# Ohio Focus

**The MAA Ohio Section Newsletter**

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# MAA Ohio Section Fall Meeting
# Friday-Saturday October 20-21
# Ohio University Lancaster

The Fall 2023 meeting of the Ohio Section of the MAA will be held at the Ohio University Lancaster Campus in Lancaster Ohio on Friday - Saturday October 20—October 21. On campus registration will starting at 12 noon on Friday and at 8AM on Saturday and will take place in the North Lobby of Brasee Hall. Parking for the meeting will be in the parking lot directly adjacent to the North Lobby. Parking is free and does not require a permit. Visit https://www.ohio.edu/lancaster/maa-ohio-fall-conference for meeting information and updates.

**About OU-Lancaster**: At Ohio University Lancaster, you'll find the close-knit sense of community of a small campus, and the resources of a nationally esteemed university. Students join us from all walks and chapters of life: straight out of high school, from other colleges, universities, technical schools or from years of working on the job. Located 30 miles from downtown Columbus, Ohio University Lancaster is for students who are looking for a convenient, affordable, and flexible option at the local level. Students are exposed to hands-on, experiential learning coursework through our dozens of community partnerships — in programs that also match the local job market, like nursing, teaching, business, social work, and more. Ohio University Lancaster now offers 12 associate degrees, 14 bachelor's degrees, 7 minors.

## Registration Information for Fall Meeting

Online registration is *preferred*. See the section web site at https://www.ohio.maa.org for conference registration, banquet reservation, and abstract submission. The deadline for pre-registration and banquet reservations is Friday, October 13. While on-site meeting registration is always available, last-minute banquet tickets cannot be guaranteed. Abstracts for contributed papers must be submitted by Friday, October 6. 2023. *Continued on page 2*

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## From Our President—Chandra Dinavahi

Greetings everyone! I hope that you have had an enjoyable summer and a good start to your school year. This year our Fall meeting is at the Ohio University-Lancaster.

I hope you were able to attend the spring meeting. Melissa Dennison and the other local arrangement folk did a wonderful job. The program committee led by Chris Swanson, provided us with a great program. We were fortunate to have had several guests deliver excellent talks. I was especially enthralled by the talk by Ohio MAA teaching award winner Dr. Pam Warton, "Feel the Wrath of Math: The Journey of a Competitive Mathematician" in which she told us about her undergraduate projects and talked about some of the games she enjoyed solving over the years. Another highlight was the talk by Dr. Michael Schroder on Latin Squares, which is my area of interest.

In the spring meeting we had elections for the section officer positions and I am happy announce that Tom Wakefield was elected as the President-Elect and Girogi Shonia replaced him as the Treasurer. Chris Swanson completed his term in the program committee and Anup Lamichhane elected as the new member of the program committee. Chris Swanson agreed to serve as Ohio MAA representative on Committee on Bylaws and he is currently working on updating section bylaws. We owe a huge thanks to all of them for their continuous service to the Ohio section.

On behalf of the section, I'd also like to thank Michael Schroeder for his service with Ohio MAA. He is instrumental in developing our new website and served as section webmaster and Ohio NExT Coordinator. He left Marshall and accepted a new position at Stetson University in Florida. This section misses him and wishes him the very best in his future endeavors. Tom Cuchta replaced him as our new webmaster and our section thanks him for his service. The Section is lucky to have such an active NExT organization. If you have recently added new members to your department, please encourage them to attend the Ohio Section meetings and to take advantage of what Ohio NExT has to offer.

I am very excited about the upcoming meeting and Program Committee have an excellent program in store for us featuring invited speakers Allison Henrich of Seattle University, Sandra Hurtado Rua of Cleveland State University, Jillian Morrison of College of Wooster, and Emily Hoopes Boyd of Lake Erie College . Consider giving a contributed talk at the meeting. If you are interested in serving the section or participating in NExT please contact me or any of the committee chairs. We are more than happy to help you and I can tell from my personal experience it is truly rewarding experience.

*Registration Information continued from page 1*: Early registration is appreciated.

On-site registration and check-in will be held beginning at 12:00 p.m. on Friday, October 20, in the North Lobby of Brasee Hall and will continue Saturday morning at 8:00 a.m. in the same location.

Meeting participants who are unable to register online may register by mail by sending the following information: name, affiliation, address, phone, e-mail address (if any), type of position, and banquet buffet reservation. Send with check, payable to Ohio Section MAA, for applicable fees [registration fee ($45 ordinary registration, $20 retired or part-time, no fee for students or first-time attendees), banquet buffet fee ($30.00 per person)] to Ohio Section MAA Fall Meeting c/o Paul Abraham, Ohio University Lancaster Campus, 1570 Granville Pike, Lancaster OH 43130. E-mail: abraham@ohio.edu. Registration by e-mail will be pending receipt of registration fees.

## From Our Section Representative—Phil Blau

I want to begin my report as the section's representative to the MAA Congress by wishing you all a great academic year filled with the teaching and learning of mathematics. I really enjoyed attending MathFest in Tampa and I hope many of you did as well. While recognizing that because of the location some could not or chose not to attend, it was still great reconnecting with colleagues, listening to outstanding invited addresses and contributed talks, and participating in panel discussions and workshops. As usual the MAA Congress met the day before MathFest. Let me provide a summary, which is on the long side, but I want to make sure I share give a full accounting of much of what happened during the Congress.

One important item discussed was the 2023-2028 Strategic Plan. A reminder that the mission of the MAA is to advance the understanding of mathematics and its impact on our world; our vision is a society that values the power and beauty of mathematics and fully realizes its potential to promote human flourishing. Our values are community, inclusivity, communication, and teaching and learning. A data gathering process, which commenced in February 2023 and included a survey, individual interviews, and focus groups led to a SWOT (Strengths, Weaknesses, Opportunities, and Threats) analysis. This analysis revealed the organization's strengths include a strong sense of community with passionate, supportive, and committed staff, leaders, and members, as well as valuable publications. Weaknesses noted were scope creep (attempting to do too much), unclear focus and lack of related priorities, and a lack of K-12 engagement. Opportunities included increasing partnerships, engaging in more outreach, and increasing innovation. Among the threats mentioned were a disinclination among younger and/or early career mathematicians to join associations, workforce burnout, and negative perceptions of higher education. These guided the creation of strategic plan that focuses on four interconnected goals: strengthening community, developing leaders, increasing membership, and allocating resources. More specifically, community is the goal to create innovative strategies to build and sustain an inclusive and welcoming community. Leadership and talent development has the goal to evaluate existing programming and create innovative new programming and pathways to develop new leaders and encourage professional development among staff and members. The goal classified as membership is to grow an engaged membership strategically and in a way that honors the values of the MAA. Finally, for resource allocation the goal is to regularly measure and evaluate the organization's resources and programs in light of available resources to develop a sustainable portfolio of programs that align with our stated values. Each of these goals has working objective(s). As this process is ongoing, there will be more discussion and feedback from the membership. More importantly, the members of our section can support the objectives tied to the strategic plan. For example, an objective is to develop a member driven leadership pipeline to move volunteers towards MAA leadership, which I believe is one goal in particular our section can help achieve.

