MEETING ANNOUNCEMENT

To: All Missouri Mathematicians
From: James Guffey, Chair of the MAA Missouri Section

The **Division of Mathematics and Computer Science** at **Truman State University** is looking forward to hosting the **Spring Meeting of the Missouri Section of the Mathematical Association of America** on **April 12 and 13, 2002.** We encourage you and your students to submit abstracts for contributed papers for the meeting.

The **Seventh Annual Missouri MAA Collegiate Mathematics Competition** will be held on **Thursday evening, April 11ᵗʰ, and Friday morning, April 12ᵗʰ.** Complete details appear later in this newsletter and on the Section web page.

I have been unable to reach either of our leads concerning featured speakers, so those plans remain incomplete at this time, but I can tell you that I have been able to confirm **Lou Grimm** of the **University of Missouri-Rolla** for the dinner speaker as our last year's recipient of the **2001 Missouri Section Award for Distinguished College or University Teaching of Mathematics**.

We at Truman State are looking forward to hosting this year's Missouri Section Meeting and hope to see you in Kirksville!

Future Meeting Sites

The Spring Meeting is held at various locations around the state. As part of its long-range planning, the Executive Committee is entertaining invitations for future meetings in 2007 and thereafter. The meeting sites for the past several years and the next three years are listed below for your convenience. If your campus would be willing to host a Spring Meeting, please contact James Guffey, Chair.

1985	Central Missouri State University	1996	Southeast Missouri State University
1986	Southwest Missouri State University	1997	Missouri Western State College
1987	Truman State University	1998	Southwest Missouri State University
1988	Washington University	1999	Rockhurst College
1989	University. of Missouri-Columbia	2000	Central Missouri State University
1990	College of the Ozarks	2001	U. of Missouri-Rolla
1991	University of Missouri-Rolla	**2002**	**Truman State University**
1992	Northwest Missouri State University	2003	Washington University
1993	Westminster College University	2004	Southeast Missouri State
1994	Missouri Southern State College	2005	Missouri Western State College
1995	Central Missouri State University	2006	University. of Missouri-Columbia

CALL FOR PAPERS

You are invited to present a paper at the Spring Meeting. Papers are to be between 15 and 20 minutes in length and may be on research topics or expository in nature and may deal with any topic in mathematics or mathematics education. For example, papers may pertain to your current mathematical scholarly activity, new courses that you have developed, or successful techniques you have found useful in teaching. You may opt to design a presentation directed to the undergraduate and graduate students attending the meeting.

Also, faculty are urged to assist honors students in presenting papers at the meeting. MAA student memberships will be awarded as prizes for the top student papers.

Abstract forms are available on the web at http://momaa.math.umr.edu/forms/abstract.html. Abstracts should be submitted using one of the following two methods: Mail to:

> James Guffey
> Division of Mathematics and Computer Science
> Truman State University
> Kirksville, MO 63501

or send the abstract as a Microsoft Word attachment to an e-mail to jguffey@truman.edu.

Please include all of the information requested on the abstract form: presenter's name, title, affiliation, contact information, title of paper, abstract, AMS subject classification, and special accommodations needed (overhead projector, computer, etc.). Also please indicate if the speaker is a student and if the paper is directed toward a student audience. Deadline for receipt of abstracts is **February 15, 2002.**

Congratulations to Professor Lou Grimm and Professor Edward Spitznagel

As noted earlier in this newsletter, the Missouri Section of MAA awarded Dr. Louis Grimm of the University of Missouri-Rolla the 2001 Missouri Section Award for Distinguished College or University Teaching of Mathematics. Dr. Grimm, who was honored at the banquet last Spring, has had a distinguished teaching career at UMR. He will be our guest speaker at the banquet at the 2002 Spring Meeting of the Missouri Section of MAA.

Congratulations also go to Dr. Ed Spitznagel, the winner of the 2000 Missouri Section Award for Distinguished College or University Teaching of Mathematics, who in addition to being recognized by the Missouri Section, was also given a Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics by the national MAA. He will be recognized and will speak at the January 2002 Joint Meetings.

Missouri MAA Collegiate Mathematics Competition

The sixth Missouri MAA Collegiate Mathematics Competition will be held Thursday, April 11, 2002 and Friday, April 12, 2002 on the campus of the Truman State University in Kirksville, Missouri. Any college or university in the state of Missouri can send up to two official teams of 1-3 undergraduates each to compete in the competition. Unofficial teams will be allowed to compete, depending on the amount of available space, but will not be eligible for awards. They will also be charged the normal registration fee. A one-person team will only be allowed in the competition if this person is his or her college's only representative in the competition. A completed registration form for each team must be sent one week before the competition begins. Late registration will be accepted only if there is room for the team in the competition. The registration form can be found on the MAA Missouri Section web page at http://momaa.math.umr.edu/forms/contest_registration_form.html.

No calculators or computers or reference material can be used during the competition. The contest will consist of challenging mathematical problems, comparable but not quite as difficult as the Putnam Exam. The Putnam Exam is a national exam sponsored by the MAA and given to outstanding college mathematics students. Previous Putnam Exams can be found in past October issues of the American Mathematical Monthly.

