



Virginia Tech to Host Fall Section Meeting

Virginia Tech is the proud host of the Fall Section Meeting to be held on October 19 and 20. Located in Blacksburg, VA, the main Virginia Tech campus is surrounded by beautiful foliage in the Fall. This semester, three invited guest speakers will join us. Dr. Bonita Saunders of the National Institute of Standards and Technology, will give a presentation at our Friday night banquet to be held at the Four Points Hotel by Sheraton. On Saturday, our guest speakers are Dr. Dan Kalman of American University and Dr. Larry Washington of the University of Maryland [see pages 2 and 3 for abstracts]. In addition to the invited speakers, a special session for graduate student papers will take place at the Fall conference [see page



3 for details]. Section NExT will also hold a meeting at Virginia Tech concurrent with the section meeting. Finally, as always, publishers will be on hand at the conference with book displays.

Individuals planning to attend the meeting must pre-register if they wish to attend either the banquet dinner on Friday evening or the lunch on Saturday. Pre-registration information, directions, local maps, hotel information, and more are all available at the meeting web site. The address is <http://www.math.vt.edu/people/spielman/maa/fall01>. Those planning to attend the conference are also invited to present papers. The deadline for paper submissions is October 5. Please visit the web site and complete the online "Call for Papers" form.

Section NExT Begins Second Successful Year

During the 2001-2002 academic year, the MD/DC/VA Section of the MAA will continue Section NExT, a program extending the national Project NExT program. Project NExT (New Experiences in Teaching) is an MAA profes-

sional development program that provides support to those beginning an academic career in the mathematical sciences. The formal program consists of a series of workshops and panel discussions

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Dates to Remember:

- *Fall Meeting: Oct. 19-20, 2001*
- Banquet Registration Ends - October 8*
- Talk Deadline - October 5*
- Graduate Student Talk Deadline - Sept. 27*
- *Annual Joint Meeting in San Diego: Jan 6-9, 2002*

Bonita Saunders to Speak on Visualization at Banquet

Bonita Saunders will give a talk at the banquet titled **Effective 3D Visualizations for the NIST Digital Library of Mathematical Functions Project**

Abstract: The NIST Digital Library of Mathematical Functions (DLMF) Project aims to create a Web-based resource that will deepen the understanding of high-level functions arising in mathematics and physical sciences. Key features of the library will be 3D graphics, and interactive visualization capabilities. This talk looks at progress in developing effective visualization of high-level functions with singularities. Examples include: the Airy functions that provide closed form solutions to field equations of quantum mechanics, optics and electromagnetism; Gamma and beta functions that provide the starting point for the computation of more complex functions such as the Riemann zeta function; Other functions that occur in number theory, probability theory and mathematical physics.

Biographical Info: Bonita V. Saunders is a research mathematician managing the design and development of graphics and visualization for the NIST Digital Library of Mathematical Functions Project. She is an active member of the MD-DC-VA Section and currently holds the office of treasurer.



Dan Kalman: Polynomial Equations and Circulant Matrices

Dan Kalman will speak on **Polynomial Equations and Circulant Matrices** at the section meeting.

Description: This talk presents a unified derivation of the solutions to quadratic, cubic and quartic equations, using special properties of circulant matrices. These are square matrices with each row a cyclic permutation of the preceding row. There is a simple closed form expression for the eigenvalues of a circulant matrix, and that leads to a novel approach to finding the roots of a polynomial p : construct a circulant matrix C having p for the characteristic polynomial, and generate the eigenvalues of C . In the case of the cubic, this approach provides an alternate route to the solution of Cardano. For the quartic equation, the solution obtained with circulants is different from the original solution of Ferrari, and may be a new solution. On the other hand, there are other classes of matrices that can be used in place of circulants to solve quartics. One of these reproduces Euler's solution of

the quartic, and a second is very similar to Descartes' solution.

Biographical Info: Dan Kalman of American University has been involved with the MAA in a variety of roles; past positions include: Program Chair of our section (1998-2000), Associate Editor of Mathematics Magazine and Associate Executive Director of the MAA. He has won three MAA writing awards and is the author of Elementary Mathematical Models, published by the MAA in 1997.