Congress endorsed the proposed MAA Bylaws changes, which the membership will need to vote to approve when they elect national officers beginning September 9. Information about these changes was posted on MAA Connect in the All MAA Members Digest sent by MAA President Hortensia Soto on August 8. Some of the changes are to lengthen the term of Section Representatives to Congress to 4 years and allow the Board of Directors to appoint one to two additional Board Members-at-Large. More information is in the August/September issue of the MAA FOCUS. You can make sure your voice is heard by participating in the election.

C. Allen Butler, MAA Treasurer, and Kimberly Rutland-Start, MAA Chief Financial Officer, gave a budget update. Financially 2022 was a better year than 2021. There was a loss of roughly $100,000 out of a 9.5 million dollars operation budget. Participation in the American Mathematical Competition was still down.
*Continued on page 4*

*Continued from page 2 :* While market forces did deplete the MAA reserves in 2022, looking at reserves during the last several years reveals the growth overall has been good. The conclusion was the reserves are in good shape.

Cheryl Adams, MAA Director of Meetings and Member Relations, gave an update about Fonteva, which is the online registration for section meetings. The system is set for a late September demo for some section officers. The system should be able to track members versus non-members at meeting attendance. There will be what was described as a soft roll out this fall and a fuller roll out and piloting in Fall 2024.

There was also an overview of MAA programs by Deirdre Longacher Smeltzer, the Senior Director for Programs. The MAA has 13 grant-funded programs falling into three categories: curriculum resources, outreach initiatives, and professional development. Almost $700,000 was awarded in 2022. There were over 13,000 views of the MAA Virtual Distinguished Lectures series. These can be viewed on the MAA's YouTube channel. The fall will feature three more: Federico Ardila-Mantilla in September with "Hidden Patterns: The Shape of Multiplication," in September, Carla Cotwright-Williams on "Mathematics and Policy" on October 18, and Min Cetinkaya-Rundel on "Data in a(n Ever-Evolving) Box" on November 15. There were also 860 attendees at the 2022 Online Undergraduate Resource Fair for the Advancement and Alliance of Marginalized Mathematicians (OURFA2M2). This year the conference is scheduled for November 18-19. OPEN Math, a program to increase access to high-quality faculty professional development by eliminating the costs of travel has continued to expand, with 15 OPEN workshops to date. The PIC Math continues its programming, including collaboration with industry partners to engage undergraduate student teams in working on real industry problems. StatPREP continues to encourage of the use of data-centric methods and pedagogies, with these resources compiled in a soon to be published MAA Notes book. The MAA is currently revising program review guidelines for the first time in over a decade. The updated versions are anticipated to be shared later this year. MAA programing also included competitions involving hundreds of thousands of students from around the world. These include the American Mathematics Competition for 8th, 10th, and 12th grade (in which over 300 thousand students participated), the American Invitational Mathematics Exam, the USA Mathematical Olympiad and Junior Mathematical Olympiad, and the William Lowell Putnam competition. This year the US team took 2nd place in the International Mathematical Olympiad and the European Girl's Math Olympiad

There was a discussion led by the Task Force on the MAA Minority/Marginalized Representatives-at-Large. There are three representatives who serve on Congress, but currently only two of the positions are filled. This Task Force is charged to define the communities this position would represent, flesh out the roles of and responsibilities of this position, and discuss ways to find a third representative for a vacant slot to join with the other two representatives, Alejandra Alvarado and Aris Winder. Among the topics discussed were which marginalized communities should be represented: by race/ethnicity? By institutional type? By geography? By social identity? By professor (for example, adjunct, lecturers, visiting professors). Should the representative serve more as an "ambassador" to hear and learn the needs of various communities rather than be a "representative "for a group? The Task Force proposed to Congress that the section representatives should reach our more marginalized groups to hear their voices. More voices can come from 29 sections than just 3 representatives. So, I would welcome any input from section members. Be sure to look at the MAA 2022 Impact Report at https://2022report.maa.org. The staff in communications at the MAA should be proud of their work. The report summarizes the state of the MAA and is informative with a nice layout that is easy to navigate. And remember to take advantage of the online community at MAA Connect.

As always, you can contact me at pblau@shawnee.edu with any suggestions, questions, or issues you would like me to bring to the attention of the Congress

## Friday October 20: - 1:30—2:30 pm

## Speaker: Dr. Emily Hoopes Boyd

## Title: Polynomial Pandemonium and Majestic Matrices

**Abstract:** : If we graph the simplest quadratic, we see that its range, or its image, consists of all positive numbers and zero. Let us extend this idea by instead evaluating polynomials on square matrices whose entries come from the complex numbers. A version of the L'vov-Kaplansky conjecture states that the image of a multilinear polynomial evaluated over matrices, with entries from the complex numbers, is a vector space, which is an algebraic structure that much is known about. We will consider this problem in a slightly different context by adding in some elements to the complex numbers that are not necessarily commutative. We will see how the existence of such elements changes the structure of our polynomials and their images. The talk will be accessible to anyone interested in mathematics.

**Bio:** Emily Hoopes-Boyd is a professor of Mathematics at Lake Erie College (LEC) in Painesville, Ohio. She received her bachelor's degree in mathematics education (2017) and her master's degree in mathematics (2018) from Youngstown State University (YSU), and she earned her PhD in mathematics from Kent State University in 2021. Her research interests lie in noncommutative rings, matrix theory, and generalized polynomials. She is a member of the Project NExT 2023 cohort. She fell in love with teaching while she was a graduate assistant at YSU, and now teaches a wide variety of upper division math classes at LEC, including linear algebra, abstract algebra, and mathematical modeling. In her free time, she loves to go on walks at the local park with her husband and their dog.

