

MAA MISSOURI SECTION NEWSLETTER

Winter 2019 • VOLUME 38 • NUMBER 2

From the Chair (Chris Johnston)

2019 MAA Missouri Section Meeting

The Department of Mathematics at Lindenwood University will host the Spring Section Meeting on Friday, April 5 and Saturday, April 6, 2019. The Missouri Collegiate Mathematics Competition will take place the evening of Thursday, April 4 and the morning of Friday, April 5. Information about fees, registration, early registration discounts, and abstract submission are available on the meeting website: <https://www.lindenwood.edu/missouri-mathematical-association-of-america-mo-maa-conference/>.

The invited speakers are the following:

Plenary Speaker on Friday, April 5

Jim Daniel, MAA Treasurer,

How much money do you (or your parents) need for retirement?

Banquet Speaker on Friday, April 5

Haiyan Cai, University of Missouri – St. Louis

Plenary Speaker on Saturday, April 6

Martin Bohner, Missouri S & T

"Time Scales"

Note that Friday's banquet speaker has changed since the fall newsletter.

Call for papers

We invite both faculty and students to present at the Spring Meeting. Presentations should be 15 minutes long and should focus on mathematics or mathematics education. Examples of presentation topics include but are not limited to current mathematics research, new courses that have been developed, and successful teaching techniques. Talks can be either research-oriented or expository in nature.

Many undergraduate and graduate students attend this meeting, and you are welcome to design your presentation for these students. Also, if you are advising a student who is doing

research, please encourage the student to present and assist the student in preparing the presentation.

The abstract submission form is available on the meeting website. The deadline for submissions is **March 15, 2019**.

From the Section Representative (Jeff Poet)

The following is a request from the national office for a mentorship facilitator volunteer.

We would like your help in identifying someone from your section who is interested in being a Mentorship Facilitator for both MAA Project NExT and the MAA Mentoring Network. A Mentorship Facilitator will work with a representative from MAA Project NExT and a representative from the MAA Committee on Early Career Mathematicians to pair each interested new faculty member in your MAA Section with a more senior faculty member at a separate institution within your MAA Section. Ideally, the institutions of the senior faculty mentors will mirror those of the junior faculty mentees (in size, affiliation, public/private, etc.) and be fairly close in proximity. Mentorship Facilitators will be provided with a list of interested new faculty members as well as volunteer mentors. However, in the case when there are not sufficient mentor volunteers, the Mentorship Facilitator will need to identify and recruit mentors. Therefore, a Mentorship Facilitator should be someone who is familiar with the schools in your MAA Section and knows many of your active members.

Part of the job can be done later this semester, and part will need to be done early in the summer. All matches will need to be made prior to Mathfest.

The national office is wanting to fill this position for each section by mid-March. If you are interested in being the Mentorship Facilitator for the Missouri Section, please contact Jeff Poet immediately and he will forward your name to the national office. If no volunteers step forward, you can be expecting an email asking you to volunteer!

From the Secretary/Treasurer (Phoebe McLaughlin)

MATHEMATICAL ASSOCIATION OF AMERICA			
Section Financial Report - Year Ended 12/31/2018			
Please return to Mia Piansay, MAA, 1529 18th St. NW, Washington, DC 20036			
Fax: 202-319-8478 Email: mpiansay@maa.org			
SECTION:	Missouri Section		
(A) BEGINNING BANK BALANCE(S), 12/31/2017			\$ 7,179.00
			(see note below)
(B) REVENUES			
B.1 MAA Subvention			
B.2 Project NExT			
B.3 Meeting - Registrations			
B.4 Meeting Income	\$4,911.00		
B.5 Workshop Registrations			
B.6 Meeting Exhibitors			
B.7 Contributors			
B.8 Interest on Checking	??		
B.9 Interest Savings/CD			
B.10 Book Sales			
B.11 Dues			
B.12 Advertisements			
B.13 Institute Memberships			
B.14 Patterson Prize			
B.15			
(B) TOTAL REVENUES			\$ 4,911.00
(C) EXPENSES			
C.1 Secretarial			
C.2 Honoraria			
C.3 Postage			
C.4 Telephone			
C.5 Printing			
C.6 Newsletters			
C.7 Travel			
C.8 Meeting Expenses	\$4,968.84		
C.9 Speakers Travel/Lodging			
C.10 Students Lecture Program			
C.11 Book Sale			
C.12 Project NExT			
C.13 Awards			
C.14 Miscellaneous Office	\$392.47	(MCMC)	
C.15 Awards			
C.16 Patterson Prizes			
(C) TOTAL EXPENSES			\$ 5,361.31
(D) ENDING BANK BALANCE, 12/31/2018			\$ 6,728.69
(A + B - C = D)			
Phoebe McLaughlin	Secretary & Treasurer	??	
Signature	Title	Date	
note: this should include all bank balances including any CD's, savings accounts, etc.			
Please indicate to Mia Piansay at headquarters if any part of the above balance includes amounts being held due to a restriction placed on the funds by a donor . This does not include any amounts that have been earmarked or otherwise designated by the section governance unless they are also restricted by a donor.			

I will present this financial report at the spring meeting and answer any questions about it then.

Proposed Changes to MOMAA Officer Structure (Jeff Poet)

The Ad Hoc Committee to Consider Possible Changes in the MOMAA Administrative Structure will be bringing a proposal for discussion and vote to the Spring 2019 MOMAA Business Meeting. Please refer to the article in the Fall 2018 newsletter for details of the proposed changes. The following paragraph is lifted directly from that newsletter.