The first session will begin on Thursday, April 11 at 7:30 pm and last until 10 pm and will consist of 5 problems for each team to solve. The second session will begin on Friday, April 12 at 8:30 am and will end at 11 am. It will also contain an additional 5 problems. Each problem will be worth 10 points and will be scored by a committee of the MAA Missouri section. The committee consists of the following members: Mangho Ahuja (SEMSU), Jim Bruening (SEMSU), Hang Chen (CMSU), Curtis Cooper (CMSU), Joseph B. Dence (UMSL), Leon Hall (UMR), and Alvin Tinsley (CMSU). Some partial credit may be earned for substantially correct work toward a solution to the problem.

There will be a registration fee of $40 per team. A complementary continental breakfast will precede the Friday morning competition. Each team member and the faculty sponsor are invited to a Friday pizza party at 11:30 **am.** Each team member is also invited to be a guest at the MAA Missouri Section Banquet on Friday night. At that time, the results of the competition will be announced. A traveling trophy will be awarded to the first place team. In addition, each member of the first place team will receive a plaque. Certificates will also be given to each participant in the competition.

Any questions about the competition can be sent to

Curtis Cooper
Department of Mathematics and Computer Science
Central Missouri State University
Warrensburg, MO 64093-5045
(660) 543-8851
fax: (660) 543-8006
email: cnc8851@cmsu2.cmsu.edu

CALL FOR NOMINATIONS

2002 MISSOURI SECTION AWARD FOR DISTINGUISHED COLLEGE OR UNIVERSITY TEACHING OF MATHEMATICS

Nominations for the 2002 Missouri Section Award for Distinguished College or University Teaching of Mathematics are now being accepted. The award recognizes teachers of mathematics at the post-secondary level who have been widely recognized as extraordinarily successful.

The Section Selection Committee will review all nominations and determine which candidate, if any, best fulfills the guidelines given below. (If no nominated candidate is found to have outstanding qualifications, then the award will not be given.) The Missouri Section awardee will be honored at the Spring 2002 meeting of the Section and will be widely recognized and acknowledged within the Section.

The awardee will also be the official Section candidate for the pool of Section awardees from which the national recipients of the MAA Deborah and Franklin Tepper Haimo Awards for Distinguished College or University Teaching of Mathematics will be selected except that one of the national winners may be selected from another source. There will be at most three national awardees, each of whom will be honored at the national MAA meeting in January 2003 and receive a $1,000 check and a certificate.

Eligibility

Nominees must satisfy the following criteria:
- College or university teachers assigned at least half-time during the academic year to teaching a mathematical science in a public or private college or university (from two-year college teaching through teaching at the Ph.D. level) in the United States or Canada. Those on approved leave (sabbatical or other) during the academic year in which they are nominated qualify if they fulfilled the requirements in the previous year.
- At least five years teaching experience in a mathematical science.
- Membership in the Mathematical Association of America.

Guidelines for Nomination

The nominees should
- be widely recognized as extraordinarily successful in their teaching*
- have teaching effectiveness that can be documented
- have had influence in their teaching beyond their own institutions**
- foster curiosity and generate excitement about mathematics in their students.

*"teaching" is to be interpreted in its broadest sense, not necessarily limited to classroom teaching (it may include activities such as preparing students for mathematical competitions at the college level, for

example, the Putnam Prize Competition or the Mathematical Contest in Modeling, or attracting students to become majors in a mathematical science or to become Ph.D. candidates).

**"influence beyond their own institution" can take many forms, including demonstrated lasting impact on alumni, influence on the profession through curricular revisions in college mathematics teaching with national impact, influential innovative books on the teaching of college mathematics, etc.

<u>Procedures</u>

* Nominations must be submitted on the "**Nomination Form**" found on the Missouri Section web page at http://momaa.math.umr.edu/forms/MAATeachAwardForm.pdf. Anyone may nominate an eligible candidate, but self-nomination is not permitted.
* Please follow the instructions on the form precisely to assure uniformity in the selection process both at the Section and national levels. If a file on a Section awardee significantly exceeds the prescribed limits (as found at http://momaa.math.umr.edu/forms/teaching_award_guidelines.html), it will not be considered for a national award and will be returned to the Section.
* Nominations for the Missouri Section Award should be sent to Rhonda McKee, Chair of the Selection Committee, at the address below so as to be received no later than **<u>December 1, 2001</u>**. Nominations for candidates who are not members of the Missouri Section should be sent to the Secretary of the nominee's Section.

> Rhonda McKee
> Dept. of Math & Computer Science
> Central Missouri State University
> Warrensburg, MO 64093

Minutes of Missouri Section Executive Committee Meeting
April 6, 2001

The Executive Committee meeting of the Missouri Section was held in Centennial Hall on the campus of the University of Missouri-Rolla. Chair Ilene Morgan called the meeting to order after the banquet. David Stone, Chair of the MAA Committee on Sections, attended the meeting along with the following officers:

Chair	Ilene Morgan (UMR)
Vice-Chair	James Guffey (Truman)
Governor	Vic Gummersheimer (SEMO)
Newsletter Editor	Jim Bruening (SEMO)
Past Chair	Curtis Cooper (CMSU)
Secretary-Treasurer	Susan Callahan (Cottey)

1. Susan Callahan expressed some concern about the long-term health of the Section's finances. There is a large balance in the bank account now, but, without an Exxon Grant, expenses for the meeting, competition, and newsletters exceed the Section's income.   Possibilities discussed were increasing the team registration fee for the competition, increasing the number of exhibitors at the meeting (TI and Casio sometimes exhibit), including advertising (for graduate schools) in the newsletter, and having the newsletter entirely on-line to lower mailing costs.