Larry Washington: Diophantus and Fermat

Abstract: Can you find a right triangle with integer sides such that the hypotenuse and the sum of the legs are perfect squares? Fermat solved this in 1643. The smallest answer involves 13-digit numbers. How did he find them? The talk will start with Diophantus and show how his ideas led to Fermat's work, and beyond. Along the way, several historical issues will arise. For example, what happened in 1453, and why is it relevant?

Biographical info: Larry Washington has been teaching at the University of Maryland, College

Park, since 1977. Larry has worked with local high schools and has mentored several talented high school students in the Maryland area, seven of whom became finalists in the Westinghouse/Intel competition. He has also been involved with several high school math competitions. Larry's research is mainly in number theory. He is the author of Introduction to Cyclotomic Fields (Springer-Verlag 1982, 1997) and Introduction to Cryptography with Coding Theory (with Wade Trappe; Prentice Hall, October 2001).

Special Session for Graduate Student Papers at Fall Meeting

There will be a special session for expository papers given by graduate students. This is an opportunity to exercise your presentation skills in front of an interested and appreciative audience. There will be prizes and recognition from the MAA MD-DC-VA Section.

Your talk can be on your research or other topics as long as it is appropriate for the audience, which consists of math educators and researchers from four and

two year colleges, mathematicians in industry and government, and math students.

Participation is by invitation. Applicants should send an abstract via email to the Section Program Chair, Dr. Robert Grafton, kgottes@attglobal.net. Deadline for abstracts is Thursday, September 27, 2001. Talks will be scheduled for Saturday, October 20, 2001.

Section NExT Seeks New Fellows

(Continued from page 1)

in conjunction with the Section meetings. One of the primary strengths of the program is the establishment of a peer support group that provides important contacts for beginning faculty. Participants explore key aspects of life in academia while building lasting relationships with other participants and with senior faculty mentors from around the region.

The next meeting [forgive the pun!] will be held in conjunction with the Fall section meeting at Virginia Tech. The plans call for a presentation on the MAA's new digital library by Doug Ensley of Shippensburg University, in Virginia Tech's Math Emporium – an awesome facility full of hundreds of computers for use by mathematics students. Doug is the Editor of Online Collections for the Digital Library. Plans also include a panel discussion on undergraduate research.

Fellows keep in contact using an electronic discussion group. Section fellows are also invited to participate in activities and sessions sponsored by Project NExT at the national MAA and AMS meetings.

All non-tenured faculty in their first five years of full-time teaching are eligible to apply. Faculty at 2-year and 4-year colleges are particularly welcome. Successful applicants will receive a Section fellowship covering conference registration and lunch for the Section meeting. Some travel funds are available for those who do not receive support from their home institutions. **If you or someone you know would benefit from this program, please look at the webpage: <http://mathweb.mathsci.usna.edu/faculty/traveswn/next/SectionNextnew.htm>.**

Betty Mayfield Wins John Smith Teaching Award, Elected Governor

The Section's 2001 John Smith Award for Distinguished College or University Teaching was awarded to Betty Mayfield, the Chair of the Math and Computer Science department at Hood College. The award citation (available on our web page) focuses on Mayfield's development and adoption of innovative teaching strategies and curricular reform. She is one of the founders of the Section NExT program and a national NExT mentor. At our last meeting Mayfield was elected to a three-year term as section governor. Her report from the MAA summer meeting follows. – Ed.

Welcome to the beginning of another academic year. We have two great meetings planned for this year, at opposite ends of the Section – from the cool mountains of Virginia in the fall to the sunny shores of Maryland in the spring – so you can enjoy the beautiful scenery while you visit with your friends and experience good mathematics.

