

# MAA MISSOURI SECTION NEWSLETTER

## WINTER 2011 • VOLUME 31 • NUMBER 2

### 2011 MO MAA SPRING MEETING

All of us here in the Computer & Mathematical Sciences Department of Columbia College are busily preparing for the Spring Meeting which we will be hosting Thursday March 31-Saturday April 2, 2011.

Registration for the meeting is now open at

<https://bilbo.ccis.edu/maa-momatyc-2011/registration>.

Abstracts for talks can be submitted to me until March 1. For more information see:

<https://bilbo.ccis.edu/maa-momatyc-2011/speakers>

We are meeting jointly with the Missouri Mathematical Association of Two Year Colleges (MOMATYC) and as a result the schedule for this year's meeting will be somewhat different. Everyone is invited to a buffet lunch on Friday sponsored by MOMATYC. The lunch costs \$10 and you sign up for this meal on the registration form. Note: If you are participating in the contest, there will be a pizza lunch following the Friday morning session as usual. Also, we will not have a breakfast for Chairs and Liaisons on Saturday morning. Instead, there will be a continental breakfast available for all conference participants.

At the Saturday morning business meeting we will be voting on the revised Section By-Laws (the proposed by-laws are below) and discussing a possible merger with the Iowa, Kansas, and Nebraska/South Dakota sections (see the Governor's Report for more information). Please plan to stay for this important part of our meeting!

Finally, I received a suggestion from Rick Gillman, Chair of the MAA Committee on Sections, that we discuss the **Common Core State Standards at the Spring Meeting**. Rick writes "These standards have been adopted by over 2/3rds of the states and will almost certainly have an impact on the preparation and professional development of teachers. This is a tremendous opportunity for cooperation between the mathematics community and our teachers in K12 as states gear up to meet the challenges of these standards. This seems to be a natural topic for sections to incorporate at upcoming meetings by having a session on the Common Core Math Standards at the upcoming spring meetings. There is a chance that the progression documents which are being written now will be available in the spring, but the standards are out and can be discussed. It would be useful to have three talks, one on the early grades, one on middle grades and one on high school." Please contact me if you would be interested in chairing such a discussion.

I look forward to seeing you in April meeting!

Suzanne Tourville  
Section Chair

## 2011 MAA MO Section Meeting Tentative Schedule

### Thursday, March 31

7:30—10:00 PM Collegiate Mathematics Competition. Southwell Gymnasium

### Friday, April 1

8:30 – 5:00 PM Registration, Dulany Hall Foyer

8:30 – 5:00 PM Displays & Exhibits, Cougar Room, Dulany Hall

8:30 – 11:00 AM Collegiate Mathematics Competition, Southwell Gymnasium

8:30 – 10:45 AM Project NEXt Workshop, Lee Room, Dulany Hall

8:30—9:45 AM MOMATYC Conference Opening, Launer Auditorium

MOMATYC Keynote Address  
*Transition to College Mathematics*  
David Bressoud, Macalester College

10:00—12:15 PM MOMATYC Breakout Sessions, Brown Hall

12:15—1:45 PM MOMATYC Lunch (MAA invited), Dulany Banquet Room

2:00 – 2:50 PM MAA Conference Opening, Launer Auditorium

MAA Polya Lecture  
*Algorithms Meet Art, Puzzles, and Magic (Tentative)*  
Erik Demaine, MIT

3:10 – 5:35 PM MAA Contributed Papers, Brown Hall

3:15—5:30 PM MOMATYC Breakout Sessions, Brown Hall

6:15 – 8:15 PM MAA Banquet, Awards, and Lecture, Dulany Banquet Room

*Under the Influence: A reflection on teachers of my past, stories of the present, and dreams of the future*  
Jeff Poet, Missouri Western University  
Missouri MAA 2010 Teaching Award Winner

8:30 – 9:30 PM Executive Committee Meeting

### Saturday, April 2

7:00 – 8:00 AM 5K Run/Walk

8:00 – 8:45 AM	Continental Breakfast, Dulany Hall
8:00 – 10:00 AM	Registration, Dulany Hall Foyer
8:00 – 10:00 AM	Displays and Exhibits, Cougar Room, Dulany Hall
8:30 – 9:50 AM	MAA Contributed Papers, Brown Hall
8:45 – 11:00 AM	MOMATYC Breakout Sessions, Brown Hall
10:00 – 10:50 AM	MAA Invited Address, Launer Auditorium <i>Stories from the Development of Real Analysis</i> David Bressoud, Macalester College
11:00—11:50 AM	MAA Business Meeting, Launer Auditorium

