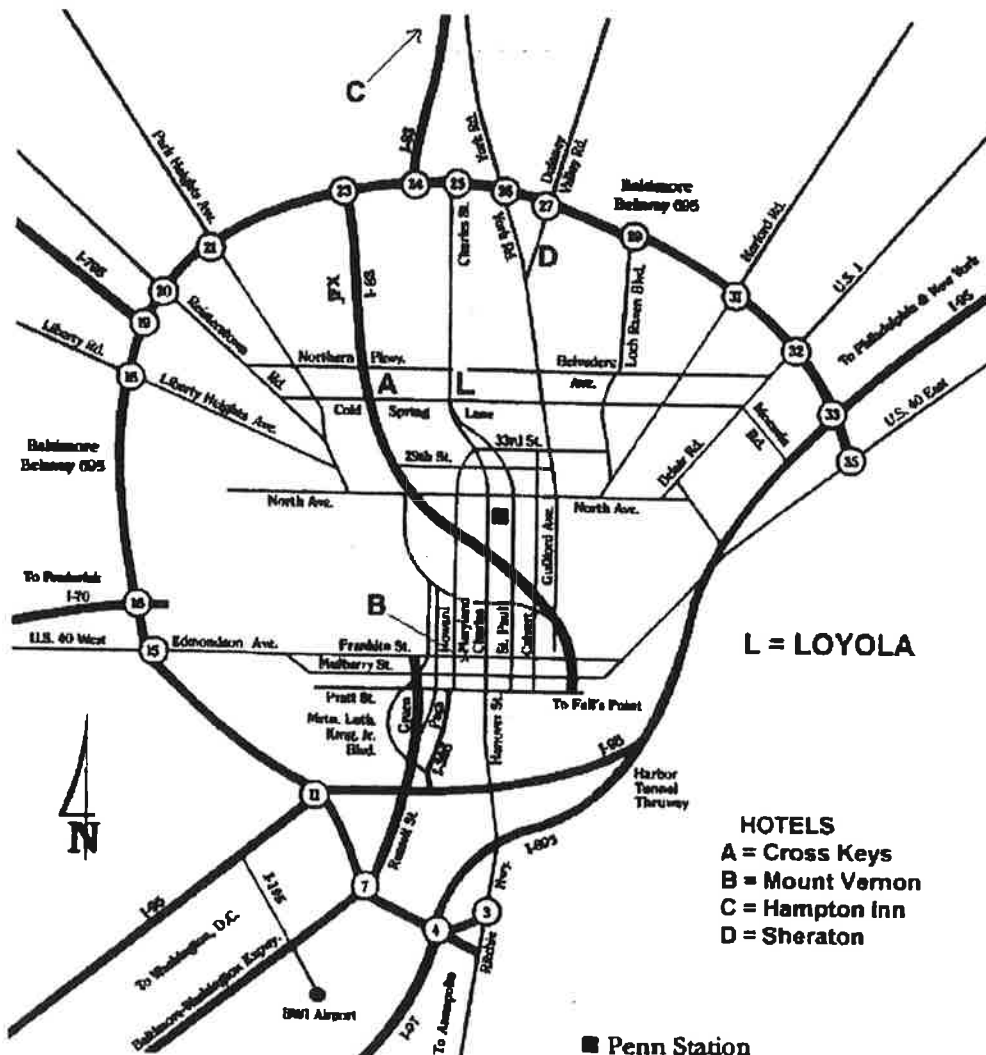
24 W. Franklin St (4 miles south of Loyola, 11 mins)
From I-83, take the South/ St. Paul Street exit, go south on St. Paul Street, then west on Franklin.
\$69/night.
Phone: 410- 727-2000
Historic hotel, close to inner harbor and museums.