## Friday, October 20th – 2:50pm-3:50pm

## Speaker: Dr. Sandra Hurtado Rúa

## Title: A Bayesian Mindset: From Everyday Reasoning to Modeling

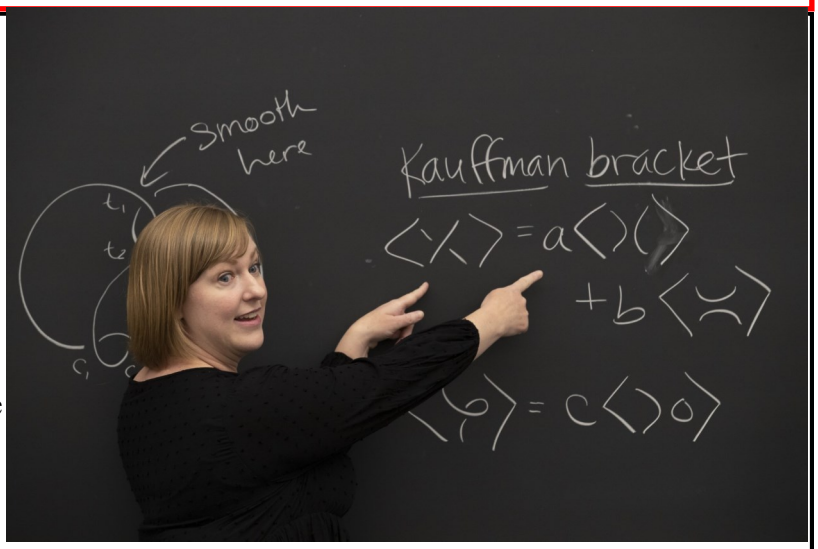
**Abstract:** In this talk we introduce the field of Bayesian statistics from the conditional probability concept. Bayesian methods combine prior knowledge (prior information) along with data to model and continuously update beliefs (probability) about some event. This area of statistics is based on the work of Thomas Bayes (18th century) but it was not popular until 50 years ago. The development of computer based MCMC methods, combined with increases in computing power and the availability of software for Bayesian computation are major contributors to the significant growth. Bayesian analysis brings a flexible framework to incorporate prior information when available. When non-informative priors are considered, inferences based on Bayesian and classical methods also provide results that are often very similar. It is proving especially useful in approaching complex problems, including clinical research, design and analysis of experiments, and engineering problems.

**Bio:** Sandra Milena Hurtado Rúa is an associate professor in the Department of Mathematics and Statistics at Cleveland State University and specializes in Statistics and Biostatistics. Dr. Hurtado Rúa's research includes Bayesian Inference, meta-analysis, and statistical analysis of MRI data in the context of clinical research. Her work has been included in numerous collaborative studies and could ultimately have direct benefits for clinical care. She received a Fulbright scholar award (2023) to Colombia. Dr. Hurtado Rúa holds a Ph.D. in Statistics from the University of Connecticut. In her free time, she enjoys traveling, gardening and hiking with her family.

## Friday October 20th Banquet Talk, 8:00 – 9:00 pm

## Speaker: Dr. Allison Henrich

## Title: Math is...




**Abstract::** If you talk to a random adult and mention your interest in math, you'll likely hear a response like: "I was never good at math," or "You must be smart! I'm not a math person myself." Many people come to have negative associations with math, identifying the subject with very specific objects, equations, or procedures and feeling inadequate when faced with quantitative questions. I wish people could experience math as I have been lucky enough to experience it—as a fun, creative outlet that I can explore with friends. In this talk, we'll think about different perspectives on what math is, and I'll share some stories from my own life that led me to love the subject, devoting my career to studying it and helping others develop their own positive relationships with math.

**Bio:** Allison Henrich is a Professor of Mathematics at Seattle University. She enjoys collaborating with students on research, especially on problems related to knots and games. She coauthored the books An *Interactive Introduction to Knot Theory* and *A Mathematician's Practical Guide to Mentoring Undergraduate Research*, and she coedited *Living Proof: Stories of Resilience Along the Mathematical Journey* as well as the Encyclopedia of Knot Theory. Allison is also the editor of the newsmagazine of the Mathematical Association of America, MAA FOCUS. In her "spare time," Allison enjoys spending time with her husband and their two hilarious little kids.

## Saturday October 21th Morning Talk, 9:35 – 10:35 am

## Speaker: Dr. Allison Henrich

## Title: How to Turn Your Knots from Blah into Fabulous

**Abstract::** Are you tired of tying boring old shoelace knots? Frustrated with messy knots in your spaghetti that are impossible to undo? Wish you could make friends and influence people with your amazing knot-tying ability? Then come to this spectacular knot (un)tying workshop! You'll learn to harness the power of mathematics and the fourth dimension to unlock the secrets of knots. Discover how to make tangled up messes magically disappear and make knots apparate out of thin air. *But wait! There's more!* Impress your friends and family with fancy phrases, like "persistent tangle" and "Reidemeister moves." Make your rivals wish they had come to the MAA Ohio Section Meeting! Come join us, and all your wildest dreams will come true.

## Ohio's Project NExT

Ohio Project NExT invites faculty in their first five years of teaching in Ohio to join us at the fall section meeting both for lunch on Friday before the meeting and also at the conference banquet. If you are interested in joining us or want to know more about Ohio NExT, please email Axel Brandt at abrandt@jcu.edu. Questions or information about Ohio NExT can also be addressed to Liz Haynes-Wiget at elizabeth_haynes-wiget@wilmington.edu

## Saturday 12 PM—1 PM

## Speaker: Dr. Jillian Morrison

## Title: Group Work and Project Based Learning - An Alternative Approach

**Abstract:** Project based learning is a great way to allow students to deep dive into engaging projects and active exploration through complex projects. Assigning these projects in groups help students develop collaborative skills that can be useful, especially in the workplace. However, students often complain about sharing effort, authority, autonomy, and credit when working together. Traditionally, group work has been designed so that the members of the group work together on various tasks to achieve the final product. This could mean that each member works on a different task to complete the project. This makes it tricky to decide how to equally share up the different aspects of the work which creates frustration for students and instructors. On the other hand, this alternative approach ensures that every member of the group completes the same task, but they use their different skills to assist each other to complete the overall task. This helps to address some of the concerns that are usually faced in traditional group work. I will discuss what I have tried, what worked and what didn't work.

**Bio:** Jillian Morrison is an Assistant Professor of Statistical and Data Sciences at the College of Wooster in Ohio for 4 years. Prior to this, she taught Mathematics and Statistics courses at Washington State University for 5 years. She earned a PhD in Statistics and a Master's degree in computational finance from Washington State University. Her current research focuses on computational and applied statistics, education, and Caribbean development. She is working on creating a space where she and her collaborators plan to provide resources and workshops that promote and support data science and STEM education. While the resources will be available globally, the programs and workshops will be made available to students in Belize and the USA. She has publications in areas of Education, Chemistry, and Veterinary Medicine where she and her co-authors apply appropriate and advanced statistical techniques to address real-world problems. She has other manuscripts and a textbook on ordinal data in the works. One of her positions include being the Chair of the Communications Committee for the Caucus for Women in Statistics. This is an organization that aims to ensure that women in the profession of statistics have equal opportunity and access to influence policies and decisions in workplaces, governments, and communities. Jillian enjoys spending time with family and friends, likes to help others, and holds a deep commitment to making the world a better place.