## **2011 UCM Regional Undergraduate Mathematics Conference University of Central Missouri Saturday, March 12, 2011**

The conference will begin with a plenary lecture given by Dr. Dale Bachman of the University of Central Missouri and will be followed by several 15-20 minute contributed undergraduate talks. A continental breakfast will be provided during registration and lunch will be provided between the morning and afternoon sessions. We encourage undergraduates at all levels to submit an abstract for a talk in any area associated with mathematics, its applications, its history, or its education. The deadline for submitting abstracts is March 7, 2011. Further information and registration instructions can be found at the conference website

[www.math-cs.ucmo.edu/~CUMC](http://www.math-cs.ucmo.edu/~CUMC)

If you have any questions, please contact us. We look forward to seeing you in March!

Nicholas Baeth, [baeth@ucmo.edu](mailto:baeth@ucmo.edu)

Lianwen Wang, [lwang@ucmo.edu](mailto:lwang@ucmo.edu)

## **Newsletter Editor and Web Page Administrator Nominations**

Nominations for the positions of Newsletter Editor and Web Page Administrator are now being accepted. Each is a 3-year position.

The Newsletter Editor publishes the Section Newsletter on a regular basis, keeping the Section membership informed of all regular and special meetings and other pertinent information

The Web Page Administrator maintains the Section's web page, keeping the contents up-to-date and posting newsletters, meeting information, and other relevant items as they become available.

Please send nominations to the Section Chair Suzanne Tourville at [setourville@ccis.edu](mailto:setourville@ccis.edu). Nominations will be forwarded to the nominating committee.

## Missouri NExT Spring Program

### Call for applications from first time participants.

The Spring 2011 Meeting of the Missouri NExT Fellows will be a Friday morning workshop, on April 1st, 2011 at Columbia College, just prior to the Spring Missouri Section meeting. At the workshop, the Fellows will have a chance to interact with one another while attending sessions dealing with different aspects of our profession.

#### PROGRAM:

8:30-8:45	Coffee and Continental Breakfast - Meet and Greet!	Dulany Hall
8:45-9:45	<b>Session 1:</b> Dr. David Bressoud, on the "Issue of transition to CollegeMathematics" (joint with MOMATYC)	Launer Auditorium
9:45-10:00	Coffee break	Dulany Hall
10:00-11:00	<b>Session 2:</b> Drs. Christine Stevens, Jeffrey Poet, and Les Reid "Looking towards tenure: Finding your niche"	Lee Room , Dulany Hall
11:15	Lunch (joint with math competition participants)	Southwell Gymnasium

After the workshop, the Fellows will attend the regular Section meeting and participate in the opportunities and activities the meeting will provide.

It is anticipated that contact between fellows will continue through the year, both electronically and in person. Fellows will be linked in an electronic network with one another and with a number of distinguished teachers of mathematics. Possible topics for future discussion include methods of teaching, using technology and writing in the classroom, effective assessment and evaluation practices, mathematical resources on the web, applying for grants, tenure and promotion issues, interdisciplinary programs, assessment issue, and balancing faculty members' roles as teachers and scholars and human beings with personal lives!

[http://web.missouri.edu/~aubreyja/mo\\_next/application.html](http://web.missouri.edu/~aubreyja/mo_next/application.html)

**SUPPORT:** Expenses for the Friday morning program including breakfast and lunch, and full registration costs for the Missouri Section Spring meeting will be covered for new Fellows. The remainder of the expenses should be covered by the Fellows' home institutions. However some funds may be available for accommodation costs in cases where the Fellow's home institution is not able to cover these costs (see application form). Financial support for this program is provided by the Missouri Section of the MAA and by another grant.

**TO APPLY:** Send completed application form for New Participants by March 15th, 2011 to:

Zdeňka Guadarrama, Missouri NExT Organizer  
 Department of Mathematics and Physics  
 Rockhurst University  
 1100 Rockhurst Road  
 Kansas City, MO 64110

E-mail: [guadarrama@rockhurst.edu](mailto:guadarrama@rockhurst.edu)  
 Phone: (816) 501-4526  
 Fax: (816) 501-4259

## Missouri Collegiate Mathematics Competition

The fifteenth Missouri Collegiate Mathematics Competition will be held Thursday, March 31, 2011 and Friday, April 1, 2011 in Southwell Gymnasium on the campus of Columbia College in Columbia, 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, 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 be allowed if this person is his or her college's only representative in the competition. A completed registration form for each team must be received by Monday March 28, 2011. Late registration will be accepted only if there is room available. No calculators or computers or reference material can be used during the competition. The contest consists of challenging mathematical problems, comparable to but not quite as difficult as the Putnam Exam.

