

MEETING ANNOUNCEMENT

To: All Missouri Mathematicians

From: Renato Feres, Chair of the MAA Missouri Section

We at the **Mathematics Department of Washington University in St. Louis** are looking forward to hosting the **Spring Meeting of the Missouri Section of the Mathematical Association of America** on **April 4 and 5, 2003**. 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 3rd, and Friday morning, April 4th**. Complete details appear later in this newsletter.

We are delighted to announce that the following invited speakers have confirmed their participation: **Ronald L. Graham**, President-Elect of the MAA, will be the featured MAA speaker on April 4th, **Edward Burger**, of Williams College, will be our featured speaker on April 5th, and **Robert Sheets**, the 2002 recipient of the MAA Missouri Section Distinguished Teaching Award, will deliver the banquet address, on April 4th.

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 Renato Feres, 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	2004	Southeast Missouri State University
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: by mail to:

Renato Feres
Department of Mathematics - Campus Box 1146
Washington University
One Brookings Dr.
St. Louis, MO 63130

or electronically, as a PDF file, to feres@math.wustl.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 1, 2003**.

Congratulations to Professor Al Tinsley

Congratulations to **Dr. Alvin Tinsley** of the Department of Mathematics and Computer Science at Central Missouri State University who is the 2002 recipient of the Meritorious Service Award for the MAA Missouri Section. Dr. Tinsley will be recognized at the Joint Mathematics Meetings in Baltimore in January 2003.

Dr. Tinsley served as Section Vice-Chair/Chair/Past-Chair (1993-1996) and served on the Section Meeting Arrangements Committees in 1978, 1985, 1995, and 2000. At Central Missouri State University, he co-founded and co-sponsored the MAA Student Chapter (1994-present) and served as the MAA Departmental Liaison (1991-1994). He participated in the MAA High School Lectureship Program from 1977 to the present. For twenty-four years he served as the American High School Mathematics Examination Regional Coordinator for Missouri (1975-1999). While Regional Coordinator, he instituted

the Missouri State Governor's Award for the Missouri high school student who achieved the highest score on the examination. Al was a key player in the initiation of the annual Missouri Section 5K Run/Walk (1985) and the Section-sponsored Missouri Collegiate Mathematics Competition (1996).

At the national level, Dr. Tinsley served as the Missouri Section Governor (1997-2000), a member of the MAA Committee on American Mathematics Competitions (1988-1992), and a member of the Advisory Panel of the MAA Committee on American Mathematics Competitions (1990-1997).

For more than a quarter of a century, Al Tinsley has played a major role in shaping the Missouri Section and is most deserving of this Meritorious Service Award recognizing his commitment and leadership.

From the Governor

Vic Gummersheimer (SEMO)

The Board of Governors met on July 31 during Mathfest 2002 in the Sheraton Hotel in Burlington, VT. As usual the agenda of the meeting was sent to us in advance and consisted of a booklet of items that required our full attention from 9:00 am to 5:00 pm.

President Ann Watkins presided at the meeting. She appointed four committees: Committee to Search for an Editor for the *College Mathematics Journal*-Paul Zorn, chair; Committee on Graduate Students-Louise Raphael, chair; AMS-MAA Local Arrangements Committee for Baltimore-George Mackiw, chair; and Committee to Search for an Editor of *Math Horizons*-Joseph Gallian, chair.

Locations for future meetings were discussed. The Governors approved San Diego for the 2008 meeting and Washington DC for the 2009 meeting.

Treasurer John Kenelly made three observations in his report to the Board. The MAA is a dues driven organization and that income is flat, therefore, if we are to expand our services to the members, we must develop additional revenue streams. Second, we do not have an adequate "rainy day" fund in our building operations account. Finally, the endowment level of the association is short of what are accepted standards for base funds that enable an organization to "ride out peaks and valleys" in its income stream. John indicated that for the rest of his tenure in office, he will be especially involved in development.

Tina Straley, the Executive Director, reported that membership is high, attendance at the national meetings this year was excellent, and external support is considerable. Grants have been received from the Akamai Foundation, the AMS, the Dolciani-Halloran Foundation, and the NSF. More than 10 projects are currently active or in the process of being awarded by NSF. Technology initiatives continue to grow with improvements and additions to MAA Online, MathDL, and the redesign of the MAA website. The association management software has been installed and now e-commerce and interactivity is being added to the website.

Donald Albers is the Associate Executive Director and the Publications and Electronic Services Director. After a very slow last quarter of 2001, book sales began to recover during the first quarter of 2002. Sales

for the first half of 2002 were well ahead of 2001 sales for the same period. Sale of MAA books through Amazon are running at about \$10,000 per month. Barnes & Noble Online will begin selling MAA books this year. Additional sales should be coming when e-commerce is fully implemented on the MAA website. Don enumerated and commented on the new releases for 2002; they are all selling well.