## UD Hosting Undergraduate Mathematics Day—Nov 4, 2023

The University of Dayton will hold its biennial Undergraduate Mathematics Day on Saturday, November 4, 2023. This is an undergraduate mathematics conference that extols all aspects of mathematics. Undergraduates are invited to contribute talks celebrating mathematics in all its forms: research, learning, teaching, and history. Talks presented by high school students, graduate students, and faculty are also welcome.

**Dr. Gizem Karaali** of Pomona College will give the 23rd Annual Kenneth C. Schraut Memorial Lecture and **Dr. Frank Casabianca** of National Security Agency-Visiting Professor at the US Military Academy at West Point will deliver a second plenary lecture.

See http://go.udayton.edu/UndergradMathDay for more details.

## Nominations sought for the Ohio Section Award for Distinguished College or University Teaching of Mathematics

There are many outstanding mathematics educators in the Ohio Section, and one way to recognize them for their excellence is to nominate them for the Ohio Section Award for Distinguished College or University Teaching of Mathematics. If you know of such an excellent educator, please consider nominating him or her for this honor. Note that this does not have to be someone from your own institution. Successful nominations have come from colleagues at other schools.

To make a nomination, complete the one-page nomination form, write a description of why you have chosen to nominate this individual, and solicit recommendations from colleagues and current or former students. Nomination forms and detailed instructions are available from the Ohio MAA Website at https://ohio.maa.org/nominations. Nominees must be members of the MAA and the Ohio Section, and they must have more than seven years of teaching experience in the mathematical sciences at the college/university level.

The award will be presented at the 2024 Spring Meeting of the Ohio Section, and appropriate publicity will be generated at the winner's home institution. The winner will be included in the pool of potential Ohio Section's nominees for any future Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics. Past Ohio Section winners who have gone on to receive the Haimo Award are Aparna Higgins (University of Dayton, 2005) and V. Frederick Rickey (Bowling Green State University, 1993).

Nominations should be sent to Kyle Calderhead, Secretary of the Ohio Section of the MAA, via e-mail to kcalderhead@malone.edu (preferred) or via postal mail to Kyle Calderhead, Department of Mathematics, Malone University, 2600 Cleveland Ave. NW., Canton, OH 44709. If you have questions or comments, please contact Tom Wakefield, Chair of the Teaching Award Committee, at tpwakefield@ysu.edu. The nomination deadline is January 1, 2024.

## Call for Presenters for Contributed Paper Sessions

Presentations on any topic of general interest in mathematics or related areas are ***encouraged*** for the Contributed Paper Sessions on Friday afternoon and Saturday morning at the Fall Ohio Section meeting. Presentations are 15 minutes in length with 5 minutes for questions and transition to the next presentation. Your reports on projects, research announcements, or anything you believe would be of interest to those in attendance are welcome. Online submission with your meeting registration at https://ohio.maa.org is strongly preferred, but if necessary, you may submit your title and abstract to the chair of the Program Committee, Alicia Prieto-Langarica by e-mail at aprietolangarica@ysu.edu or by U.S. mail at

Alicia Prieto-Langarica
Department of Mathematics and Statistics
One University Plaza, Youngstown OH, 44555

Contributors should send a title and brief abstract by Friday October 6, 2023. Abstracts should be between 25 and 75 words in length and should employ proper English grammar and spelling. One speaker per session is greatly preferred, but two speakers in one session can be accommodated if necessary. Please use only plain text in your title and abstract as the abstract submittal system cannot process TeX or another graphics code. *Continued on page 9*

*Continued from page 8*: - All the presentation rooms have a PC computer with connection to a projector. Speakers are advised to store their presentations in the cloud or on a portable device; or connect their laptop and to the projector via HDMI (bring any additional adaptors as needed); or do both as a precaution. Internet access is available throughout campus using guest login. Specific questions about technology availability should be addressed to Paul Abraham at abraham@ohio.edu. or Alicia Prieto-Langarica at aprietolangarica@ysu.edu

## THE FALL 2023 CONSACT WORKSHOP

The two-hour workshop will take place Saturday afternoon at the conclusion of the Fall Meeting. There will be a boxed lunch available for purchase when you register for the Fall Meeting. The topic of this year's workshop is History of Mathematics. It is the Committee's pleasure to announce that William Dunham from Bryn Mawr College will conduct the workshop. Here is an abstract of his presentation:

Over the years, I have found two sure pathways into the history of mathematics: articles and archives. In this workshop, I will discuss one memorable instance of each.

"*How Odd are Odd Perfect Numbers*?"

In 1888, J. J. Sylvester published an article about odd perfect numbers – i.e, odd numbers that are the sum of their proper divisors. In the 18th century, Euler had observed that such numbers present a "most difficult" challenge, and to this day no one knows if odd perfect numbers exist. Here, I examine a key result of Sylvester's paper: his proof that an odd perfect number (should there be one) must have at least three different prime factors.

"*Bryn Mawr Matriculation Exams from Days of Yore*."

While grazing through the archives of the Bryn Mawr College library, I found copies of old "Matriculation Exams" from around the year 1900. These in-house tests, featuring questions from across the academic disciplines, were designed to identify women worthy of admission to the college. I'll share a few of the math problems, including some that were almost too challenging for me to believe.

NOTE: Both talks are accessible to anyone who has seen calculus.

William Dunham is a historian of mathematics who has written four books on the subject: *Journey Through Genius, The Mathematical Universe, Euler: The Master of Us All,* and *The Calculus Gallery.* He was the MAA's George Pólya Lecturer from 2014 to 2016 and is featured in the Teaching Company's DVD course "Great Thinkers, Great Theorems." Most recently, he co-edited an anthology from Cambridge University Press titled *The G. H. Hardy Reader.*

Dunham won the American Association of Publishers' award for writing the Best Mathematics Book of 1994 for his book *The Mathematical Universe*. He received a Lester R. Ford Award in 2006 for his expository article *Touring the Calculus Gallery*, and the Chauvenet Prize in 2022 for his article *The Early (and Peculiar) History of the Möbius Function*.

Dunham published a chapter "*Euler and the Fundamental Theorem of Algebra*" in the book *The Genius of Euler* published in 2007 to commemorate the 300th birthday of Euler.

Dunham received his BS degree from the University of Pittsburgh and his MS and PhD degrees from the Ohio State University. His PhD advisor was Norman Levine.

Since Dunham retired from Muhlenberg College (*emeritus*, 2014), he has held visiting positions at Harvard, Princeton, Penn, Cornell, and at Bryn Mawr College, where he now is a Research Associate in Mathematics.