Hampton Inn-Hunt Valley

11200 York Road, Hunt Valley
(13 miles north of Loyola, 25 mins)
From I-83 take Exit 20A,Shawan Road East to 3rd traffic light. Right turn onto York Rd. Hotel is located at intersection of York and Ashland Roads.
\$64/night.
Phone: 410- 527-1500
www.hamptoninn.com

Sheraton Baltimore North

903 Dulaney Valley Road, Towson
(5 miles north of Loyola, 12 mins)
From I-695 Beltway, take exit 27A, and go south on Dulaney Valley Road.
\$99/night.
Phone: 410- 321-7400 or 800- 433-7619
www.sheraton.com



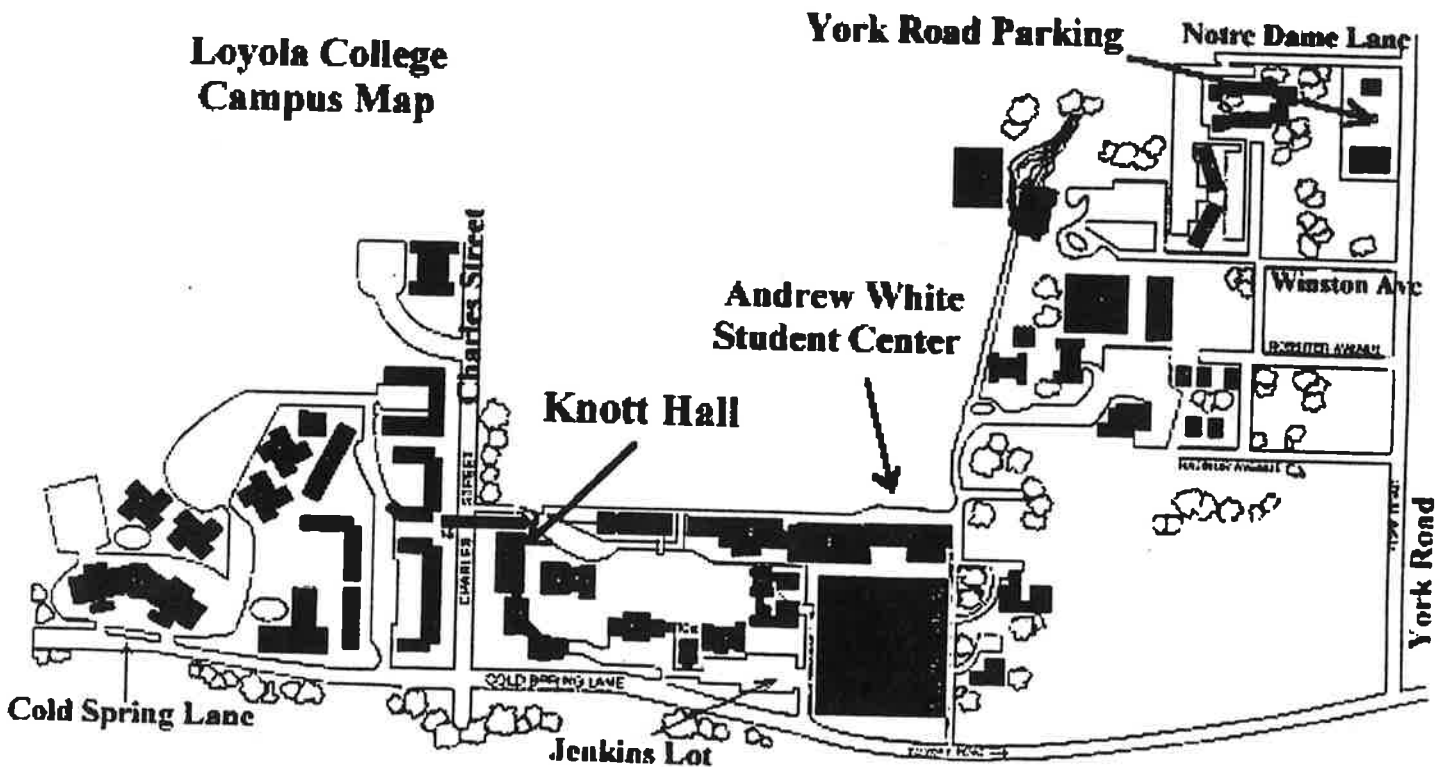
Direction To Loyola College and Parking Information

From the South: Take I-95 North to I-695 (Baltimore Beltway). From I-95 take the left lane exit for I-695 towards Towson. Then take I-83 South.