The first session will begin on Thursday evening at 7:30 pm and last until 10 pm and the second session will begin on Friday at 8:30 am and will end at 11 am. There are five problems in each session. Each problem will be worth 10 points and will be scored by a committee of the MAA Missouri section. Some partial credit may be earned for substantially correct work toward a solution to the problem. The team earning the highest total points is the winner. In case of a tie, the committee will vote to determine the winning team.

The registration fee is \$90 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  
University of Central Missouri  
Warrensburg, MO 64093  
(660) 543-8851  
fax: (660) 543-8013  
email: cooper@ucmo.edu

P.S. The Missouri Collegiate Mathematics Competition home page can be accessed directly with the URL <http://www.math-cs.ucmo.edu/~hchen/contest/>

## REVISED SECTION BY-LAWS

At the spring meeting, the section will vote on a revised set of by-laws. The revision was undertaken at the request of the national MAA. In the proposed by-laws you will see that some changes were made to the composition of the Section Executive Committee and more explicit descriptions of the duties of all positions were added. The main difference you will see is that a description of committees of the section has been added. You may compare these to the current by-laws, dated 1993, which can be found at:

[sections.maa.org/bylaws/missouri-bylaws.pdf](http://sections.maa.org/bylaws/missouri-bylaws.pdf).

Please direct any comments or questions to Susan Callahan, [scallahan@cottey.edu](mailto:scallahan@cottey.edu). Susan reports that in approximately four and a half pages of by-laws, only ten sentences have not been changed. Thanks to Susan for chairing this process!

### Bylaws of the Missouri Section of the Mathematical Association of America

#### ARTICLE I Name and Purpose

1. The name of this section shall be the Missouri Section of the Mathematical Association of America (MAA).
2. The purpose of the Missouri Section shall be to advance the mission of the MAA on the section level; to offer guidance to the MAA as it forms and fulfills its mission; to provide professional development and networking activities for Section members and mathematics students; and to promote discussion and action on issues affecting mathematics teaching, learning, and research in the Section.

#### ARTICLE II Membership

The membership of the Missouri Section shall be members of the Mathematical Association of America whose MAA mailing addresses are in Missouri, postal codes 63000 to 65899. Exceptions may be made by the MAA headquarters office upon request of the affected member.

#### ARTICLE III Officers

1. The officers of the Section shall be a Chair, a Vice-Chair, a Past-Chair, a Secretary-Treasurer, a Newsletter Editor, a Web Page Administrator, a Liaison Coordinator, and a Student Chapter Coordinator.
2. The Executive Committee shall consist of the officers of the Section and the Section Governor. Each member of the Executive Committee shall be a voting member.
3. The officers shall be members of the MAA and of the Missouri Section.
4. A Vice-Chair shall be elected annually at the annual meeting of the Section, will automatically become the Chair at the conclusion of the next annual meeting, and will become the Past-Chair at the conclusion of the following annual meeting. The Secretary-Treasurer, the Newsletter Editor and the Web Page Administrator shall serve three year terms staggered so that the term of one of these three officers expires each year. The Liaison Coordinator and the Student Chapter Coordinator shall serve three year terms.

The Chair of the Section shall vote in the election of officers only when necessary to resolve a tie.

Officers elected during a meeting shall assume office upon the adjournment of that meeting. All officers shall be eligible for re-election at the end of their respective terms.

5. Each fall the Chair will appoint a nominating committee consisting of three section members to select a slate of officers for the positions open that year. Additional nominations may be made from the floor by section members before the election.
6. The Chair shall preside at all meetings of the Section and the Executive Committee. The Chair shall execute the affairs of the Section and shall be responsible for long-term planning to promote the vitality of the Section. The Chair shall oversee the planning for the annual section meeting, shall appoint all committees except as provided for otherwise in these bylaws, and shall be an ex-officio member of all committees, unless otherwise directed by the members at a meeting.

The Vice-Chair shall assume the duties of the Chair at Section meetings and at meetings of the Executive Committee in the absence of the Chair. The Vice-Chair shall be a member of the Program Committee.

The Past-Chair shall serve as a resource to the other officers and shall chair the Program Committee. The Past-Chair shall assume the duties of the Chair in the event that both the Chair and Vice-Chair are absent.