Here is link to Dunham's Clay Mathematics Institute Public Lecture titled "A Tribute to Euler" given at Harvard University on October 14, 2008: https://www.youtube.com/watch?v=fEWj93XjON0

Submitted by Jim Anderson, Chair of COMSACT

## Campus Notes

**From the University of Dayton**: The Department of Mathematics at the University of Dayton welcomed five new faculty this year. Thilini Jayasinghe (PhD 2022, Texas Tech University) and Yulong Li (PhD 2019, University of Wyoming) are tenure-track assistant professors. Reza Bidar (PhD 2018, Michigan State University) and Richard Buckalew (PhD 2014, Ohio University) are visiting assistant professors, and Leah Andaloro (MS 2023, Miami University) is a lecturer. Ying-Ju Tessa Chen earned tenure and promotion to associate professor. Julie Simon was promoted to principal lecturer. Pete Hovey retired in May and was promoted to professor emeritus. Kyle Helfrich left the university to pursue a new career. The department will host Undergraduate Mathematics Day, an undergraduate mathematics conference, on Saturday, November 4, 2023. Details will be available at https://go.udayton.edu/MathEvents

**From Kent State**: Summer Mathematics Enrichment Academy was held June 26-30, 2023, at Kent State University, Stark Campus. The week-long enrichment workshop successfully received funding through the Mathematical Association of America's prestigious Dolciani Mathematics Enrichment Grant (DMEG). The funds were used to develop hands-on, discovery-based academies, creating new opportunities for a diverse group of Stark County high school STEM students (see picture). According to Dr. Bathi Kasturiarachi, PI of the grant, "The MAA has been very thoughtful about which groups are underrepresented in mathematics. The participants will be immersed in a unique enriching experience through discovery. I'm glad that we created this opportunity for high school students in Stark County." Along with Dr. Kasturiarachi, four other faculty members Ashley Meinke (co-PI), Dr. Shelly Heron, Dr. Gro Hovhannisyan, and Deepshikha Bhati, provided instruction in each academy.

**From Baldwin Wallace:** This summer Drs. Melissa Dennison and Kate Lane hosted several camps for area school age children focusing on Game Theory and other mathematical topics. In the 2022-23 academic year Baldwin Wallace students Kailin Breedlove, Moore Bright, Bryant Burns, Malini Gaddamanugu, and Parker Stevens worked with the State Library of Ohio to help examine the Interlibrary Loan System. Baldwin Wallace hosted the Spring 2023 Ohio MAA Sectional Meeting.

**From Wittenberg University**: Wittenberg University is excited to have two new computer science faculty, Dr. Sunday Ngwobia and Dr. Theresa Wilson, join the department. Both bring a renewed energy to the department and we are excited to have them continue to support our computer and data science programs. Also, Dr. Adam Parker won the MAA's Merten M. Hasse Prize for his work with Matt Davis and Daniel Vargas published in *The College Mathematics Journal*. Both Adam and Daniel attended MathFest in Tampa to receive their prize and were celebrated throughout the conference.

**From Ohio Wesleyan:** In the last three years two new staff members have been hired into the Mathematics Department at Ohio Wesleyan and a third new faculty member is affiliated with the department. Nicholas Dietrich, who has a Ph. D. in quantitative political science from Penn State, is teaching data analytics, which is an interdisciplinary program at OWU but housed in the Math Dept. Hanliang Guo, with a Ph. D. from University of Southern California followed by a post doc at U Michigan, has joined us to teach applied and computational mathematics. His specific training is in biological fluid mechanics. *Continued on page 11*

*Continued from page 10*: Finally, Matthew McCurdy, with a Ph. D. from University of Florida followed by a post doc at Trinity College and expertise in environmental fluid mechanics, is also teaching applied mathematics and developing our program in mathematical modeling. Four staff members have retired or resigned: Jeff Nunemacher and Mark Schwartz (who still teach occasional courses), Pamela Pyzza, and Alan Zaring.

**From Denison University:** Denison University is delighted to have three new colleagues join our math department. We warmly welcome Leilani Pai to our academic family. A proud alumnus of the University of Nebraska-Lincoln, Leilani has a rich background in random graphs and has shown a keen interest in STEM education research. As she embarks on her journey in Ohio, she's enthusiastic about teaching and becoming a part of the Denison community. We are also happy to to welcome Robert Viator Jr. who joins our department most recently from Swarthmore College. Robert brings expertise in spectral geometry and applied partial differential equations. He will be leading courses in differential equations, as well as pure and applied analysis. Lastly, we are happy to introduce Adam Waterbury to our team. Most recently from the University of California, Santa Barbara, Adam's specialization lies in statistics and applied probability. He will be teaching courses in both statistics and probability.

**From Sinclair Community College**: Marie Stroh and Viet Tran retired and Todd Stephen took another job at the end of last year. Valerie Cope was promoted to Professor and Joe Czupryn was promoted to Associate Professor Victoria Kruglov moved into a tenure-track position as Associate Professor. Lamar Dorsey and Kristin Killen are new full-time faculty.

Finally, an additional note from Jim Anderson (Toledo): Catherine Lane from Baldwin Wallace University and Kelly Phelan from Marion Technical College won the $25 Amazon gift cards for filling out the Ohio MAA Fall 2022 Survey.

**Also From Denison**: We're sad to report Professor Emeritus Don Bonar passed away after a remarkable 50-year career at Denison University. Don has served in almost every capacity a faculty member can and has been recognized with almost every award the university can bestow, even endowing the annual Bonar Family Mentorship and Teaching Excellence Award, which recognizes exemplary mentoring and teaching by a Denison faculty member. He has written numerous articles and books, and has an Erdős number of 1. A memorial service will be held at 11:00 a.m. on Saturday, September 16, 2023, in Swasey Chapel in Granville, OH.

## CONCUR Panel Discussion Summary—Spring 2023 Section Meeting

At the Spring 2023 Ohio MAA meeting, CONCUR (the Section's Committee ON CURriculum) sponsored a panel discussion, "College Credit Plus (CCP): A bird's eye view". The event was moderated by Danny Otero (Xavier University) who is one of the members of the CONCUR committee. During the event, Becky Harr, a College Credit Plus program director at the Ohio Department of Higher Education, provided historical context for CCP and reported a number of important statistics about the program. Two other panelists, Tena Roepke, Director of the School of Science, Technology, and Mathematics at Ohio Northern University, and Glen Lobo, Professor of Mathematics at Sinclair Community College, shared their insights on different aspects of CCP. Many attendees participated in the lively Q&A session that followed.