Our Section was well represented at MathFest this summer in Madison. I looked through the program and saw these Section members on the program as speakers or organizers: Genevieve Knight, Bud Brown, Dave Carothers, Bill Hawkins, Dan Kalman, Helen Christensen, Denny Gulick, Susan Wood, David Kung, and Howard Penn. Bud Brown was the speaker at the opening banquet and entertained us all. And our winning student team, Tonya Kim and Nancy Nichols from Randolph-Macon, presented their paper, "Can you follow our 'train' of thought?" in the Pi Mu Epsilon student paper session. As noted elsewhere in the newsletter, Bud Brown and Ed Scheinerman were honored with awards for their recent articles in MAA journals. Several of our Section officers participated in the annual Section Officers Meeting. I think we all had a great time, walking along the lakes, eating at Turkish and Afghan and Italian restaurants, going to the farmer's market, touring the state capitol, visiting Frank Lloyd Wright sites, and listening to exciting, inspiring, and entertaining mathematics talks. Ingrid Daubechies presented this year's fantastic Hedrick Lectures, on wavelets. Judy Grabiner talked about Colin MacLaurin and his use of "Newtonian style." Denny Gulick described Maryland's Bridge Goals Project, an articulation project linking high school and college mathematics courses, to mathematics faculty from around the country. Our Section chair, David Carothers, described James Madison's (the university's, not the president's) attempt to address the goals of the MET document. There was a workshop on Islamic art and a minicourse on card tricks. I encourage you to consider attending next summer's MathFest in Burlington, Vermont. The summer meeting is relaxed and fun, and is always held in a college town, so it is possible to stay in a dorm and attend the meetings fairly inexpensively. I look forward to seeing many of you there in 2002.

I attended my first Board of Governors' meeting in Madison, and I am learning a lot! Mostly I find that I need a *dictionary* to decipher the names of all the new MAA programs. Here are some of them. You may find out more about them – you *should* find out more about them – on MAA Online: www.maa.org.

MathDL. That's the Mathematics Digital Library Project. It encompasses JOMA (Journal of Online Mathematics and its Applications), digital classroom resources, and a library of commercial products. The second issue of JOMA is now available online.

Project PREP: Professional Enhancement Programs. The first of these workshops for college faculty were offered this summer and were very successful. Topics included *In Search of Newton, Mathematics and Art*, and *Teaching a Student-Active Data-Driven Introductory Statistics Course*. Future workshops include *Assessment at the Department Level*.

MEFT: Mathematicians Educating Future Teachers will hold a workshop on Teaching Future Teachers immediately following the joint meetings in San Diego. This project is supported by grants from ExxonMobil and the NSF.

Not to be confused with ... **MET:** the Mathematical Education of Teachers document produced by CBMS is available on the MAA web site. The mathematical community is urged to respond to the report, which will be published this fall.

Project NExT: New Experiences in Teaching, a professional development program for new college and university faculty. We are happy to welcome three new national Project NExT fellows to our Section this fall: Kimber Tysdal and Kira Hylton, both at Hood College, and Laurie Johnson at Trinity College. We will also introduce several new Section NExT fellows at our fall meeting.

CUPM: the Committee on the Undergraduate Program in Mathematics has issued a discussion paper, *Mathematics and the Mathematical Sciences in 2010: What Should Students Know?* We will be discussing the report in the Section this year.

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News of the Section

Steve Kahn (**Anne Arundel Community College**) reports that the college has two new faculty members. John Hamman joins the department from Keene State College in New Hampshire. Michael Lueke has a Master's degree in Mathematics from Saint Louis University in Saint Louis and a certificate in university teaching skills from the same institution. Most recently he has been teaching in Johns Hopkins gifted and talented program. The college is offering on-line courses this semester in the Nature of Mathematics, College Algebra, Elementary Statistics, Calculus 1 and Calculus 2. Dan Chesley has been promoted to Full Professor and Kathy Hays has been promoted to Assistant Professor.

Beatriz M. del Castillo (**Baltimore City Community College**) reports that two faculty have been promoted: Tracy Leshan to Professor and Scott Saunders to Associate Professor. Also two adjunct faculty members, Jeffrey Grell and Fred Chapple, have been hired full time. As in the past 5 semesters (has it been that long?), Professor Marianna Gleger will be conducting our series of bi-weekly student workshops on "Overcoming Math Anxiety".

Robert Pour (**Emory & Henry College**) reports that Suzanne Kelton has joined the Mathematics faculty. Dr. Kelton received her Ph.D. in 2001 from The University of Virginia under the supervision of Robert Stong. Her dissertation was on Involutions Fixing RP^j U Fn. Carlos Almada has also joined our mathematics faculty. His thesis title was "Harmonic Reductions in Principal Fiber bundles" He holds a degree in Mathematical Physics from the University of Colorado at Boulder and his research interests include Differential Geometry and Partial Differential Equations on Manifolds. Emory & Henry will soon begin a new tenure track search in mathematics.