The Secretary-Treasurer shall keep minutes of official meetings, maintain and preserve the records of the Section, and send an annual section report to the Committee on Sections. The Secretary-Treasurer also shall receive all monies paid into the Section and deposit such money in a bank to the account of the Section, pay all bills of the Section out of Section funds with the approval of the Chair, maintain accurate records of the Section's finances, and file an annual financial report with the MAA headquarters office.

The Newsletter Editor shall publish the Section Newsletter on a regular basis, keeping the Section membership informed of all regular and special meetings and other pertinent information.

The Web Page Administrator shall maintain the Section's web page, keeping the contents up-to-date and posting newsletters, meeting information, and other relevant items as they become available.

The Liaison Coordinator shall communicate with campus liaisons regarding MAA business.

The Student Chapter Coordinator shall support existing student chapters in the Section and shall encourage and facilitate the formation of new student chapters.

7. The Executive Committee shall conduct the affairs of the Section between meetings.
8. The Executive Committee is empowered to fill any vacancy among the officers of the Section until the next annual meeting when an election will be held to fill a position with an unexpired term. If the position of Vice-Chair is filled by appointment, a Chair will be elected at the next annual meeting.

#### ARTICLE IV Meetings

1. The Section shall hold at least one meeting each year.
2. The time and place of meetings shall be decided by the Executive Committee unless otherwise designated by a resolution by the members at a meeting.
3. The Program Committee shall be responsible for planning the major speakers for meetings. Planning for all other aspects of meetings shall be the responsibility of committees appointed by the Chair.



4. A special business meeting may be called by the Executive Committee. Also, a special business meeting shall be held if a petition requesting such a meeting and signed by 15 members of the Section is submitted to the Chair.
5. Each member of the Section shall be notified in writing or electronically 20 days in advance of any regular or special business meeting of the Section.
6. A quorum shall consist of not fewer than 15 members of the Section, and no business may be validly transacted at meetings where less than a quorum is present.

ARTICLE V  
Fees and Use of Assets

1. Members of the Section shall not be assessed dues. However, the Executive Committee may set a registration fee at meetings of the Section provided this fee is approved at the business meeting of the Section. Such fees shall be used to help pay the expenses of conducting the business of the Section.
2. The assets of the Missouri Section shall be used exclusively to further the purposes of the Section. In the event of the dissolution of the Section, the remaining assets shall be turned over to the MAA to be used for purposes consistent with the bylaws of that organization.

ARTICLE VI  
Committees

1. The standing committees of the Section shall be the Teaching Award Selection Committee, the Missouri Collegiate Mathematics Competition Committee, the Program Committee, and the Nominating Committee.
2. The Teaching Award Selection Committee is responsible for reviewing the nominations for the Missouri Section Award for Distinguished College or University Teaching of Mathematics, selecting the recipient, and reporting to the Secretary-Treasurer in a timely fashion.

The members of the Teaching Award Selection Committee are the three most recent recipients of the award. If such an individual is unwilling or unable to participate in the selection process during a given year, the Section Chair will appoint a section member to serve on the Committee for that year.

The Teaching Award Selection Committee shall be chaired by the longest-serving previous awardee who is actively serving on the Committee.

3. The Missouri Collegiate Mathematics Competition Committee is responsible for all aspects of the Competition, including writing and grading problems, establishing appropriate rules, setting entry fees, publicizing the Competition, and working with the host school to ensure that adequate facilities are available.

This committee shall be chaired by the Competition Coordinator. The Competition Coordinator shall be a member of the Missouri Section and shall be appointed by the Chair. The Competition Coordinator shall ordinarily serve until he/she retires from the position; however, he/she may be removed and replaced by the Executive Committee if the Executive Committee deems that this action is in the best interests of the Section.

The members of the Competition Committee shall be members of the Missouri Section. Members are invited to serve on the Committee by the Competition Coordinator and are appointed to the Committee by the Section Chair upon their recommendation by the Competition Coordinator. The number of members is determined by the Competition Coordinator and shall be sufficient to accomplish the work of the Committee. Members shall ordinarily serve until they retire from the Committee; however a member may be removed by the Executive Committee if the Competition Coordinator and the Executive Committee deem that this action is in the best interests of the Competition Committee.



4. The Program Committee is responsible for planning the major speakers at section meetings.

The members of the Program Committee are the Section Past-Chair, who chairs the committee, and the Section Vice-Chair.

5. The Nominating Committee is responsible for selecting a slate of officers for the positions open that year.

The Nominating Committee shall consist of three Section members. Each fall the Section Chair appoints the three members and designates a committee chair.