2. Options for the newsletter were discussed. The spring newsletter could go out earlier if the meeting schedule were not included. A meeting announcement could be sent in January and the newsletter, including a report on the meeting, could be sent after the meeting. Jim Bruening wanted to ask for suggestions at the Business Meeting. If there are no suggestions, we will go with three mailings: fall newsletter, meeting announcement, spring newsletter.

3. Efforts are being made to establish a section NExT program. A couple of get-togethers were held at Rockhurst two years ago and Ilene Morgan made arrangements for a panel and breakfast at this meeting. A group consisting of Kim McHale (Columbia College), Tim Ray(SEMO), Paula Shorter(Rockhurst), and Ilene is working on a grant to support additional NExT activities. The first draft has been submitted. David Stone noted that about half the sections have NExT programs. He suggested that senior people in the Section be involved in planning Missouri's NExT program. Copies of a letter regarding fund raising for the national Project NExT were distributed to Executive Committee members.

4. Ilene distributed copies of a letter she received from Kevin Hopkins (Southwest Baptist) asking whether College Algebra is acceptable under the Missouri Coordinating Board for Higher Education's new general education policy. Vic Gummersheimer has just been appointed to the CBHE's Mathematics Technical Advisory Committee.

5. UMC would like to get more involved in the Section. We last met there in 1989. The Executive Committee approved UMC as the host of the 2006 meeting.

6. Shing So would like to be reappointed as H.S. Contest Coordinator. His term is not over for another year, but no one objected to his being reappointed at that time. Curtis Cooper distributed copies of the results of the 2001 American High School Mathematics Examinations.

7. A draft of the agenda for the Business Meeting was distributed. It was suggested that Al Tinsley announce the results of the 5K Run/Walk. The customary prize is $15 toward an MAA book.

8. Next year's Missouri Section meeting will be April 12-13, 2002, at Truman State University.

Respectfully submitted,

Susan Callahan
Secretary-Treasurer

Minutes of MAA Missouri Section Business Meeting

April 7, 2001, University of Missouri-Rolla

(Approval will be considered at the Spring 2002 Business Meeting: April 13, 2002)

The Business Meeting of the Missouri Section was held in McNutt Hall Room 204 on the campus of the University of Missouri-Rolla. Chair Ilene Morgan called the meeting to order at 11:00 a.m.

1. Susan Callahan presented certificates to all students who presented papers at the Meeting.

2. The minutes of the 2000 Business Meeting were approved as published in the Fall Newsletter.

3. Ilene Morgan reported on issues discussed at the Executive Committee Meeting. Four people are working on a section NExT program. Kim McHale has submitted a proposal for a grant. They hope to have a full-fledged program next year. The University of Missouri-Columbia will host the meeting in 2006.

4. Vic Gummersheimer reported on the Board of Governors meeting held on January 9 in New Orleans. The new MAA president is Ann Watkins. The old committee on placement testing has been replaced by a new standing committee, the Committee on Articulation and Placement. Ken Ross will chair the Committee on Elections to study the timing and method of conducting national MAA elections. Please vote--more participation is desirable. A 3.5% increase in dues passed after being hotly debated. There are now three special interest groups: Research in Undergraduate Mathematics Education, Statistics Education, and BIG (business, industry and government). Departments are encouraged to provide copies of Math Horizons for majors. MathDL is a new web site with many resources for mathematics faculty. The 42nd IMO will be held in Washington, DC, about July 4. Please try to come to the MathFest in Madison this summer. The MAA is undertaking a fund raising effort for Project NExT.

5. David Stone, Chair of the MAA Committee on Sections, said that he enjoyed visiting the Missouri Section. He thought it was a good meeting.

6. Susan Callahan distributed the Treasurer's Report. The balance as of April 1, 2001, is $4,422.10. She noted that the Section is currently spending more than it takes in. The balance is healthy now, but there could be long-run implications.

7. The Spring Newsletter came out at the last minute. Ideas discussed included sending the main meeting schedule (without the contributed papers) in January, and sending the fall issue earlier and the spring issue after the meeting.

8. Les Reid, Student Chapter Coordinator, reported that he is trying to increase the number of chapters in the state. He is thinking of targeting a couple of schools and would be interested in any suggestions.

9. Rhonda McKee, High School Lecture Coordinator, was attending the KME meeting.

10. Shing So, H.S. Contest Coordinator, said that this year's finances were not yet complete, but he expected it to be the same as last year. The report of the results of the 2001 American High School Mathematics Examinations is available at the book sale.

11. Robert Roe, Junior High School Contest Coordinator, reported that 69 schools and 3739 students participated in the contest. The average score in Missouri was 8.68, and the average score nationally was 8.66. There were 4 perfect scores in Missouri and 58 nationally. The governor will present plaques on April 17.

12. Jerry Wilkerson noted that there is a list of summer workshops on p.10-12 of the Spring Newsletter and encouraged people to take advantage of them. He also noted that the URL for MathDL is included in the third paragraph of p.9 of the newsletter. Jerry is completing a long term as Public Information Coordinator. The Section thanked him for his years of service.