J. Michael Pearson has replaced Thomas Rishel as the Programs and Services Director. He reported on the PREP Program, the Grant Writing Workshops, Short Courses, and SIGMAAs. We now have four SIGMAAs: RUME, STATS-ED, BIG, and HOM. A fifth SIGMAA is getting started in the area of Environmental Mathematics.

Jim Gandorf, the Membership Director, reported that the April 31, 2002 total membership was 23,663, which was 3.49% higher than last year's count of 22,865 on the same date. On the date of this meeting (July 31, 2002), the total stood at 24,007.

The Board of Governors approved six Section Awards for Meritorious Service. Congratulations to Alvin Tinsley of Central Missouri State University from our Section. The other winners were Larry J. Morley (Illinois), Karin Chess (Kentucky), Lester H. Lange (Northern California), Fredric Tufte (Wisconsin), and Luise-Charlotte Kappe (Seaway). The Awards will be presented during the AMS-MAA meeting in Baltimore in January.

The CBMS2000 survey detected a substantial shift between fall 1995 and fall 2000 in the way that colleges and universities staff their mathematics departments and programs. In mathematics departments of four-year colleges and universities, there has been a marked decline in the number of tenured and tenure-eligible faculty, coupled with a substantial increase in part-time faculty and in full-time faculty who are neither tenured nor tenure eligible. The Board of Governors passed a resolution that recommends that in staffing their programs mathematics departments and programs not run counter to the MAA Departmental Guideline concerning over-reliance on part-time faculty.

The Board also passed a resolution concerning dual enrollment courses. Part of the resolution reads as follows. "The Board of Governors of the Mathematical Association of America recommends that dual enrollment courses in mathematics should meet the same academic standards as other courses of the post-secondary departments and programs that grant the dual enrollment college credit. In particular, the Board recommends that instructors in dual enrollment mathematics courses meet the mathematics educational requirements outlined in the MAA Departmental Guidelines document. The Board further recommends that the mathematics program or department awarding college credit for a dual enrollment course supervise the choice of textbook, the course syllabus, the design of the final examination, and the choice of the course instructor in the dual credit course to the same degree that it supervises those aspects of mathematics courses taught by other part-time faculty."

Because my term as Governor of the Missouri Section expires in July, the national MAA office will soon be conducting an election to select the next Governor. I have thoroughly enjoyed my work in this office and encourage you to consider entering the election.

MAA High School Visiting Lecturer Program for 2002-2003

All university and college mathematics teachers are invited to participate in the MAA High School Visiting Lecturer Program for 2002-2003. Please use a copy of the form below to indicate your willingness to be a lecturer and the topics you would like to have listed as ones from which a host high school may choose. If you participated last year and would like to offer the same topics, you may also indicate that on the form. (You will find a list of topics from last year on the web page <http://momaa.math.ums.edu/hslec.html> .) For presentations that are new to this list, please include a short abstract. In some cases, it might also be appropriate to indicate the courses or topics that you consider prerequisite to the presentation. The titles and abstracts, along with your name, will be provided to high school teachers who request information about the program and will also be posted on our web page.

High school teachers are encouraged to participate in this program. There is no cost to the teacher or high school. Participation in the program is intended not only to encourage students in their mathematical learning, but also to provide links between high school teachers and college/university faculty. Teachers are directed to see the web page for more information. <http://momaa.math.ums.edu/hslec.html>

Thank you for your support of this program. If you have questions or suggestions, please contact:

Rhonda McKee, Coordinator
MAA Missouri High School Visiting Lecturer Program
Central Missouri State University
email: mckee@cmsu1.cmsu.edu

Name:

College/University:

Office Phone:

Email:

I would like to offer the same topics I offered last year.

I would like to offer the topic(s) listed below.

Name of presentation:

Abstract:

CALL FOR NOMINATIONS

2003 MISSOURI SECTION AWARD FOR DISTINGUISHED COLLEGE OR UNIVERSITY TEACHING OF MATHEMATICS

Nominations for the 2003 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 2003 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 2004 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.

Procedures

- Nominations must be submitted on the "**Nomination Form**" found on the Missouri Section web page at <http://momaa.math.umn.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.umn.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 Ed Spitznagel, Chair of the Selection Committee, at the address below so as to be received no later than **December 20, 2002**. Nominations for candidates who are not members of the Missouri Section should be sent to the Secretary of the nominee's Section.