Daniel Ullman (**George Washington University**) reports that Yongwu Rong is taking a leave of absence to serve as a rotating Program Officer at the National Science Foundation. Michael Moses has been appointed to the position of Associate Dean for Graduate Affairs at the Columbian College of Arts and Sciences (at GWU). Louis Kalikow is joining the faculty as an Assistant Professor. He obtained his Ph.D. degree in 1999 from Brandeis University. His research is in the area of combinatorics. Christopher Winfield is joining the faculty as a Visiting Assistant Professor. He obtained his Ph.D. degree in 1996 from UCLA. His research is in the areas of analysis, mathematical physics, and partial differential equations. Bill Schmidt joins the department from the University of Memphis. Dr. Schmidt's expertise is in combinatorics and algebra. Dan assumes the chairmanship this year for a two-year term. He served as Local Arrangements Coordinator for IMO 2001 USA, which transpired July 1-14 in the Washington DC area.

Caren L. Diefenderfer (**Hollins University**) reports that Claude Thompson retired in June 2000 and he and

his wife have moved to Myrtle Beach, SC. David Weinman also retired in June 2000 and he and his wife continue to live in Salem, VA. Julie Clark joined our department as an Associate Professor of Mathematics this year. She will be teaching four statistics courses, our math for elementary teachers course and one section of an introductory quantitative reasoning course. We miss Claude and Dave and are delighted to have Julie on board.

In July, Sally Garber, Julie Clark and I attended the Partnerships: Next Steps Workshop at Cornell University. This workshop was sponsored by the MAA and funded by NSF. The participating groups had each attended one of the previous Partnerships conferences and this session was designed to help groups extend/refine their work. Non-mathematical highlights of the week were cruising on Lake Cayuga and discovering the ice cream at the Cornell Dairy Store.

Betty Mayfield (**Hood College**) reports that the department hired two new faculty members in mathematics: Kimber Tysdal, who just earned her Ph.D. in graph theory at Wesleyan University and Kira Hylton Hamman, who is finishing up her dissertation in logic and set theory at Dartmouth. Both are national Project NExT fellows ("cardinal dots"). Hood also has a new faculty member in computer science: Timothy Wahls, who comes to us from Penn State Harrisburg. [Betty Mayfield was also promoted to full professor this year – Ed.]

Andy Bulleri (**Howard Community College**) reports that the college hired in a new Full Time Mathematics faculty member this Fall. Betty Anderson came from a Community College in Texas.

Bob Hanson (**James Madison University**) reports that Caroline Smith and Leonard A. Van Wyk were tenured and promoted to Associate Professor. Receiving one year appointments as Visiting Professor were Ms. Arlene R. Casiple from the University of Florida, Dr. Hasan Hamdan from the American University and Dr. Zenaïda Mateo from Okayama University, Japan.

John Wierman (Mathematical Sciences Department at **Johns Hopkins University**) reports that Professor Donald Geman will join the department this fall. He is a probabilist-statistician specializing in image analysis, and will be a member of the Center for Imaging Science in the Whittaker Biomedical Engineering Institute. John Wierman will spend the 2001-2 academic year at the Naval Surface Warfare Center in Dahlgren, Virginia, through the Navy -- American Society of Engineering Education sabbatical program. Carey Priebe, a statistician focusing on statistical image analysis, has been promoted to the rank of Professor.

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We're on the Web!
[http://www.american.edu/
academic.depts/cas/mathstat/MAA/](http://www.american.edu/academic.depts/cas/mathstat/MAA/)

Helen Christensen (**Loyola College**) reports that Prof. George Mackiw has become the Mathematics/Computer Science Editor of the C.U.R. Quarterly, a publication of the Council on Undergraduate Research (www.cur.org). Prof. John Hennessey has returned to Loyola College in Maryland from a 2000-2001 sabbatical spent at the Social Security Administration, where he worked with a team of economists, sociologists, survey experts, and experimental design experts developing a research protocol to test changes in the Social Security Disability Program which changes are designed to encourage more disability beneficiaries to return to work, as was recommended by the Work and Work Incentives Improvement Act of 1999.

Dr. Christos Xenophontos has assumed a tenure track position, coming to Loyola from Clarkson University in Potsdam, NY. He replaces Project NEXT-er Lester Coyle, whose (joint) publications in Mathematics and Finance led to a too tempting offer from Bank One in Chicago. During the intervening year, Prof. William Reddy returned from his 2000 retirement to cover the mathematical finance courses, but Bill has now re-retired!