13. Leon Hall asked people to check and be sure their institutions were correct on the web page. Material to be included on the page should be sent to him.

14. Curtis Cooper listed the top five teams in the Collegiate Mathematics Competition: UMC Team A, Washington University, UMC Team B, UMR Team A, and Westminster. A total of 61 students, 15 team advisors, and 7 committee members participated in competition activities. Curtis mentioned the possibility of raising the entry fee because expenses are far greater than revenues and grant money is no longer available.

15. Bob Kennedy, chair of the selection committee, congratulated Lou Grimm on winning the 2001 Missouri Section Award for Distinguished College or University Teaching of Mathematics. Next year Rhonda McKee will chair the selection committee. All departments are encouraged to make nominations.

16. The Nominating Committee consisted of Al Tinsley, chair, Ken Lee and Bob Sheets. The following officers were nominated by the Committee and elected by the Section:

> Vice Chair   Renato Feres (Wash. U.)
> Secretary-Treasurer   Keith Brandt (Rockhurst)
> Public Information Coord.   Sharon Vestal (MWSC)

Renato Feres is currently in Paris; Steven Krantz offered his name to the committee. The Section thanked Jerry Wilkerson and Susan Callahan, whose terms end at this meeting, for their service.

17. Al Tinsley thanked Tim Randolph and Rob Roe for laying out the 5K Run course. There were three runners and four walkers. Al Tinsley won the drawing.

18. James Guffey said he looked forward to having the Section meeting at Truman State next year. The dates of the meeting are April 12-13, 2002, with the competition April 11-12.

19. Four items were discussed under Old/New Business.
     a.   Yungchen Cheng said that MOMATYC had expressed a desire to begin dialog with the Section.
     b.   Carol Browning suggested that the Section try to avoid Passover when scheduling meetings.

c.   Electronic distribution of the newsletter was discussed. Postcard reminders could be sent when the newsletter appeared on the web. However, David Stone said that didn't work in his section. Liaisons could print and distribute copies of the newsletter on their campuses. But not all liaisons communicate with people under the current system and there is a concern about members, such as high school teachers, who are not in a college department. Sending an e-mail to all individuals was suggested. This would require every liaison sending the e-mail address of every faculty member to Jim Bruening--not likely to happen. Curtis Cooper expressed a concern that we might be asking Jim to do something impossible.

d.   A motion to have the secretary write a letter to the appropriate official at the University of Missouri-Rolla, expressing gratitude for their having hosted the meeting, was approved.

Respectfully submitted,

Susan Callahan
Secretary-Treasurer

Lotto Results from the Rolla Meeting

Those of you who were at the MAA section meeting in Rolla this past April might remember that invited speaker David Stone had everyone fill out a Missouri Lotto ticket with the intention of picking two of them at random and playing them. One ticket consists of choosing six numbers out of 44 twice and costs $1 to play.

The two selected tickets were those of Jerzy Wojdylo, whose two results were two out of six and zero out of six, and Lynda Plymate, who went zero out of six for both of her results. David also played his own ticket and matched two out of six for both of his results. Since it takes three out of six to win the minimum prize (a free ticket), there isn't any exciting postscript to this story.

Thanks to all who participated.

From the Governor
Vic Gummersheimer (SEMO)

The Board of Governors met on August 1, 2001, from 9:00 a.m. to 5:00 p.m. during MathFest 2001. This was the first Board of Governors meeting chaired by the new president of the MAA, **Ann Watkins.** The next Board meeting will be on January 5 before the Joint Mathematics Meetings to be held January 6 to 9, 2002, in San Diego, CA.

President Watkins announced the appointment of three **committee chairs**:

Victor J. Katz	Subcommittee on Instructional Uses of the History of Mathematics
Bernard Madison	Committee on Articulation and Placement
Martha J. Siegel	Committee on Committee Chairs' Handbook

The **next six AMS-MAA Joint Meetings** will be held during January in San Diego(2002), Baltimore(2003), Phoenix(2004), Atlanta(2005), San Antonio(2006), and New Orleans(2007). **Ronald Graham** will assume the office of **President-Elect** after the January meetings in 2002. He will serve in that capacity for one year and will become President of the MAA after the January Meeting in 2003. All officers serve a two-year term. Also, in January 2002, Carl C. Cowen will become First Vice President and Joseph A. Gallian will begin his term as Second Vice President.

To encourage members who are interested in serving on national committees, Governors have been requested to send the names, interests, and special abilities of **potential committee members** to the Secretary. To assist me in this task I would ask each member to examine the committees listed on the website www.maa.org and submit their own name or the name of someone in the Missouri Section who would be able to work on a particular committee.

The Mathematics Digital Library Project is continuing to develop through the work of Don Albers, Doug Ensley, Lang Moore, and the staff at Math Forum. The first issue of the **Journal of Online Mathematics and its Applications (JOMA)** appeared in January and the second issue was released during MathFest. This part of the project is under the direction of David Smith, editor of JOMA. I am sure that you will find some interesting articles at www.joma.org.

The MAA office is the process of converting to the new TIMSS Association Management Software. The project is within budget and on schedule to be completed this fall. The new management system will allow many new services such as processing new or renewed memberships online.