## Ohio MAA Section Project NExT

Ohio's Project NExT invites faculty in their first five years of teaching in Ohio to join us at the fall section meeting both for lunch on Friday before the meeting and also at the conference banquet. If you are interested in joining us or want to know more about Ohio NExT, please email Axel Brandt at abrandt@jcu.edu.

Questions or information about Ohio NExT can be addressed to Liz Haynes-Wiget at elizabeth_haynes-wiget@wilmington.edu

## Ohio MAA Fall 2022 Survey

In the Fall of 2022, the Membership Committee of the Ohio MAA used a Google Form to conduct a survey of the mathematics faculty in Ohio and at Marshall University. There were fifty-two responses to the survey. All participants of the survey were put in a drawing to receive one of two $25 Amazon gift cards. Congratulations to Catherine Lane from Baldwin Wallace University and Kelly Phelan from Marion Technical College who received these gift cards! Here is the information that was provided in the Google Forms.

**1. Your Institution**

| | | | |
|---|---|---|---|
| Ashland University | 2 | Oberlin College | 1 |
| Baldwin Wallace University | 3 | Ohio University | 2 |
| Bowling Green State University | 2 | Ohio University Lancaster Campus | 1 |
| Case Western Reserve University | 3 | OSU ATI Wooster | 1 |
| Cleveland State University | 2 | Shawnee State University | 3 |
| College of Wooster | 1 | Sinclair Community College | 3 |
| Cuyahoga Community College | 3 | Terra State Community College | 1 |
| Defiance College | 1 | The College of Wooster | 1 |
| Kent State University | 5 | University of Akron | 1 |
| Lake Erie College | 2 | University of Dayton | 1 |
| Lakeland Community College | 1 | The University of Toledo | 1 |
| Marion Technical College | 2 | Wittenberg University | 1 |
| Marshall University | 4 | Youngstown State University | 4 |

**2. Your Title**

| | | | |
|---|---|---|---|
| Adjunct | 1 | Retired | 1 |
| High School Teacher | 1 | Tenured - Assistant Professor | 13 |
| Professor - Non Tenure Track | 9 | Tenured - Professor | 17 |
| Professor - Tenure Track | 10 | | |

**3. What are your memberships in professional organizations?**

| | | | |
|---|---|---|---|
| ACAD | 1 | NCTM | 7 |
| ACMS | 2 | NNN | 2 |
| AMATYC | 5 | None | 11 |
| AMS | 17 | OATYC | 2 |
| AMTE | 2 | OCTM | 4 |
| APS | 1 | Ohio Section MAA | 1 |
| ASA | 2 | OhioMATYC | 6 |
| ATMAE | 1 | OMELC | 1 |

| | | | |
|---|---|---|---|
| AWM | 4 | OMSC | 2 |
| Council on Undergraduate Research | 1 | OUCTM | 1 |
| Delta Kappa Gamma | 1 | Pi Mu Epsilon | 2 |
| FUN | 1 | SACNAS | 1 |
| GAHTS | 1 | SFN | 1 |
| GCCTM | 1 | SIAM | 1 |
| ILAS | 2 | Sigma Xi | 1 |
| IMS | 1 | SMB | 1 |
| MAA | 21 | TAA | 1 |
| MAA-SIGMA on RUME | 1 | Todos | 1 |
| NAM | 1 | WIS | 1 |
| NCSM | 1 | Women in Math | 1 |

**4. Have you attended a meeting of the Ohio Section MAA in the last two years? If no, why?**

Yes 12 No 40

| | | | |
|---|---|---|---|
| Busy schedule | 2 | Location | 1 |
| Cost | 1 | Schedule Conflicts | 4 |
| COVID | 14 | | |

**5. What would be your preferred method for holding the meetings?**

Either One 19 In-Person 24 Virtually 9

**6. Would you be willing to attend an Ohio Section MAA meeting virtually?**

No 11 Yes 41

**7. Do you think that your students would be interested in participating in the Leo Schneider Student Team Competition?**

No 29 Yes 23

**8. What topics would you like to see presented at the meetings?**

a. I generally like the topics you choose.
b. I like them as they are!
c. I am fine with the topics that are typically presented.
d. I enjoy many of the topics that are at the meetings.
e. Best practices in teaching mathematics
f. Expository mathematics connected to the material usually covered at the undergraduate level, materials and strategies for improving undergraduate instruction
g. Teaching related
h. Active learning and inquiry-based learning for precalculus sequences
i. Math for Elementary Teachers
j. Various topics in mathematics, math education and statistics
k. Calculus, Topology, Geometry
l. Teaching, Research - especially new and exciting developments

m. Declining student enrollment and retention. Declining interest in majoring in mathematics.
n. Data science
o. Using technology in the classroom; pre-calculus, calculus, geometry, higher level mathematics
p. Perhaps include a job fair for undergraduate and graduate students.
q. Good expository talks by presenters who reflect the diversity of our Section.
r. I love research talks (not that I understand them) but it is frustrating when new graduates cram 5 years of research into 15 minutes where no one is an expert. I'd encourage new Ph.D. to continue to present, but we need to coach them slightly better.
s. Non-traditional teaching methodologies, unusual topics for advanced undergraduate courses. (I typically teach only post-calculus courses so although calculus and pre-calculus teaching issues interest me in principle, they are not of direct professional relevance to me these days.)
t. Teaching techniques among others
u. I really enjoy pedagogy session
v. Mathematical studies to biological and biomedical applications
w. Placement policies and procedures
x. More about teaching & learning
y. Student engagement
z. Pedagogy of DL and Hybrid courses.
A. Modern Math
B. Teaching non-STEM majors mathematics
C. Current research
D. Maybe portions of days organized by topic like math bio, topology, analysis, etc.
E. Pedagogy tools specifically aimed at Mathematics content
F. Inclusive teaching in mathematics; DEI in mathematics
G. Local research on math education in 2 year colleges
H. Not sure what is presented typically
I. Math ed
J. The teaching of Quantitative Reasoning and other topics related to the Ohio Mathematics Initiative; Inquiry-based learning (IBL)
K. I've been dipping my toe in the water of mastery-based or non-standard grading approaches, with help from the community of people who organize the collegiate STEM focused meeting that occurs virtually every summer (for the past 3 years) and would love to attend talks from people who have used a non-standard based grading approach in mathematics classes and can share resources and outcomes of that experience.
L.
M. Keep a good assortment of interesting/accessible mathematics topics and teaching related topics (state initiatives, new trends, etc.)
N. Topics relevant to active learning in the classroom and authentic assessment
O. No strong preferences--I appreciate settings where a broad range of topics are accepted
P. Research, professional development
Q. Topics related to methods of teaching undergraduate statistics courses
R. Instructional Topics - How to become the best professor I can be.
S. Opportunities to explore dev ed, and first- and second-year math course topics in a new format. For example, presenters could share projects they do with students at this level.
T. Math history related to teaching current topics, statistics, and interesting applications
U. No preference. I will be leaving the state shortly.
V. Unsure at this time.
X. Not sure.
Y. I do not know.