Janusz Konieczny (**Mary Washington College**) reports that Dr. Jeff Edmunds has joined the Department of Mathematics as an Assistant Professor. Dr. Edmunds completed his Ph.D. dissertation in non-linear population dynamics at the University of Arizona in April.

Gordon Gregg (**Montgomery College, Rockville Campus**) reports that the department has hired three new faculty members in mathematics: Dr. Ben Nicholson, Mr. Andy Jones, and Ms. Alejandra Sorto. Dr. Nicholson comes to the department from Mineral Area College where he taught for three years. Andy Jones joins the department after a two-year appointment at American University. Ms. Sorto will be interning with the department this year while she completes her doctorate in Mathematics Education at the University of Maryland. In addition, Dr. K.C. Liu and Dr. Gilbert Sward retired at the end of the spring semester after many years of outstanding service.

Fred Portier (**Mount St. Mary's College**) reports that the department hired three new faculty members in mathematics: Christina Jarvis, Davorin Dujmovic, and Faramarz Fathnezhad. Chris Jarvis is responsible for the remedial mathematics program. Dr. Dujmovic earned his Ph.D. at the University of South Carolina and was most recently at the University of Minnesota. Dr. Dujmovic teaches both mathematics and computer science. His specialty is Universal Algebra. Dr. Fathnezhad earned his Ph.D. at the University of Memphis and his specialty is Graph Theory. The department welcomes back John August from a year-long sabbatical.

Kara Ryan (**College of Notre Dame of Maryland**) reports that beginning in October, the college will advertise for a full-time mathematics teacher beginning fall 2002. It is a tenure track position. PhD in mathematics required.

Eve Torrence (**Randolph-Macon College**) reports that Dr. Daniel Joseph has joined the college as an Assistant Professor

of Mathematics. Dr. Joseph completed his Ph.D. in the modeling of hysteresis at Virginia Tech in May. R-MC students Nancy Nichols and Tonya Kim, along with advisor Bruce Torrence, received the Outstanding designation in the MathServe contest sponsored by CoMAP for their project "Traffic in the Center of the Universe". Tonya and Nancy also won first prize for their presentation on this material at the Spring Section meeting and also gave a presentation at MathFest in Wisconsin. Their travel to Mathfest was funded in part by their award from the MD-DC-VA Section. Look for an article based on this project in the upcoming UMAP Journal.

Martha Siegel and Jim Coughlin (**Towson University**) report that the Mathematics Department has hired several new faculty members. Dr. G-Reza Sarhangi is Associate Professor in Mathematics Education, having come from Southwestern College in Kansas where he ran the annual Bridges Conference. The conference celebrates the connections among mathematics, art, music, and the sciences. Newly hired Assistant Professors are: Xuezhong (John) Hou, a recent Ph.D. from Oakland University in Analysis and Control Theory and Conrad Lotze, who is finishing his dissertation in Mathematics Education at American University. The department also welcomes two Visiting professors: Dr. Adviti Muni, a statistician with a doctorate from the University of California, and Jee-gon Kim, a mathematics educator from Sangmyung University in Korea.

Towson's Masters program in Applied and Industrial Mathematics graduated its first student last year and the Masters program in Mathematics Education has cleared its first graduate as well. Good luck to Lawrence Shirley as he steps down as Director of the Math Ed Masters program and Vice-Chair of the department to become Associate Dean of the Graduate School. We welcome Tad Watanabe as department Vice-Chair and Director of the Masters program in Mathematics Education.

Get well soon to Jim Coughlin, who recently had surgery on a torn rotator cuff. We wish him a speedy and complete recovery. We said sad goodbyes to Bill Moulds, who retired, and to Caryn Werner, who decided to move to Allegheny College. Congratulations to Mike O'Leary for being one of the principals with an NSF grant for a Scientific Simulation laboratory and course. Mike also is part of a grant to develop a track in computer security for the Computer and Information Science Department.