Don Albers, the Associate Executive Director of the Publications and Electronic Services Department, reported that book sales continue to be strong and that several new books will appear during the coming year. The latest information on MAA books is available at www.maa.org.

The Board of Governors confirmed the selection by the Committee on the Deborah and Franklin Tepper Haimo Awards for Distinguished College or University Teaching of Mathematics of Dennis DeTurch (U. of Pennsylvania), Paul J. Sally, Jr. (U. of Chicago), and Edward L. Spitznagel, Jr. (Washington U. – St. Louis). On behalf of the Missouri Section, I extend our congratulations to Dr. Spitznagel. The awardees will be asked to speak about their teaching at the San Diego meeting.

Searches are underway to fill **two very important positions**: Director of Programs and Services at MAA and Treasurer of MAA. These are the positions currently held by Thomas W. Rishel and Gerald J. Porter. Please consider the following announcements and make suggestions to the search committees.

The Mathematical Association of America (MAA) is seeking a highly qualified person for the position of **Director of Programs and Services**. Candidates should have a doctorate or the equivalent in a mathematical science or mathematics education and at least six years of experience as a collegiate faculty member. A candidate should have successful experiences in all or most of the following areas: grant proposal writing and project management; administration; improvements in teaching and learning; and MAA committees, sections, or programs. Appointments may be made for two or three years, with the option of renewal for multiple years.

The Director will oversee programs and member services which include professional development activities; program development; support of member run activities, including those of committees, sections, and special interest groups; grant management and support; preparation and submission of proposals to foundations and government agencies. The Director reports to the Executive Director. He/she is a key member in the MAA's staff leadership team, and will work closely with the Executive Director and other staff members, national officers, section officers, committee chairs, and others in strategic planning and program development.

The MAA, with 30,000 members, is the largest association in the world devoted to collegiate mathematics. Membership includes college and university faculty and students, high school teachers, individuals from business, industry, and government, and others who enjoy mathematics. The Director of Programs and Services has responsibilities that encompass all major components and activities of the MAA. These include two annual national conferences, the summer MAA MathFest, and the winter Joint Mathematics Meeting organized with the American Mathematical Society; twenty-nine Sectional organizations that hold annual meetings and conduct professional development activities; publication of three scholarly journals, two magazines, a newsletter, and 15-20 books annually; over 100 committees and councils that are responsible for much of the work of the Association; and externally funded projects and programs.

The deadline for submission of applications is January 21, 2002. Interviews will be held during the months of January and February. It is expected that the new Director will begin work by July 2002, earlier if possible. The position is located at the national headquarters of the MAA in Washington, DC. Salary will be based upon the candidate's credentials or current salary for a reassignment position. The MAA offers a generous benefits package.

Candidates should send a résumé and letter of interest to: Ms. Julie Kraman, Mathematical Association of America, 1529 18th Street NW, Washington, DC 20036.

Applications may be submitted electronically to jkraman@maa.org. References will be requested after review of applications. Applications from individuals from underrepresented groups are encouraged. Additional information about the MAA and its programs and services may be found on MAA's Website: www.maa.org. AA/EOE.

The Committee charged with the responsibility of recommending candidates for the position of **Treasurer of the MAA** seeks input. Members of this Treasurer Search Committee are Barbara Faires, Chair, Ron Graham, and Barbara Osofsky. If you would like to suggest a candidate or would like to be considered yourself, please contact Barbara Faires by e-mail (faires@westminster.edu) as soon as possible.

The term of the treasurer position is five years. According to the MAA Bylaws, the Treasurer shall have the usual duties pertaining to the office including the collection of dues and the supervision and safekeeping of the funds of the Association. The Treasurer shall be responsible for the control and

administration of all investment funds; endowment, trust, and gift funds; and such other funds as the Board may designate. The Search Committee makes its recommendations for candidates for the position of Treasurer to the Executive Committee, who sends nominations to the Board. It is the Board of Governors who elects the Treasurer.

Missouri Mathematics Leadership (MML)

Check out the Missouri Mathematics Leadership (MML) web site (http://mathed.missouri.edu)! This site serves as a central source that includes information related to conferences, summer institutes, DESE sponsored activities, and math contests. Links to state and national agencies and professional associations are also available through the site. Reports developed by DESE, K-16 Coalition for Mathematics and the MML Project can also be read or printed from the site. In addition, this DESE funded project sponsors a spring leadership conference and provides grant writing assistance to public schools.

Teachers may register via the web site to receive newsletters and mailings. The MML staff welcomes your questions/comments. Please contact us via e-mail MML@missouri.edu with your input.

Marilyn Soucie
MML Coordinator

Missouri Math Meetings (More information available on MML web site)

11/06/2001 **NCTM Institute on Algebra**, Branson, MO
12/7/2001 **Missouri Council of Teachers of Mathematics Annual Conference**, Columbia, MO
02/21/2002 **Interface 2002 A (grades K-6)**, Missouri DESE, Osage Beach, MO
02/24/2002 **Interface 2002 B (grades 7-12)**, Missouri DESE, Osage Beach, MO

From the Campuses

Avila College

We did hire a new assistant professor in mathematics this year at Avila College. Her name is Kathleen Fick and she got her PhD from Auburn University last spring. Her thesis involved ordinary differential equations. (Submitted by Don Faurot.)