#### ARTICLE VII Amendments

1. Amendments to these bylaws may be proposed by the Executive Committee or by a petition signed by 15 members of the Section.
2. Subject to subsequent approval by the Board of Governors of the Mathematical Association of America, these bylaws may be amended at a regular or special meeting of the Section. Approval of an amendment requires a two-thirds vote.
3. The Executive Committee shall communicate to each member of the section a copy of any proposed amendment(s) at least 20 days prior to the meeting at which voting on the proposed amendment(s) takes place.
4. A complete revision of these bylaws shall be subject to all of the same procedures required for other amendments to these bylaws.

## FROM THE GOVERNOR

Before giving the report from the last national meeting, I want to inform the section about some discussions going on with regard to the future of the Missouri Section. On November 6, 2010, I met with representatives from the Iowa, Kansas, Missouri, and Nebraska/South Dakota sections to discuss the feasibility of merging these sections. Concerns and challenges were shared, but the group also recognized that some good may come out of it if we try something first. At the end, the group agreed to consider trying a joint meeting in Spring 2013 at Northwest Missouri State University coinciding with our section's spring meeting and, if desirable, a second joint meeting in 2015. All sections are to consider this topic at their next business meetings, especially our section's agreement to extend such an invitation. Any actual merger (or partial merger) can take place only if the involved sections are willing to consider such an action after the joint meetings. I will brief the membership at the business meeting.

The MAA Board of Governors met January 5, 2011 in New Orleans, LA. MAA President David Bressoud presided.

It was noted that President David Bressoud appointed the following two Search Committees:

- For the Executive Director of MAA: Ron Graham (chair), David Bressoud, Barbara Faires, John Kenelly, Bob Megginson, Jenny Quinn, and Paul Zorn.
- For the Treasurer of MAA: Ann Watkins (chair), Donna Beers, Annalisa Crannell, Jerry Porter, and Alan Tucker

Among other things, President Bressoud reflected on his two-year term and felt the theme of his presidency had been the transition to college mathematics. He had been able to address some of our ignorance about what

happened at this transition through the MAA's NSF-DRL REESE grant, Characteristics of Successful Programs in College Calculus (CSPCC). We had 282 colleges and universities agree to participate. The initial fall surveys were answered by over 700 instructors and 12,000 students. By the time of the Board meeting, the final surveys should have been collected. We now face the task of cleaning, analyzing, and reporting the data. The second phase, case study analysis of successful calculus programs at different types of institutions, will begin in 2012.

Secretary Faires mentioned that we continued to work with various transition issues arising from the new Bylaws, and council chairs had been leading reviews of committees within their councils and making recommendations for us to consider. The final report from the Strategic Planning Working Group on Periodicals and Communications included valuable background information as well as 14 recommendations. The next round of committee appointments will soon begin with the web based form for making suggestions for committees available about February 1.

The total attendance at MathFest 2010 in Pittsburgh was 1546 (mathematicians: 1013, undergraduate students: 336, graduate students: 895), slightly better than the MathFest 2009. At MathFest 2011 in Lexington, KY, the three Hedrick Lectures will be given by Manjul Bhargava of Princeton University; MAA Invited Addresses will be given by Ed Burger of Williams College, Annalisa Crannell of Franklin & Marshall College, and Lauren Ancel Meyers of the University of Texas at Austin; one of the MathFest Invited Addresses will be cosponsored by the AMS. Laura DeMarco of the University of Illinois at Chicago has agreed to give the first joint AMS-MAA Invited Address' the Leitzel Lecture will be given by Philip Kutsko of the University of Iowa.

The Treasurer's section on the website (<http://www.maa.org/treasurer/>) is now being used effectively to make the MAA finance programs transparent to the membership. The Treasurer's report indicated that the MAA's financial health is sound and that we are doing well and able to continue our great strides in our good programs.

The Investment Committee reported that they were asked by the Executive Committee to consider the question of turning our investments over to a professional manager, but decided not to. They also stated that we have now made back in investment returns every dollar that we lost in the great market dive.

The Budget Committee reported that the continued operating deficits that had afflicted us appeared to have taken a turn for the worse in late 2010 and forced the Executive Committee to consider many options for cost savings throughout the organization in 2011. For 2012, all membership dues categories over \$100 annually will increase by \$2 over the 2011 rate while those under \$100 will increase by \$1 over 2011 rates.

First Vice-President Su reported his continued work on the issue of women's being under-represented in receiving awards and prizes from the societies in proportion to their membership.