Howard Penn (**United States Naval Academy**) reports the hiring of two new faculty members -- Anastasios Liakos and Irina Popovici. Dr. Liakos joins the academy from a post-doctoral appointment at the Center for Advanced Engineering Fibers and Films of Clemson University. Dr. Popovici joins the Naval Academy after a Hedrick post-doctoral appointment at UCLA. In addition, Visiting Professor Berry is currently on the USNA / BRNC (Britannia Royal Naval College) exchange program having exchanged posts with Professor Mike Chamberlain. The Naval Academy expects to hire a couple of new faculty members this year and is particularly interested in someone with a background in Statistics.

Dick Morris (**Virginia Commonwealth University**) reports that the Mathematical Sciences Department at VCU has become

three separate departments; Mathematics, Computer Science and Statistics. Andrew Lewis is the new Chair of the Mathematics Department. David Schedler, former Treasurer of the MAA Section, died June 28, 2001. John Schmeelk, former Chair of the MAA Section, is on leave serving as professor of Mathematics at the VCU Branch in Qatar. P.N. Raychowdhury and C. Michael Lohr have retired. Aimee Ellington joins the department in August 2001 as a new Assistant Professor.

George Piegari (**Virginia Military Institute**) reports that the Mathematics and Computer Science department will be advertising for a tenure track position in mathematics this fall. A Ph.D. in mathematics will be required. Robert P. Bennell was promoted to Professor and also was a recipient of a VMI Distinguished Teaching award. Myke (pronounced Mike) Gluck joined the department as an Associate Professor to teach computer science and some mathematics. He came from Florida State, where he taught for eight years. VMI's most noteworthy announcement is that H. Gordon Williams retired this year after 37 years of dedicated teaching at VMI. We expect him to continue to attend our section meetings

V.S. Bakhshi (**Virginia State University, Petersburg**) reports: We are excited because we are starting a new degree program in computer science in the mathematics department. We are looking for at least two faculty members with doctorates in computer science. Dr. Dawit Haile received tenure and Dr. Raymond Fletcher was promoted to associate professor in the department.

Michael Evans (**Washington and Lee University**) reports that Wayne Dymacek has succeeded him as Head of the Department. Alan McRae has been tenured and promoted to Associate Professor. Brendan Weickert has joined the faculty as an assistant professor and Christopher Jones as a visiting assistant professor.

Two Section Members Win Writing Awards

Two members of our Section were presented with prestigious awards at the recent MathFest in Madison, Wisconsin, for papers which appeared in MAA journals.

Bud Brown of Virginia Tech won his second Pólya Award (the only person ever to receive two of these awards) for his article, "Three Fermat Trails to Elliptic Curves," which appeared in the May 2000 issue of the *College Mathematics Journal*. The George Pólya Awards, established in 1976, are made to authors of outstanding expository articles published in the *CMJ*. The citation notes that, "By elegantly intertwining historical nuggets with an intriguing set of illustrative problems, all beautifully and simply explained, Brown makes this introduction to the study of elliptic curves a compelling

invitation to the subject."

Ed Scheinerman of Johns Hopkins won a Lester R. Ford Award for his article in the June 2000 issue of the *American Mathematical Monthly*, "When Close is Close Enough." In it, he develops a method based on eigenvalues for choosing a value for ϵ so that for algebraic integers α and β , $\alpha - \beta < \epsilon$ guarantees that

$\alpha = \beta$ — a method which is accessible to beginning linear algebra students. The Lester R. Ford Awards were established in 1964 to recognize the authors of outstanding expository articles which appear in the *Monthly*.

Congratulations to both of these fine authors!

— submitted by Betty Mayfield

Governor's Report (Continued)

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AMC/USAMO: The American Mathematics Competitions were supported by a grant from the Akamai Foundation this year, culminating in our team's exemplary performance in the International Mathematical Olympiad. The competition itself was held in our Section, and many of our members helped as volunteers. We can be proud of our team's accomplishments and of our Section's hospitality.

NCTM: National Council of Teachers of Mathematics and the MAA have been discussing ways in which our two organizations can foster better relations between mathematicians and classroom teachers. And let me put in a plug once again for our local affiliates: Maryland, D.C. and Virginia all have NCTM chapters which hold meetings and publish journals and do good work. You can join the local affiliate for about \$15 per year — quite a bargain!

MAA is updating its electronic services with new association management software; keep checking the web site to see what's available there.

The theme of Mathematics Awareness Month, April 2002, will be Mathematics and the Genome.

I look forward to seeing many of you at Virginia Tech in October, and in San Diego in January. Best wishes for a successful year.

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