Dr. Ed Spitznagel
Dept. of Mathematics
Campus Box 1146
Washington University in St. Louis
St. Louis, MO 63130

MAA Missouri Section Governor

The members of the Missouri Section of the Mathematical Association of America will be electing a governor for a three-year term to succeed Dr. Victor Gummertsheimer whose term expires July 1, 2003. A nominating committee is being formed, and nominations will be solicited from the members of the MAA Missouri Section. Please consider nominating your colleagues or allowing your name to be entered into nomination. The list of nominees needs to be submitted to the national office by Nov. 15, 2002.

Quoting from a letter from Tina Straley, Executive Director of the MAA, "The nominating committee should select, as candidates for office, members who have demonstrated a high level in the Association through their active participation. The committee should strive to select candidates who would be

reasonably certain of attending meetings of the Board of Governors, and whose position in the mathematical community indicates they would serve as an active and responsible representative of the Section on the Board of Governors.”

Missouri MAA Collegiate Mathematics Competition

The seventh Missouri Collegiate Mathematics Competition will be held Thursday, April 3, 2003 and Friday, April 4, 2003 on the campus of Washington University in St. Louis, 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. 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 3 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 4 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 Don Vestal (MWSC). 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. The registration form is available at http://www.math-cs.cmsu.edu/~curtisc/contest/contest_registration_form. 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.

Past contests, solutions, pictures, etc. can be found at <http://www.math-cs.cmsu.edu/~curtisc/contest.html>. Any questions about the competition can be sent to

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From the Campuses

Central Missouri State University (Warrensburg)

Faculty News

Dr. Robert Kennedy retired at the end of August 2002 after serving at Central for thirty-five years.

Dr. Alvin Tinsley will retire at the end of December 2002 after serving at Central for more than thirty-four years.

Dr. Shing So was named a recipient of the Byler Distinguished Faculty Award in April 2002. This is the highest honor a Central faculty member can receive.

Student Organization News

Secondary Mathematics Educators (SME) is a student organization for mathematics majors with an emphasis in secondary education. The group currently has approximately 20 members and meets monthly. Programs include presentations by university faculty, student members, or area high school teachers. Occasional field trips to high schools are planned. Sponsors of SME are **Dr. David Ewing** and **Dr. Cindy Ramey**. (Submitted by Ed Davenport.)

Culver-Stockton College (Canton)

The Math. Dept. here at Culver-Stockton College moved into the new Science Center building that opened here three weeks ago. **Dr. Gary Cochell** spent the summer on the road again. In June, he graded AP Calculus exams for ETS along with 650 others from throughout the U.S.A., and from June 24 through August 6 he taught in the Cornell University Math. Dept. Our Math. Club is already planning for our annual campus Quiz Bowl that the club sponsors. (Submitted by Gary Cochell)

Missouri Western (St. Joseph)

We have three new members in the department. **Dr. Jeff Poet** was hired in a tenure-track mathematics position. Jeff received his PhD from the University of Wyoming in 1998 and taught for the past four years at Ottawa University in Ottawa, Kansas. **R.E. Moore** was hired as the Director of the Developmental Mathematics Program. R.E. came to Missouri Western from the insurance industry. **Deborah Becker** was hired as a Computer Literacy Instructor. Deborah taught at Southwest Missouri State University as a lecturer for the past two years.

This semester we hosted artist **Dick Termes**, who appeared in the September 2001 issue of Math Horizons. Mr. Termes gave a lecture on his "Termespheres" on Thursday, September 19th to a crowd of about 80 people. On Friday, September 20th, he conducted a two-hour Polyhedron Workshop for about 30 faculty and students.

Jerry Wilkerson retired in August after teaching here for 38 years. We miss having Jerry around, but we do see him once in a while as he is conducting planetarium shows for the department. (Submitted by Sharon Vestal)

Northwest Missouri State University (Maryville)

Dr. Kendall McDonald retired after 32 years of service to Northwest.

New faculty: **Mr. David Vlieger** who comes ABD from the University of Missouri-Rolla as an Assistant Professor and **Ms. Monika Keindl** who has two master degrees from Arizona State University as an instructor.

Also, we are in the final year of an NSF grant aimed at middle school math and science teachers. It was funded for three years at about \$1.4 million. (Submitted by Dennis Malm)

Saint Louis University

Newly promoted to Associate Professor with Tenure is **Darrin Speegle**, who has been in our department since 1997. **Fr. Michael May**, our former department chair, moved this past summer to the position of Acting Dean of the College of Arts and Sciences at Saint Louis University. **James Hebda** is now serving as our department chair.