The Strategic Planning Group on Periodicals and Communications submitted their final report draft. Their recommendations include: review and address publications-related governance questions, decouple mandatory journal subscriptions from membership, don't merge the CMJ and the Magazine, find ways to use e-tools to build communities around MAA publications, improve the quality of MAA's e-publications and e-hosting, reconfigure MAA FOCUS, think flexibly about our suite of journals, develop a process and clear rules for proposing and vetting ideas for new journals and publications, plan ahead for transition of new publications from grant-supported status to regular MAA sponsorship, achieve better integration of electronic resources at MathDL with the MAA website, increase sales to libraries, monitor open access and other copyright-related issues, explore possibilities for offering enhanced electronic editions of journal articles, and consider international markets.

The Strategic Planning Working Group on SIGMAAs submitted an interim report on their progress/activities so far.

Executive Director Straley commented that we had had many successes over the past year, new initiatives, and new directions. MathFest continued to grow in attendance and quality of program. We had new NSF funded projects, the Calculus study and the new MathDL project. She also pointed out the budget deficits stubbornly persist. The projected balanced budget for 2010 was not on target for that to happen. Among other factors, the most disturbing trend is the steadily decreasing number of members. A revised 2011 budget is projecting revenues to be the same as 2010 revenues except in those places in which we are raising fees. If we do not cut expenses accordingly, we could have a deficit approaching half a million dollars. Thus, there are many cuts in the revised budget affecting all operations including staff salary and benefits, governance expenses, programs, publications, and IT. At the same time, we will work to increase revenues through development and books, and we must reverse the trend of decreasing membership. At MathFest 2010 the new Bylaws of the Association were passed and are now on the website.

Currently funded projects: Characteristics of Successful Programs in College Calculus (NSF-DRL), WeBWork: Improving Student Success in Mathematics (NSF-DUE) ([http://webwork.maa.org/wiki/Main\\_Page](http://webwork.maa.org/wiki/Main_Page)), MAA Distinguished Lecture Series (NSA) ([www.maa.org/dist-lecture](http://www.maa.org/dist-lecture)), MAA Regional Undergraduate Mathematics Conferences (NSF-DMS) ([www.maa.org/rumc](http://www.maa.org/rumc)), MAA SUMMA Research Experiences for Undergraduates (NSA, NSF, Moody's) ([www.maa.org/nreup](http://www.maa.org/nreup)), MAA Professional Enhancement Program (PREP)(NSF) ([www.maa.org/prep](http://www.maa.org/prep)), Syndication of "Julia Robinson and Hilbert's Tenth Problem" on American Public Television (Joe Gallian), Syndication of "Hard Problems" on American Public Television (<http://www.maa.org/news/091409hp.html>), Travel Grants for Undergraduate Students to Attend National Meetings (NSA, NSF), Tensor Grants for Women in Mathematics (Tensor Foundation) (<http://www.maa.org/wam/tensor.html>), Tensor SUMMA Grants (Tensor Foundation) (<http://www.maa.org/programs/tensor-summa.html>), and Dolciani Mathematics Enrichment Grants (Dolciani-Halloran Foundation).

Six lectures have been held at the Carriage House since January 2010. March 27th, Jim Stewart presented "Mathematics and Music". On April 1st, Scott Berry presented a lecture entitled "Is Tiger Woods a Winner?" On July 28, Brian Conrey presented a lecture entitled "Primes and Zeroes: A Million Dollar Mystery". On September 23, Annalisa Crannell presented a lecture entitled "Math and Art: The Good, the Bad and the Pretty". On October 14, Robert Bryant presented a lecture entitled "The Idea of Holonomy" and Alice Silverberg presented "Cryptography: How to Keep a Secret". Stories on the lectures and interviews (including audio excerpts) are available through the MAA website. In addition, Ivars and Laura have created video samples of the lectures and posted them on the MAA video channel ([www.youtube.com/maavideo](http://www.youtube.com/maavideo)).

Director Steve Dunbar reported the review of AMC operations and policies and how using AMC data to analyze our current situation and to find policies which make the contests attractive to schools, teachers and students, while increasing efficiencies. The trends of AMC 8/10/12 all appeared to be stable. A new goal of his is to have something about the AMC in every issue of MAA Focus, and every Math Alert. In August 2010, the MAA co-sponsored with MSRI two teams of 4 girls to the 2010 China Girls' Math Olympiad after summer training in June at MOSP. One of the two U.S. teams placed second, behind a team from China, in the overall standings among 48 teams of girls from about ten countries throughout the world.