From the West: Take I-70 to I-695. Go North on I-695 towards Towson. Take I-83 South

From the North: (a) Take I-83 South or (b) take I-95 South to I-695 West towards Towson to I-83 South.

From I-83 take the Cold Spring Lane East exit. Proceed east on Cold Spring Lane for approximately 1.5 miles. The main campus is located at the intersection of Cold Spring Lane and Charles Street (see map). Continue on Cold Spring Lane, turn left at the traffic light on York Road, and turn left into the York Road Parking Lot (just after McDonalds) between Winston Ave and Notre Dame Lane (see map). College security advises that you do not walk from the York Road Parking Lot to the main campus. Instead, take the Loyola shuttlebus to the main campus. Shuttles run frequently, but you may need to wait a few minutes. There is no charge for parking at the York Road Lot or for the shuttle bus. Alternatively, there is very limited paid parking at the Jenkins lot on Cold Spring Lane. Also, limited on-street parking is available on Cold Spring Lane and Charles Street— do make sure to note the times when on-street parking is allowed in order to avoid being ticketed. The Friday night banquet and the Saturday lunch will be located in the Andrew White Student Center. All lectures will be in Knott Hall.



Treasurer's Report

September 10, 1999

<u>General Account Balance, February 15, 1999</u>	\$ 7304.86		
<u>Receipts</u>		<u>Expenses</u>	
Interest	\$ 94.05	Newsletter	\$ 1326.87
Meeting registrations	\$ 2527.50	Putman Awards	\$ 100.00
MAA subvention	\$ 2100.00	MCM Awards	\$ 900.00
Exhibitor's fees, Spring 1999	\$ 500.00	Meal functions, Spring 1999	\$ 1864.31
Recredit uncashed checks	\$ 132.00	Supplies	\$ 219.73
<u>Total Receipts</u>	\$ 5353.55	Distinguished Teaching Award	\$ 200.00
		<u>Total Expenses</u>	\$ 4610.91

General Account Balance, September 10, 1999 \$ 8047.50

1999 Student Conference

<u>Receipts</u>		<u>Expenses</u>	
Initial Contribution	\$ 1941.87	Mailing	\$ 93.06
Exxon Student Chapt. Grant	\$ 900.00	Invited Speaker	\$ 850.00
Interest	\$ 52.58	Cash Awards	\$ 925.00
Registrations fees	\$ 1035.00	Book Awards	\$ 249.00
		Housing Subsidy	\$ 175.00
		Meals	\$ 1130.22
<u>Total Receipts</u>	\$ 3929.45	<u>Total Expenses</u>	\$ 3422.28

Balance-Transferred to Milcetch Fund \$ 507.17

<u>John G. Milcetch Memorial Student Achievement Fund Balance-February 15, 1999</u>	\$ 734.22		
Contributions	\$ 96.00		
Interest	\$ 32.71		
Section Booksales	\$ 215.18		
Student Conference	\$ 507.17		
<u>Total Receipts</u>	\$ 851.06		
<u>Balance - September 10, 1999</u>	\$ 1585.28		

Jon W. Scott, Treasurer

Book Sale!!!

**Archimedes-What Did He Do Besides Cry Eureka?
Geometry from Africa
Inverse Problems: Activities for Undergraduates
Revolution in Differential Equations
Mathematical Fallacies, Flaws, and Flimflam**

Intrigued? These are just a few of the new titles from the MAA that will be available for purchase at the Fall Section Meeting. Why buy your MAA books at the Section Booksale? You get to take advantage of special meeting prices, discounted from the already low member prices. You don't have to hassle with extra shipping costs. And the Section receives a proportion of the proceeds, which it uses to support student activities. This is a great way to contribute to our Student Achievement Fund. So, make your list, bring your credit card, checkbook or cash, and go home with some terrific MAA publications.