Just so you know the process, as I understand it, we will vote at the April 2019 meeting to suggest changes to our Bylaws (or not). After we vote, our proposed changes will go to a committee at the National organization which will scrutinize our proposal to be sure that it is within the bounds of the MAA's Constitution. (The national organization allows Sections to maintain their independence, but the committee assures that the Section bylaws do not contradict the overarching national constitution.) After the national committee's input, we will then have an official vote to adopt (or not) the proposed bylaws at the Spring 2020 meeting. This will complete our 10-year review cycle.

The committee looks forward to a lively discussion of the potential changes. We will need to vote on how to proceed with any possible changes (or not) at the meeting in St. Charles. Direct any questions to Jeff Poet (chair of AHCCPCMOMAAAS) at Missouri Western.

Missouri Collegiate Mathematics Competition (Chip Curtis)

The twenty-fourth Missouri Collegiate Mathematics Competition will be held

7:30pm - 10:00pm, Thursday, April 4, 2019, and 8:30am - 11:00am, Friday, April 5, 2019
on the campus of the Lindenwood University.

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 April 1, 2019. 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 official website of the contest is:

<http://sections.maa.org/missouri/contest.html>.

Additional information, registration forms and past contests can be found at that site.

An invitation e-mail for the contest has now gone out. If the appropriate person at your school has not received it, please let me know at curtis-c@mssu.edu so we can update our mailing list.

Section NExT (Samuel Chamberlain and Azadeh Rafizadeh)

We would like to remind you about the Spring 2019 Missouri Section NExT meeting at Lindenwood University in St. Charles, MO. Our events will run parallel to the Missouri Collegiate Mathematics Competition.

We will have a reception Thursday night, April 4, starting at 7:30 pm.

Our spring workshop will occur Friday, April 5, 8:30-11 am.

Our presenters this year are Dr. Jim Daniel, Professor Emeritus, Paul V. Montgomery Centennial Memorial Professorship in Actuarial Mathematics, and Distinguished Teaching Professor at the University of Texas, and Dr. Erin Martin, Associate Professor at Lindenwood University. Dr. Daniel has served the MAA in many roles and will give a talk titled "Community---the MAA, you, and the profession". Dr. Martin will give a talk on practical strategies for formative assessment and active learning.

We hope that you have found being a fellow/mentor beneficial and rewarding. If this is the case, please **help us recruit fellows and mentors** by informing your colleagues of these opportunities.

We hope that you will be able to find the time and resources to attend our workshop, and that you will invite your junior faculty colleagues to come and listen to these wonderful mathematicians and educators talk to us in an intimate setting.

If you have any questions or concerns, please do not hesitate to contact us. We are looking forward to seeing you in Springfield!

Campus News

Culver-Stockton College (submitted by Gary Cochell)

We hosted the AMC 10B/12B contest for high school students on Feb. 13.

Saint Louis University (submitted by Brody Johnson)

In September, representatives of twelve local colleges and universities convened on the SLU campus to discuss the formation of the Gateway Regional Math Alliance. The national Math Alliance has the goal of ensuring that every underrepresented or underserved American student with the talent and the ambition has the opportunity to earn a doctoral degree in a mathematical science. For more information about the Gateway Regional Math Alliance, contact Dr. Jim Gill, jim.gill@slu.edu

In November, SLU and Washington University co-hosted the inaugural meeting of the Saint Louis Academy of Mathematical Sciences, held in the Pere Marquette gallery on SLU's campus. Envisioned as a venue for cooperation among research mathematicians in the Saint Louis Area, approximately forty-five faculty from area institutions attended. The keynote was given by Dr.

Efim Zelmanov of the University of Chicago. Dr. Zelmanov, a 1994 Fields Medalist, spoke about “Infinite Dimensional Algebras and Superalgebras”.

Saint Louis University has launched a new undergraduate program leading to a B.S. in Data Science. This interdisciplinary program is supported by the Department of Computer Science as well as the Department of Mathematics and Statistics.

<http://cs.slu.edu/academics/undergraduate/bs-in-data-science>

FUTURE MEETING SITES

The Spring Meeting is held at various locations around the state. The meeting sites for the next several years are listed below for your convenience. If your campus would be willing to host a Spring Meeting, please contact Chris Johnston, Chair (CJohnston@lindenwood.edu), or any other member of the Executive Committee.

2019	Lindenwood University
2020	University of Central Missouri
2021	Truman State University
2022	University of Missouri – Kansas City
2023	Missouri State University

The MAA Missouri Section Newsletter is usually published in November, March and May each year. Please send any news, comments, questions or corrections to me at ddaly@semo.edu.

*Dan Daly
Newsletter Editor*

MISSOURI SECTION OF THE MATHEMATICAL ASSOCIATION OF AMERICA

ABSTRACT FOR CONTRIBUTED PAPERS

Author(s): _____

Presenting Author: _____

Presenter is: faculty _____ a graduate student _____ an undergraduate students _____

Institution: _____

Address: _____

Phone: (____) _____ Email: _____

Paper Title: _____

Abstract: _____

Is the presentation directed towards a student audience? _____

All presentation rooms are equipped with computers and projectors or presenters can connect their own laptop computers to use projectors. Rooms will also have white boards.

You may attached a scanned copy of the completed form and email to cjohnston@lindenwood.edu (please use "MAA Abstract" in the subject line) or send by regular mail to:

Christopher Johnston
209 South Kingshighway
St. Charles, MO 63301

The deadline for submission is March 15, 2019