Central Missouri State University (Warrensburg)

New faculty: Dr. Mahmoud A. Yousef, Assistant Professor of Mathematics
     Ph.D.   Louisiana Tech University (Computational Analysis and Modeling)
     M.S.   Louisiana Tech University (Mathematics)
     M.A.   Kent State University (Mathematics)
     B.Sc.   Yarmouk University, Irbid, Jordan (Mathematics and Computer Science)

     Mr. Paul J. Plummer, Instructor of Mathematics
     M.S.   Central Missouri State University (Mathematics)
     B.S.E. Central Missouri State University (Mathematics)

     Ms. Deborah Detrick , Instructor of Mathematics
     M.S.   Central Missouri State University (Mathematics)
     B.S.E. Central Missouri State University (Mathematics)

Promoted to Full Professor: Dr. Hang Chen, Dr. Phoebe McLaughlin, Dr. Sue Sundberg, Dr. Jean Tao

Tenured and Promoted to Associate Professor: Dr. Cindy Ramey

Retirement: Dr. Larry Dilley retired in May 2001 after 40 years of teaching at CMSU.

Special Events:
The department hosted its third annual Sonia Kovalevsky Day on September 25. Nearly 60 female high school students and 15 teachers attended a day of workshops, a problem solving competition, and a career panel discussion. Featured speakers included an actuary from Kansas City Life, an engineering team leader from Cerner Corp., an electrical engineer from Burns and McDonnell, a B-2 pilot from Whiteman AFB, and an assistant professor in Biometry from the University of Nebraska-Lincoln. Dr. Rhonda McKee, Dr. Sue Sundberg, and Ms. Martha Diehl are the SK Day directors. Serving on the steering committee are Ms. Marte Carter, Dr. Terry Goodman, Dr. Cindy Ramey, and Mr. Steve Shattuck.

CMSU remains in first place in the Great Internet Mersenne Prime Search (GIMPS). Over 600 computers in laboratories and faculty/staff offices across campus are using idle CPU cycles to search for a new world-record largest prime. Over 20,000 groups are involved in the worldwide search which uses software written by George Woltman and implemented on the PrimeNet server by Scott Kurowski of Entropia, Inc. The four largest known primes have been found as a result of the GIMPS project. As of September 17, 2001, Central's team has tested over 7300 exponents and has used over 3700 years of CPU time. Dr. Curtis Cooper and Dr. Vince Edmondson coordinate the GIMPS project on the Central campus. (Submitted by Ed Davenport.)

Columbia College (Columbia)

We have a new mathematics professor, Ann Bledsoe, who is finishing her PhD in math education at the University of Missouri. She replaces Dr. J. S. Huang who is now an actuary. We are also now offering a math degree. We are hoping to attract more math and science majors to our institution with the addition of the math degree. (Submitted by Kim McHale.)

Culver-Stockton College

Professor Gary Cochell was part of the team of 615 readers that graded the AP Calculus exams this past June in Ft. Collins, CO. He also spent 7 weeks at Cornell University as a Visiting Professor in their Mathematics Department.

Kyle Boone a senior mathematic major spent the summer at the University of Maryland, College Park, in a REU program for Materials Science. (Submitted by Gary Cochell)

Drury College (Springfield)

Our math club runs a tutoring service for students at Drury and holds several social events, both on campus and at the homes of the faculty members. The sponsor for our club is Dr. Charles Allen. The student membership in our department has grown to 60 majors and minors. We have an active undergraduate research program.

Dr. Robert Robertson has joined our faculty. Bob comes to us from Huntingdon College in Alabama and fills the position left vacant by Dr. Pam Reich. Dr. Al Letarte has left Drury for a position in North Carolina. This fall, we will be searching for a replacement for Dr. Letarte to start next fall.

We have a new minor in actuarial science in our department which was designed by Dr. Jackie Miller. At present we have several students who are planning on earning this degree and pursuing careers as actuaries.

Dr. Miller was selected as a Project Next fellow, and Dr. Allen had the opportunity to talk the Project Next group about problem based learning at Mathfest in Madison this summer. The department members are active in research and frequently give presentations at national meetings.
(Submitted by Carol Browning)

Missouri Western (St. Joseph)

We have two new faculty members in our department this year. Dr. Kevin Anderson received his Ph.D. in Mathematics in the area of Abstract Algebra, specifically Map Theory from Kansas State University; and Mr. Jianping Su has a Masters in Computer Science and is currently finishing his Ph.D. in Computational Mathematics.

On March 25, 2001, seventeen new members were inducted into the Missouri Lambda Chapter of Kappa Mu Epsilon. At the initiation ceremony, Dr. Jennifer Hegeman gave a talk entitled "Let Me Count the Ways: A Look at Ancient Numeration Systems."

The student organizations of the department, the Math Club and the Computer Science Club, were inactive. This prompted Dr. Sharon Vestal and C.R. Van Dyke to start a department club that would include students interested in Computer Science, Mathematics, or Physics. Hence, the Missouri Western Matrix was formed. For more information about this organization, go to http://www2.mwsc.edu/orgs/matrix/.

In celebration of Mathematics Awareness Month in April, the mathematics faculty sponsored a Calculus Bee for the students at Missouri Western. The format of the event was similar to MATHCOUNTS in that there was a written portion and a countdown round. For more information and ideas, the web address is http://griffon.mwsc.edu/~sharonv/calcbee/main.html.