Section's Distinguished Teaching Award Winner

This year's winner of the John Smith Award for distinguished College or University Teaching is Prof. Ezra "Bud" Allan Brown, of Virginia Tech. Bud's teaching is superlative. He is one of those rare teachers who are highly successful at all levels, from freshman courses to graduate courses. His overall teaching evaluation over the last five years is 3.71 out of 4; the department average over the same time was 3.29.

Bud's success in the classroom is due to a large degree to the rapport that he establishes with his students. As Jamie Met, a recent graduate, put it, "We feel he is more like a friend who is tutoring us in advanced mathematical theory, not just a professor whose only business is to cover the material in the syllabus." Another graduate, Lori Ratlif, writes "Since graduating from Virginia Tech and moving on to new challenges, I have come to more fully appreciate how rare individuals such as Bud are. As a human he is loving, clever, and witty. As an intellect, he is discerning, expressive, and inquisitive."

Bud has mentored a Rhodes Scholar, Mark Embree. He has been the driving force behind the Mathematics Department's highly successful Emerging Scholar Program which affects 650 students each year. He created the Advanced Discrete Mathematics BS degree option for undergraduates. He has advised 7 individual undergraduate research projects and served as an undergraduate advisor for 15 to 20 students per year since 1971. He has mentored graduate students by being the advisor for 4 master's degree presentation projects, serving on 27 Ph.D. committees, directing 3 M.S. theses, and 2 Ph.D. dissertations. He is Virginia Tech's "Man for All Seasons."

WANTED: Nominations for the Section's Award for Distinguished Teaching

It is time once again for the submission of nominations for the section's John Smith Award for Distinguished College or University Teaching. As you know if you have attended meetings of the section, we in the section are blessed with many outstanding teachers. In particular, we have Professor Ezra "Bud" Brown of Virginia Tech, the 1999 recipient of the award. You can learn more about Professor Brown by reading the biography of him above.

If you know of someone who is deserving of the Smith Award, please consider nominating him or her. The one-page preliminary nomination form—AND ONLY THIS (no other documentation will be considered at this stage)—should be submitted to Lee May, (chair of the selection committee), MATH/COSC, Salisbury State University, Salisbury, Maryland 21801, Phone: 410-543-6464; e-mail: elmay@ssu.edu by, 5 November. An electronic version of this form is available at

<http://www.cas.american.edu/~kalman/MAA/ShortTchAwardForm.html>

Nominators will be notified by 1 December as to whether their candidates look sufficiently promising to warrant submitting a full nomination packet for them. The full nomination packet should be submitted, also to Lee May, by 7 January 2000.

1999 American High School Mathematics Exam

This year 138 high schools participated in the 1999 American High School Mathematics Exam in Virginia. The regional exams coordinator for Virginia is Sally S. Garber of Hollins College and we thank her for her report of the exam results. The two highest scoring teams were from **Thomas Jefferson HS Sci Tech**, in Alexandria, VA, and **Radford High School**, in Radford, VA. These two teams scored above 350 and were named to the School Honor Roll. In addition 23 teams scored above 300 and were named to the School Merit Roll. The six highest scoring students were each awarded a book prize. They are **John Kulesza**, Thomas Jefferson HS Sci Tech, **Mark Tong**, Radford High School, **Lisa Carlivati**, Thomas Jefferson HS Sci Tech, **Joia Heretz**, Thomas Jefferson HS Sci Tech, **Hanley Chiang**, Harrisonburg High School, and **Robert McConnell**, Thomas Jefferson HS Sci Tech. This year the exam will be given on February 8, 2000. For more information contact Sally S. Garber, Hollins College, P.O. Box 9587, Roanoke, VA 23806, (703) 362-6000.