**9. Is there something that the Ohio Section MAA could do in order to help you in your profession?**

a. I really enjoyed the meeting I attended at Malone University a few years ago.
b. Continued opportunities for professional development in teaching
.

c. I would like to get paper copies of Math Horizons into the hands of many undergraduates
d. There is nothing, since I am retiring soon.
e. I think the MAA does enough - I just find it hard to stay engaged with my workload!
f. Well, the MAA appears like it is going under. Leadership seems to be void at the national level.
g. We've sold our wonderful book collection and appear like the entire organization is ready to fold.
h. I really don't understand why the MAA has lost its way!
i. Not really. I am nearing retirement.
j. They are doing well
k. Keep doing what you're doing!
l. The Ohio Section of the MAA has already done plenty to help me.
m. Just keep doing what it is doing!
n. Perhaps include seminars on current trends in math education.
o. No. I have enjoyed being a member of the Ohio Section MAA. It has already done a lot for me in my profession.
p. The MAA has given me way more than I could have asked for.
q. Please keep me updated!
r. It has does this for me and has for over 20 years.
s. Local workshops would be amazing
t. Assist me in networking with other instructors at other institutes since I am new to faculty.
u. Have research institutions to value MAA Sections meetings.
v. Online conferences
x. Providing travel grants for students to attend and present is the best way to help the profession grow and become more diverse.
y. More about inclusive teaching
z. Online weekly seminars , success stories or new methods to reach nontraditional students math needs, form research groups on math education
A. Getting away to conferences with like-minded professors would actually help me. I just can't do any more virtual meetings. I have zero desire to engage in any more training in this capacity. If I had known about the Ohio Section MAA meeting earlier, I would have planned for it. At this point, though, I cannot add one more thing to an October calendar-- - perhaps next year!
B. Actually, being a member helped me get through the Covid debacle.
C. More networking opportunities.
D. More professional development opportunities available online if possible.
E. Maybe help people in OH connect around the SIGMAAs that they are members of?

Submitted by Jim Anderson
Membership Committee Chair

## DRIVING INFORMATION

The address for the Ohio University Lancaster Campus is 1570 Granville Pike, Lancaster OH 43130. Overall, the Ohio University Lancaster campus is situated about 30 miles southeast of Columbus and a little northeast of downtown Lancaster. The main roads into Lancaster are US-22, SR-37 and US-33. Brasee Hall faces SR-37.

**Arriving from SR-37**

- Close to campus 37 is Granville Pike.
- From the north, turn left into campus at the light just before campus (baseball field will be on right). Or from the south, turn right at the light just past campus (baseball field will be on the left).
- Turn right into the Brasee Hall/North Lobby parking lot.

**Arriving from US-33**

- Near Lancaster, exit off of US-33 onto the business route for 33.
- Within Lancaster, the business route is Memorial Drive.
- Follow Memorial Drive to Fair Ave.
- Turn east onto Fair Ave (and go past the county fairgrounds on the left)
- Turn left on High Street.
- Continue past Rising Park then veer to the right from High Street onto Granville Pike Rd.
- Turn right at the light just past campus.
- Turn right into the Brasee Hall/North Lobby parking lot.

**Arriving from US-22/Main Street**

- 22 is Main Street in Lancaster.
- Follow Main Street to High Street.
- Turn north onto High Street.
- Continue past Rising Park then veer to the right from High Street onto Granville Pike Rd.
- Turn right onto College Ave at the light just past campus.
- Turn right into the North Lobby parking lot.

## Hotel Information

Hotels below are listed in order of distance from the Lancaster campus. Each of these hotels are just off of Memorial Drive/(business route for US-33) in the primary retail section of Lancaster.

**Hampton Inn Lancaster—distance from campus 2.1 miles**
2041 Schorrway Dr NW, Lancaster, OH
Phone: 740.654.2999 or book online
*Special discounted rate if reservations are made by September 29.*
*Discounted rate under code "MAA" for people staying over Oct 19, 20 or 21.*

**Holiday Inn Express & Suites - distance from campus 2.4 miles**
1861 Roverway Dr, Lancaster, OH
Phone: 740.654.4445

**Baymont by Wyndham Lancaster—distance from campus 2.4 miles**
1721 River Valley Cir, Lancaster, OH

# OU-Lancaster Campus Map

## BANQUET INFORMATION

There will be a banquet on Friday night for $30 per person. The buffet will be served with:

- beef brisket, barbecued chicken or black bean burger (vegan option)
- cheesy potatoes or roasted vegetables (vegan option)
- salad/dressing
- fruit salad
- assorted mini-cheesecakes
- assorted soft drinks

Appetizers will precede the banquet.

# Fall 2023 Ohio Section Meeting Program

All Events will be held in Brasee Hall

## Friday, October 20

| Time | Event | Location |
|---|---|---|
| 12:00-4:00 | Registration | Brasee Hall North Lobby |
| 12:00-1:00 | Committee Meetings: | |
| | CONCUR (Curriculum) | Brasee Hall 209 |
| | CONSACT (Section Activities) | Brasee Hall 212 |
| | CONTEAL (Teacher Education & Licensure) | Brasee Hall 227 |
| 1:00-4:00 | Vendor & Book Exhibits | Brasee Hall 3rd Floor Lobby |
| 1:15-1:30 | Welcome & Announcements | Brasee Hall 211 |
| 1:30-2:30 | Invited Address<br>"Polynomial Pandemonium and Majestic Matrices"<br>Emily Hoopes-Boyd | Brasee Hall 211 |
| 2:30-2:50 | Break | |
| 2:50—3:50 | Invited Address<br>"A Bayesian Mindset: From Everyday Reasoning to Modeling "<br>Sandra Hurtado Rúa | Brasee Hall 211 |
| 4:00-6:00 | Contributed Paper Sessions | Brasee Hall<br>209<br>2i2<br>227<br>213 |
| 6:10-6:50 | Social Time | Brasee Hall Art Gallery/ Lobby |
| 7:00-8:00 | Banquet | Brasee Hall Art Gallery/ Lobby |
| 8:00-9:00 | Invited Address<br>"Math is ..."<br>Allison Henrich | Brasee Hall Art Gallery/ Lobby |