The Mathematics faculty continue to support the Problem of the Month contest. To view the rules, problems, and solutions, go to http://griffon.mwsc.edu/~vestal/POTM/rules.html.
(Submitted by Sharon Vestal)

Northwest Missouri State University (Maryville)

Dr. Mary Shepherd (PhD from Washington University) joined our faculty as an assistant professor.
Drs. Christine Benson, Margaret Buerman and Cheryl Gregerson received an NSF grant for PRISM. The PRISM (Promoting Reasoning and Inquiry in Science and Mathematics) project is a three-year project for middle school mathematics and science teachers. (Submitted by Dennis Malm)

Southeast Missouri State University (Cape Girardeau)

Promotions
Dr. Tamela Randolph was promoted to the rank of Associate Professor beginning in Fall 2001.

New Faculty
Dr. Imad Khamis: B.S. Basra University in Iraq, M.S. University of Baghdad, Ph.D. Kansas State University. He comes to Southeast from the Department of Psychiatry and Behavioral Science in the School of Medicine at the University of Miami, Florida. He will be teaching elementary and advanced statistics courses.
Dr. Andrew Lelek: Ph.D. University of Wroclaw, Poland, taught for 10 years at the Institute of Mathematics, Polish Academy of Sciences. In 1970 he came to the University of Houston, and in 1975, became the Editor of the Houston Journal of Mathematics. He retired in 2000, and is teaching part-time this semester.

Cheryl McAllister has ended her half-time assignment in the College of Science and Mathematics Advising Office and has become a full-time member of the Mathematics Department. She is pursuing a doctorate degree at the University of Missouri-St. Louis in mathematics education.

Candide Walton: A.A. Flat River Junior College, B.S. in Education-Mathematics from the University of Missouri-Columbia, MAT Southeast Missouri State University. She taught mathematics at the middle and secondary level. She is currently completing a Ph.D. in Curriculum and Instruction with an emphasis in Mathematics Education at Southern Illinois University-Carbondale.

<u>Mathematics and Statistics Searches in Progress</u>

Applications are currently being accepted to fill two Tenure-track Assistant Professorships in Statistics beginning August 2002. Searches to fill other positions in mathematics will be opened soon. Complete details are available at http://www5.semo.edu/math. (Submitted by Vic Gummersheimer)

Southwest Baptist University (Bolivar)

Retirement: Mr. John Smashey retired after 36 years of service in the mathematics department.

We have hired Dr. Stephen Bowling as his replacement. He received his Ph.D. in mathematics from the University of Arkansas-Fayetteville in 1995.

Dr. Bob Glasgow received his Ph.D. in Mathematics Education from the University of Missouri-Columbia in December, 2000. (Submitted by Kevin Hopkins)

Southwest Missouri State University (Springfield)

Promotion: Larry Campbell (to Professor), Liang-Cheng Zhang (to Professor)

Award: David Ashley (2001 CNAS Teaching Award), Larry Campbell (2001 CNAS Teaching Award), Paula Kemp (2001 University Service Award, University Fellow in Service); Lynda Plymate (2000 MCTM Outstanding Post-Secondary Teacher of Mathematics); Sheri Puestow (2001 SMSU KME Merit Award), Gayla Hobbs (2001 CNAS Outstanding Graduating Senior)

Sabbatical: Kurt Killion (Fall 2001), Yingcai Su (Spring 2002)

External Grant: David Ashley/ Larry Campbell (DESE, 3M); Kurt Killion/Clyde Paul (Eisenhower), Hoon Kim (Missouri Agriculture Dept.); Lynda Plymate (Eisenhower); Yungchen Cheng (NSF) Special Event:
        The Math Awareness Week Contest 2000 was held on April 24 - 28. One question was posted each day during that week. For more information see http://math.smsu.edu/mamcontest.html.
(Submitted by Yungchen Cheng)

St. Charles County Community College

Rich Christianson has joined the mathematics faculty at St. Charles Community College as an Associate Professor.

Carol Page retired from the mathematics faculty in May 2001.
(Submitted by Wanda Long.)

Truman State University (Kirksville)

Promoted to Professor: Robert Cacioppo, Kevin Easley, James Guffey, Shingmin Wang

Tenured and promoted to Associate Professor: Michael Adams

The following were reported too late for inclusion last year.
Appointments to tenure-track Assistant Professor positions in 2000:
Scott Alberts, Statistics, Northwestern; David Garth, Analytic Number Theory, Kansas State University; Hyun-Joo Kim, Statistics, University of Missouri, Columbia; Upendra Kulkarni, Lie Representation Theory, Brandeis; Sanda Micula, Numerical Analysis, University of Iowa; David Neel, Combinatorics, Dartmouth; Pam Reich, Universal Algebra, Iowa State University; Phil Ryan, Representation Theory, Lie Theory, University of California, Berkeley; Scott Thatcher, Algebraic Geometry, Elliptic Curves, Northwestern University

Appointed to tenure-track position in 2001:
Dean DeCock, Statistics and Industrial Engineering, Iowa State University

Starting in the Spring of 2002, the Math and Computer Science Division is starting a program called Undergraduate Scholars in Mathematics in Computer Science which will provide scholarships of up to $3100 (for up to 4 years) for talented students in mathematics or computer science. The program's objectives include increasing the number of students in our program who are from traditionally underrepresented groups, recruiting to our majors "undeclared" students who display mathematical talent, and providing scholastic and career support for these scholarship recipients through tutoring, invited speakers, and job shadowing. This program is partially supported by the National Science Foundation, Division of Undergraduate Education's CSEMS program (NSF DUE #0123094). The program will be administered by Jon Beck (CS), Alan Garvey (CS), Carol Hoferkamp (Stats), Jason Miller (Math), Pam Reich (Math), and Dana Vazzana (Math).