Joining us this fall as an Assistant Professor in a tenure-track position is **David Letscher**, who received his PhD from the University of Michigan in 1997 and comes to us from Oklahoma State University in Stillwater. Also joining our faculty are **Blake Thornton**, who received his PhD from the University of Utah this year and **Charles McGibbon** who received his PhD from the University of Wisconsin, Madison in 1977 and has spent most of the intervening years at Wayne State University. (Submitted by Raymond Freese)

Southeast Missouri State University (Cape Girardeau)

New Faculty

Pradeep Singh has a B.Sc. from Kurukshetra University (Haryana, India), M. Sc. Statistics from Haryana Agricultural University (Hisar, India), and Ph.D. Statistics (Mississippi State University).

During the last three years, he has been at Penn State Erie-The Behrend College. He will be teaching Statistical Reasoning, Elementary Probability and Statistics, and advanced statistics courses.

Larry Clair and **Sunshine Gibbons** have completed two years as teaching assistants and accepted full-time non-tenure track positions. **Linda Tansil** has move from half-time in the College Advising Office and half-time in the Computer Science Department to a full-time non-tenure track position.

Change in Position

Neal Peterman retired in August 2002 after 38 years at Southeast. **Tamela Randolph** was tenured beginning Fall 2002. **Candide Walton** completed a Ph.D. in Curriculum and Instruction with an emphasis in Mathematics Education at Southern Illinois University-Carbondale this summer.

Awards

Robert Sheets received the 2002 Distinguished University Teaching of Mathematics Award from the MAA Missouri Section. The College of Science and Mathematics presented the Service Award to **Craig Roberts** and the PRIDE Award for Teaching, Research, and Service to **Tamela Randolph**.

Position Searches

The Mathematics Department is currently conducting searches to fill **two tenure-track positions** in any area of mathematics. (Submitted by Vic Gummersheimer)

Southwest Missouri State University (Springfield)

Promotion: Wenxiong Chen (to Professor)

New Faculty: Jorge Rebaza (Ph.D., 2002, Georgia Institute of Technology, Applied Mathematics)

Retirement: Shirley Huffman (December 2001), **Frank Gillespie** (August 2002), **Woodrow Sun** (December 2002)

Award: David Ashley (2001 MCTM Outstanding Post-Secondary Teacher of Mathematics), **Larry Campbell** (2001 LeRoy Sachs Award), **Paula Kemp** (2002 University Research Award), **George Mathew** (2002 University Teaching Award), **Jack McCush** (2002 SMSU KME Merit Award), **Abby Cossiboom** (2002 CNAS Outstanding Graduating Senior)

Sabbatical: Kanghui Guo, Kishor Shah, Clay Sherman, Kurt Killion (Fall 2002), **Richard Belshoff, Xingping Sun** (Spring 2003)

Leave: Wenxiong Chen, Hoon Kim (2002-2003)

Internal Grant: Lynda Plymate (2002 Summer Faculty Fellowship)

External Grant: **David Ashley/Larry Campbell** (DESE, *Third Annual Conference for Missouri Pre-Service Mathematics Teachers*); **Yungchen Cheng** (with **Ken Vollmar**, NSF, *Computer Science, Engineering, and Mathematics Scholarships*), **Kurt Killion/Clyde Paul** (Eisenhower, *Integrating Technology in Elementary/Middle School Mathematics*) (Submitted by Yungchen Cheng)

University of Missouri-Kansas City

The University of Missouri has a Very Early Retirement Incentive Program (VERIP) available for people who retire by Jan. 1, and most of our department will be taking the package and retiring at the end of the year. Currently we have six tenure-track mathematics faculty, and five will retire: all of the full professors, **Phil Barker**, **Jim Foran**, **Tom Kezlan**, and **Bruce Wenner**, and associate professor **Larry Eifler**. We will also lose two full-time non-tenure-track math faculty, **Lee Hart** and **Paul Vesce**.

To date, the campus administration has been unwilling to commit to any rehires for next semester or for replacement faculty for next year. Clearly the department has a desperate need for both just to keep mathematics alive at UMKC. Hope we will have better news soon, but that's the situation today.
(Submitted by Bruce Wenner)

Washington University (St. Louis)

The department has one new faculty member this year, Assistant Professor **Zhengjun Zhang**, a statistician. (Ph.D, University of North Carolina at Chapel Hill, 2002; Ph.D., Beijing University of Aeronautics & Astronautics (Management Engineering), 1996)

The Math Club is coordinated by Professor **Nik Weaver** and meets on average about twice a month. The first three meetings have included the film "Inverting the Sphere", a talk by Professor Weaver ("Doing Calculus on a Fractal") and by senior major **Adam Marcus** ("Minimal regular k-graphs of girth 5").

A committee, chaired by Prof. **Renato Feres**, is working on the preparations for the spring section meeting to be held April 4-5, 2003 at Wash. U. (Submitted by Ronald Freiwald.)