## Saturday, October 21

| Time | Event | Location |
|---|---|---|
| 8:00-10:00 | Registration | Brasee Hall North Lobby |
| 8:00-10:00 | Book Vendors & Exhibits | Brasee Haal 3rd Floor Lobby |
| 8:00-8:50 | Coffee & Pastries | Brasee Hall North Lobby |
| 8:15-8:50 | Local Arrangements Committee (if needed) | Brasee 302 |
| 9:00-9:10 | Welcome & Announcements, | Brasee Hall 211 |
| 9:10-10:10 | Invited Address<br>"How to Turrn your Knots from Blah into Fabulous"<br>Allison Henrich | Brasee Hall 211 |
| 10:10-10:30 | Break | |
| 10:30-11:45 | Contributed Paper Sessions | Brasee Hall<br>209<br>212<br>227<br>213 |
| 11:45-12:00 | Break | |
| 12:00-1:00 | Invited Address:<br>"Group Work and Project Based Learning"<br>Jillian Morrison | Brasee Hall 211 |
| 1:00-1:10 | Closing Remarks | Brasee Hall 211 |
| 2:00 - 4:00 | CONSTACT Afternoon Workshop | Brasee Hall 212 |

Event locations are subject to change. Check the official program you receive when you register for the meeting. Also check the OH Section webpage, www.maa.org/Ohio, for program updates, online registration, and contributed paper submissions.

# 2023-2024 Ohio Section Officers and Committees

## ELECTED OFFICERS

**President**
Chandra Dinavahi—Univ. of Findley
dinavahi@findlay.edu (2024)

**Past-President**
David Stuckey, Defiance College.
dstuckey@defiance.edu (2023)

**President-Elect**
Tom Wakefield—Youngstown State Univ
tpwakefield@ysu.edu (2024)

**Section Representative**
Phil Blau, Shawnee State Univ.
pblau@shawnee.edu (2024)

**Secretary**
Kyle Calderhead, Malone Univ.
kcalderhead@malone.edu (2024)

**Secretary-Elect**
Vacant

**Treasurer**
Giorgi Shonia—OU Lancaster
shonia@ohio.edu (2025)

**Treasurer-Elect**
Vacant

## OTHER OFFICERS

**Department Liaisons Coordinator**
Chris O'Connor, Shawnee State Univ.
coconnor@shawnee.edu (2024)

**Webmasters**
Tom Cuchta—Marshall Univ.
cuchta@marshall.edu (2025)

**On-line Registration**
Zhijun Yin
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**Newsletter Editor**
Brian Shelburne, Wittenberg Univ.
bshelburne@wittenberg.edu (2025)

**Ohio NExT Organizing Committee**
Liz Haynes-Wiget, Wilmington College
elizabeth_haynes-wiget@wilmington.edu (2025)

**OhioMATYC Liaison to OhioMAA**
Jim Anderson, Univ. of Toledo.
jim.anderson@utoledo.edu(2024)

**OCTM Liaison**
Liz Haynes-Wiget, Wilmington College.
elizabeth_haynes-wiget@wilmington.edu (2024)

**OH Rep on Committee on Bylaws**—
Chris Swanson– Ashland University
cswanson@ashland.edu (2024)

**Archivist**
Daniel Otero, Xavier Univ.
otero@xavier.edu (2025)

## COMMITTEES

Denotes committee chair. Elected Officers and Committee Chairs are voting members of the Executive Committee. Terms expire at the end of the Spring meetings of the year listed. See the Bylaws.

### Program Committee

*Alicia Prieto-Langarica –YSU (2025)
Anup Lamichhane—ONU (2025)

### CONTEAL

*Katie Cerrone Arnold, Univ of Akron (2024)
Aaron Blodgett, Univ of Findlay (2023)
Najat Baji, Sinclair Comm. C. (2024)
Laurie Dunlap, Kent State (2023)
Bradford Findell, Ohio State Univ. (2024)
James Fitzsimmons, Wilmington College. (2022)

### CONSTUM

*Matthew McMullen, Otterbein Univ. (2020)
Jaki Chowdhury, Ohio Northern Univ. (2024)
Matt Davis, Muskingum Univ. (2022)
Alyssa Hoofnagle, Wittenberg Univ. (2023)
M B Rao, University of Cincinnati (2025)
Chris Swanson, Ashland University (2025)

### CONSACT

*Jim Anderson, Univ. of Toledo (2024)
Ruma Dutta, Ohio State Univ. (2024)
Aurel Stan, Ohio State Univ. (2025)
Zhijun Yin, Univ. of Akron (2023)
Phil Blau—Shawnee State Univ. (2023)
Zijian Diao—Ohio Univ (2023)

### CONCUR

*Anup Lamichhane, Ohio Northern Univ. (2024)
Kevser Erdem, UC (2026)
Daniel Otero, Xavier Univ.(2023)
Jim Anderson, Univ. Toledo (2026)
Jim Fowler—Ohio State Univ. (2023)
Giorgi Shonia, Ohio Univ. Lancaster (2024)

## OTHER COMMITTEES

### Nominating Committee

*Zhijun Yin (2023)
Kathryn Cerrone (2024)
Chandra Dinavahi (President)
Kyle Calderhead, Malone Univ. (Secretary, nonvoting)

### Teaching Award Committee

*Tom Wakefield (2024) President-Elect
Gordon Swain, Ashland Univ. (2022)
M B Rao Univ. of Cincinnati. (2023)
Kyle Calderhead, Malone Univ. (Secretary, nonvoting)

### Future Ohio Section Meetings

Fall 2023: OU-Lancaster. Paul Abraham

Spring 2024: Ashland Univ. Chris Swanson

Fall 2024: Wilmington College. Elizabeth Haynes-Wiget

Spring 2025 OH-IN-KY Tri Section Meeting - TBD

MathFest Meetijgs

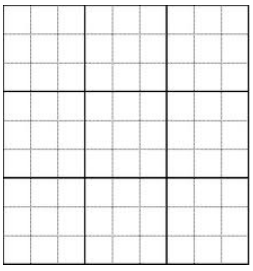
MathFest 2024: Indianapolis, IN , August 7-10, 2024

MathFest 2025 : Sacramento CA, August 5-8 2025 -

MathFest 2026: Boston MA, Aug 4-7 2026

MathFest 2027: New Orleans LA August 4-7 2027

Please report any errors or omissions to the Newsletter Editor: Brian Shelburne at bshelburne@wittenberg.edu.



**OHIO FOCUS**

The newsletter of the Ohio Section of the Mathematical Association of America, which first appeared in 1973, is published twice yearly in time to reach members before the fall and spring meetings. Newsletters are published online at sections.maa.org/Ohio. Notification emails are sent using addresses provided by the MAA.

Editor: Brian Shelburne,
bshelburne@wittenberg.edu
Professor Emeritus - Department of Mathematics and Computer Science - Wittenberg University
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The deadline for the next newsletter is
February 1, 2024
E-mail copy is preferred. Please send copy to the editor (see above), and also to the Section