New Section Officers

Three new officers were elected at the Spring 1999 meeting at James Madison:

Robert Grafton was elected Vice Program Chair. Bob's career has spanned both mathematics and engineering. After earning an undergraduate degree in engineering from Brown University, he served in the U.S. Navy on the staff of Adm. Hyman G. Rickover. He later returned to Brown and earned a Ph.D. in applied mathematics. He has taught mathematics and computer science, and is now a Program Director at the National Science Foundation and manages a research program in VLSI design. He has been a member of the Association since 1960! Bob will serve one year as vice program chair and then a full two-year term as program chair.

Bonita Saunders is our new Treasurer. She is a research mathematician in the Information Technology Laboratory at the National Institute of Standards and Technology. Bonita earned a B.A. from the College of William and Mary, an M.S. from the University of Virginia, and a Ph.D. from Old Dominion University. Her career has included jobs in academia and in private industry as well as in the government. She is currently involved in a major NIST project called the Digital Library of Mathematical Functions, overseeing the development of graphics for a Web-based version of the National Bureau of Standards Handbook of Mathematical Functions. Bonita has served on the Sections Teaching Award Committee, and as a judge of student papers; she has also given talks at several meetings. She will serve a three-year term as treasurer.

Eve Torrence was elected Newsletter Editor of the Section. Eve received a B.A. from Tufts University and a Ph.D. from the University of Virginia. She was a Clare Boothe Luce professor of mathematics at Trinity College in D.C. for three years before moving to Randolph-Macon College in 1994, where she has just received tenure and promotion. She is the co-author, with Bruce Torrence, of the recently-released "Students Introduction to Mathematica: A Handbook for Precalculus, Calculus, and Linear Algebra." She has served as a local arrangements coordinator and as department liaisons coordinator for the Section. She will be our newsletter editor for two years.

Dan Kalman of American University has agreed to take over from John Nolan as Section Web-master. **Mary Kay Abbey** of Montgomery College -Takoma Park is Eve's successor as Department Liaison Coordinator.

Many thanks to Jon Scott for his *many* years as treasurer, to Parviz Khalili for writing these newsletters for three years, to John Nolan for designing and maintaining our Web site, and to Eve Torrence for her work as department liaison coordinator.

Section Officers to be Elected at Spring Meeting

At our Spring 2000 meeting we will elect a new

- Secretary (to succeed Elizabeth Teles, whose term is expiring)
- Chair (to serve one year as Chair Elect and then two years as Chair)

If you are interested in running for one of those offices or would like to find out more about them, or if you would like to nominate someone, please contact one of the Section officers. We would love to see some new faces among our ranks!

MAA Seeking Associate Executive Director

The Mathematical Association of America (MAA) is seeking a highly qualified person for the position of Associate Executive Director, Membership and Programs. Candidates should have a doctorate or the equivalent in mathematics or mathematics education, at least ten years of experience as a collegiate faculty member and administrator, and have served as the principal investigator on one or more grants or as a grants administrator. The AED will oversee all membership recruitment and retention efforts, member services, program development, grant management, and support, preparation and submission of proposals to foundations and government agencies. The AED reports to the Executive Director. He/she is a key member in the MAA's staff leadership team, and will engage with the Executive Director and other staff members, national officers, committee chairs, and others in strategic planning and program development.

The deadline for submission of applications is December 15, 1999. The full announcement of this position is available at:

<http://www.maa.org/news/aed.html>

Maryland/DC/Virginia Section of the MAA
Spring 2000 Meeting: April 28-29
Bowie State University

Early Call for Papers

Presenter: _____

Institution/Organization: _____

Address: _____

Phone number: _____ day _____ evening

E-mail: _____

Title of paper: _____

Content area: _____

Is this talk recommended for students: _____ Yes No

Equipment needed: _____

Status: Faculty
 Professional
 Student: Undergraduate Graduate

Please attach a two- or three-sentence description of your proposed talk.

Deadline: February 21, 2000

Send to Program Chair:

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