The IT Office reported that MAA's move to a new virtual server infrastructure had resulted in zero unplanned downtime over the last twelve months. This move had also eliminated most of the planned downtime as well. The new infrastructure had allowed MAA to take on several new projects without incurring any incremental infrastructure costs. These new projects had included hosting WeBWork courses, converting AMC's business

systems to a new web-based application, a web-based Calculus Survey, and a Grant Proposal Submission system.

We anticipated that we would have finished the year 2010 with about 20,000 active members, down from a little over 21,000 about four years ago. To reverse the trend, much has been done in the area of Branding. Branding is “the use of a name, term, symbol, or design –or a combination of these – to identify a product.” A set of Branding Standards has been published and can be accessed by going to:

[http://www.maa.org/maa\\_graphics\\_library/MAALogo\\_Guidelines.pdf](http://www.maa.org/maa_graphics_library/MAALogo_Guidelines.pdf).

The second phase of the Branding Project is beginning and will attack questions such as: What position, if any, do we already own in the mathematical community? What position do we want to own? What do we need to do to distinguish the MAA from the AMS, SIAM, NCTM and others? Are we willing to stick with one consistent positioning concept? Does our creative approach match our positioning strategy? To grow membership, a key element to that evolving strategy is certain to be the electronic membership, which launched in September 2009. Our current electronic membership has about 3,700 members, representing nearly 20% of all members. International membership still represents the greatest area for growth. But we realize that standard methods simply are not cost effective. Another important issue that was discussed at JMM 2010 was the Departmental membership, especially what the departmental benefits should be.

The advent of electronic memberships has more than doubled the number of member visits to the electronic editions of the journals, hosted at IngentaConnect. We saw an even larger increase in visits in October, after student members gained access to *Mathematics Magazine* and the *College Mathematics Journal*. We send out an email alert to subscribers as soon as each new issue is posted.

We worked closely with JSTOR to ensure a smooth transition to library electronic subscriptions to current issues of the MAA journals and *Math Horizons*. In its new Current Scholarship Program, JSTOR will post new issues as they are published (along with the three years not yet available in the archive).

Recent issues of MAA Focus have each featured an attractive, full-color poster: Illuminating Mathematics in August/September (HOM SIGMAA and *Loci: Convergence*), Math on the National Mall (highlighting MAA’s participation in the USA Science & Engineering Festival) in the October/November issue, and math careers in computer science in the current issue. Future issues will contain posters about MathFest 2011 and math circles.

We have been gradually transforming MAA publications web pages into a new format, with better navigation. The results can be seen in the new books pages, where announcements of new MAA books are posted, in the pages devoted to various aspects of MAA history, in the columns page, and in the pages for the journals. MAA received a National Science Foundation Pathways II Grant to continue development of MathDL. It will support continued operation of MathDL, development of a new component of the Library devoted to Mathematical Communication, and a new collection of online resources focused on materials for use in particular courses. Assuming that the Association opts for a one-year no-cost extension, this grant should keep MathDL in operation until at least September 2013. The new grant will also allow for a collaborative effort with Haynes Miller and his group at the Massachusetts Institute of Technology (MIT Math CI Space) to develop web resources for teaching mathematical communication to undergraduate math majors.

Books published since MathFest: **Randomness and Recurrence in Dynamical Systems**, Rodney Nilsen, Carus; **A Historian Looks Back**, Judith Grabiner, Spectrum; **Charming Proofs**, Claudi Alsina and Roger Nelsen, Dolciani; **Methods for Euclidean Geometry**, Owen Byer, *et al.*, CRM; **Functions, Data, Models**, by Sheldon and Florence Gordon, Textbooks. Electronic offerings available December 2010: **Calculus: An Active Approach with Projects**, Stephen Hilbert, *et al.* (CRM); **The Beauty of Fractals**, Denny Gulick and Jon Scott (MAA Notes – with full color plates). E-book **Calculus: Modeling and Application**, 2nd Edition, by David A. Smith and Lawrence C. Moore of Duke University, debuted last fall with six schools adopting this

text. Bestselling books in 2010: 1. Mathematical Interest Theory, Leslie Vaaler and James Daniel (Textbooks). 2. Math through the Ages – William Berlinghoff and Fernando Gouvêa (Textbooks). 3. Game Theory and Strategy, Phil Straffin (NML/Textbooks). 4. Number Theory through Inquiry, Marshall et al., (Textbooks). 5. An Episodic History of Mathematics, Steven G. Krantz, (Textbooks). 6. Mathematics in Historical Context, Jeff Suzuki (Spectrum). 7. Counterexamples in Calculus, Sergiy Klymchuk, (CRM). 8. Visual Group Theory, Nathan Carter, (CRM).