We are very interested in making contacts with mathematicians and computer scientists who work in industry and would be willing to visit our campus to give a colloquium on how they use mathematics or computer science skills in their occupation, or would allow a mathematics or computer science major shadow them during a typical work day or two. If you know of someone we can contact, please email the contact information to Jason Miller, millerj@truman.edu or call him at 660-785-7430.

In the future, we will be happy to share with the newsletter, data on how this scholarship program affects our mathematics and computer science programs. (Submitted by Ron Knight and Jason Miller)

University of Missouri-Rolla

New Faculty Members:
1.   Mohamed Ben Rhouma, Assistant Professor, Ph.D., University of Missouri-Columbia.
        Research area: Differential Equations and dynamical systems.

2.   Miron Bekker, Assistant Professor ,Ph.D., Kiev Institute of Mathematics, Ukraine.
        Research areas: Operator theory, harmonic analysis, control theory, and related problems in
        function theory.

3.   Wlodzimierz Charatonik, Associate Professor, Ph.D., Warsaw, Poland.
       Research areas: Topology, Continuum Theory

4.   Roman Dwilewicz, Associate Professor, Ph.D. and D.Sc., University of Warsaw, Poland.
        Research areas: geometric analysis, algebraic and differential geometry.

On Leave: Martin Bohner, at the Florida Institute of Technology.

UMR MAA Student Chapter:
        Sponsor: Professor Rob Roe
        Activities: Faculty and student presentations. Participation in the Girl Scout "Bridging the Gap"
        program.
        Fundraising activity: Mailings for "AMC 8" math competition.

Department Projects: (Teaching Strategies, Grants, Organization, etc.)
        New Department Web Page: www.umr.edu/~mathstat

Making Sense of Data -- Workshop for Elementary School/Middle School/High School teachers directed
    by Dr. Samaranayake on an Eisenhower Grant

Professor Gary Gadbury: 1. USDA Forest Service Grant: Small area estimation for national forests using
forest inventory and analysis survey data. 2. University of North Carolina--Greensboro, SERVE and
NSF: ESR Student Achievement Data Set Analysis.

Professor Kevin Pilgrim: NSF Grant "Structure of Expanding Rational Maps as Holomorphic Dynamical
    Systems"

Professor Rob Roe graded AP Calculus exams this past summer.

Department gave "Excellence in Mathematics" awards to the following Missouri High Schools based on
their graduates' performance in mathematics during their freshman year at UMR: Francis Howell (St.
Charles), Francis Howell North (St. Charles), Jackson, Helias (Jefferson City), Lafayette (Ballwin),
Carthage, Duchesne (St. Charles), Mehlville, Neosho, Potosi, Raytown, Raytown South, Springfield
Catholic

Outstanding Teaching Awards for 2000-2001:
     Murat Atmaca: Outstanding Graduate Teaching Assistant Award.
     Professor Tom Akers: Outstanding Teaching Award.
     Professor Vy Le: Outstanding Teaching Award.
     Professor Tom Ingram: Outstanding Teaching Award.
(Submitted by Tim Randolph)

University of Missouri-St. Louis

Dr. Wayne McDaniel has retired from the Department of Mathematics and Computer Science. He came to UM-St. Louis in 1964, at the inception of the St. Louis campus. He played a key role in the early formative years of the Department. He was a highly regarded number theorist and a highly regarded teacher.

Dr. Steven Selesnick has retired from the Department of Mathematics and Computer Science. He came to UM-St. Louis in 1980. His research spans diverse areas such as Hopf Algebras, Category Theory, and Quantum Mechanics. (Submitted by Ron Dotzel)

Washington University (St. Louis)

Professor Steve Krantz continues as Department Chair. Professor Richard Rochberg is the new Associate Chair.

Prof. John Shareshian (Ph.D., Rutgers, 1996) has joined our department as a new Assistant Professor. Professor Shareshian works in combinatorial algebra.

The Undergraduate Math Club is meeting on a regular basis. Recent faculty talks have included "Bertrand's Paradox" (Prof. Steve Krantz) and "Geometry in (Very) High Dimensions" (Prof. Renato Feres).

Professor Ed Spitznagel was honored to be a recipient of the Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics. He became a candidate for this award when he was selected by the Missouri Section of the MAA last spring as the recipient of the Section's teaching award. The Haimo award will be presented at the January 2002 Joint Mathematics Meetings in San Diego, California. The fact that Frank Haimo taught in our department for many years, and that Debbie Haimo taught at UMSL, makes the recognition that much more special. The Undergraduate Math Club/Pi Mu Epsilon is sponsoring a series of talks for undergraduates by faculty and other students. (Submitted by Ronald Freiwald.)