The revised Bylaws of Maryland–District of Columbia–Virginia Section were approved. The Associate Membership for school teachers was approved.

Information of the Project NExT is available at <http://archives.math.utk.edu/projnext/>.

Dates and locations for future Joint Meetings and MathFests are

2011	Lexington, KY	MathFest	August 4-6
2012	Boston, MA	Joint Meetings	January 4-7
2012	Madison, WI	MathFest	August 2-4
2013	San Diego, CA	Joint Meetings	January 9-12
2013	Hartford, CT	Math Fest	August 1-3
2014	Baltimore, MD	Joint Meetings	January 15-18
2014	Portland, OR	MathFest	August 7-9
2015	San Antonio, TX	Joint Meetings	January 10-13
2015	Washington, DC	MathFest	August 5-8

Regards,  
Yungchen Cheng

## FUTURE MEETING SITES

The Spring Meeting is held at various locations around the state. The meeting sites for the past several years and the next several years are listed below for your convenience. If your campus would be willing to host a Spring Meeting, please contact Suzanne Tourville, Section Chair, or any other member of the Executive Committee.

2005	Missouri Western State College	2013	Northwest Missouri State University
2006	University of Missouri-Columbia	2014	Saint Louis University
2007	College of the Ozarks	2015	Missouri University of Science and Technology
2008	Missouri State University	2016	Missouri Western State University
2009	Truman State University	2017	Missouri Southern State University
2010	University of Central Missouri	2018	Drury University
<b>2011</b>	<b>Columbia College</b>	2019	OPEN
2012	University of Missouri-St. Louis	2020	University of Central Missouri



## IN MEMORIAM

### **Louis J. Grimm, 1933-2010**

Dr. Louis J. (Lou) Grimm passed away on December 14, 2010, at the age of 77. He received a B.S. in Chemistry from Saint Louis University in 1954, an M.S. in Applied Mathematics from Georgia Institute of Technology in 1960, and the doctorate in Mathematics under the direction of W.A. Harris, Jr. from the University of Minnesota in 1965. Lou's first position after his Ph.D. was Assistant Professor of Mathematics at the University of Utah from 1965-69. In 1969 he came to the University of Missouri-Rolla (now Missouri University of Science and Technology) as Associate Professor of Mathematics. Lou was promoted to Professor in 1974 and became Chair of the UMR Mathematics and Statistics Department in 1981. He served as Chair for six years, returning to regular faculty duties in 1987. He retired in 2000, but continued to teach for several years. Lou's mathematics research was in differential equations, and he was an exceptional mentor for three doctoral students. He was a long-time member of the MAA, and in 2001 the Missouri Section honored him with its Distinguished College or University Teaching Award.

During the last few months of his life, when Lou knew he didn't have a lot of time left, one of his projects, on which he got a good start but could not completely finish, was to think back over his life and identify people who had positively inspired or impressed him in some way. Then he began writing to these people to tell them how much he had appreciated and been enriched by his association with them. He hadn't seen some of them in years; finding addresses wasn't always simple; his energy wasn't what it used to be – but he started doing it. Some of the folks he wrote to answered back; some he didn't have time to get in touch with; and one of these projects is being continued by his friends. What could be better to do in one's final days?

Memorial contributions are suggested to the Little Sisters of the Poor in St. Louis, MO. Online condolences may be offered at <http://www.nullandsonfuneralhome.com/obituary.php> (click on "View Archived Obituaries.")

### **Keith Schrader, 1938-2010**

Dr. Keith William Schrader, Professor Emeritus at the University of Missouri Columbia and MAA member, passed away at his home on December 27, 2010, at the age of 72. Until his retirement in 2000, he worked as a professor at the University of Missouri and served as the chairman of the mathematics department for several terms. He was well-known in the community as an avid antique collector and country-western dancer. Online condolences may be offered at [www.memorialfuneralhomeandcemetery.com/obituaries.html](http://www.memorialfuneralhomeandcemetery.com/obituaries.html).

The **MAA Missouri Section Newsletter** is published in October, March, and May each year. Please send any news, comments, questions or corrections to me at [setourville@ccis.edu](mailto:setourville@ccis.edu).

Thanks.

Suzanne Tourville  
Newsletter Editor