

**MESSAGE FROM THE PRESIDENT
AARON J. ALTOSE, CUYAHOGA COMMUNITY COLLEGE**

Dear OhioMATYC Member,

I hope you are having a most excellent start to the spring semester! Thank you to all who attended and presented at last year's spring meeting at Punderson State Park. Although Friday started out looking cold, rainy, and dreary, the varied and engaging sessions kept our spirits up, and we even enjoyed a little bit of sunshine to go along with the lively Friday evening social hour and Saturday morning presentations. Our 2016 spring meeting will be held in southwest Ohio at Hueston Woods State Park. Please see the registration details and speaker proposal form on the back page of this newsletter or on our website at www.ohiomatyc.org. I look forward to seeing as many of you as possible in gathering for another tremendous OhioMATYC event!

In other higher education news, the Ohio Mathematics Initiative continues to make great strides in improving mathematics education in our state and beyond. This past December, the Ohio Articulation and Transfer Network announced new developments concerning the teaching of College Algebra, Statistics, and Quantitative Reasoning. Learning outcomes for the Ohio Transfer Module (OTM) courses in College Algebra and Statistics have been updated to demonstrate an increased focus on developing deeper thinking in our students and more attention on the "why" of the content in addition to the "what" and the "how" that have historically been more dominant in learning outcomes. To address the growing movement for education in quantitative literacy (QL) and quantitative reasoning (QR), a new OTM course in Quantitative Reasoning has been created. To support faculty members in their delivery of a quantitative reasoning course, the Ohio Board of Regents is organizing a statewide faculty training program, with a kick-off in Columbus on Monday, March 14. Please hold that date, and I will continue to provide you with updates over the upcoming weeks as the details become finalized. I am very proud of the many OhioMATYC members who made significant commitments of their time and effort to make these advancements, including Chelle Younker (Owens CC), Carl Stitz (Lakeland CC), Lee Wayand (Columbus State CC), Jeff Zeager (Lorain CC), and Terry Calvert (Edison State CC). More information about this work is available at <https://www.ohiohighered.org/transfer/transferrmodule/learningoutcomes>. On the national level, the report *Core Principles for Transforming Remediation within a Comprehensive Student Success Strategy* was released as a joint statement from six major higher education associations with the endorsement of seven additional national organizations as well as the higher education departments in 17 states (including Ohio). Please take some time to visit <http://www.core-principles.org> to gather more information about this report—it will undoubtedly influence the priorities and goals of our state and our institutions going forward.

I would also like to take the opportunity to encourage you to nominate a colleague or yourself for AMATYC's Project ACCESS. I can personally attest to the intense and immensely beneficial experience of an ACCESS fellowship, being a member of Cohort 5 (2008-2009) myself. Completing the year long experience directly influenced my subsequent involvement in OhioMATYC. Among other activities and responsibilities, ACCESS fellows commit to attending two consecutive AMATYC national conferences and, during the year between, attending an AMATYC Affiliate meeting, MAA Section meeting, or NCTM Regional Meeting. This is what prompted me to attend my first OhioMATYC Spring Meeting in 2009. Even though I didn't attend with any colleagues from my own school, members like Rod Null, T.J. and Michelle Duda, Nancy Sattler, and many more made me feel so welcome that I have been connected to OhioMATYC ever since. Project ACCESS fellows have come from Columbus State CC, Cuyahoga CC, Edison CC, Lorain County CC, Sinclair CC, and U. of Akron—Summit College; and three members of the current OhioMATYC executive board are past ACCESS Fellows! Please encourage your colleagues who are in their first three years of full-time community college teaching to apply for this extraordinary personal and professional development experience. You can find more details on page 3.

Thank you. Please have a great spring semester, and I look forward to reconnecting with you in April at Hueston Woods!



Aaron J. Altose, OhioMATYC President

CONGRATULATIONS ED GALLO BY DAVID STOTT, SINCLAIR COMMUNITY COLLEGE

Ed Gallo of Sinclair Community College retired effective the end of fall semester. Finishing over 13 years fulltime at Sinclair, Ed is recognized for his contributions to mathematics education, including receiving the AMATYC Teaching Excellence Award, the OhioMATYC Teaching Excellence Award and the OhioMATYC Distinguished Service Award. He served as Chair of the AMATYC Placement and Assessment Committee and locally at Sinclair with the AMATYC Student Mathematics League. He eagerly presented many sessions on teaching and learning at the national, state, regional and local levels, including at both OhioMATYC and InMATYC meetings. At Sinclair he especially contributed to the department's partnership with developmental math faculty, developing the teaching preparation sequence and the Mathematical Reasoning (Quantway) course, and teaching business statistics. Before coming to Sinclair, he served in the US Army, including teaching at West Point, and teaching for Indiana University and the Ivy Tech Community College of Indiana. Ed faithfully and admirably served his many students at Sinclair and elsewhere with passion and dedication.



'MATHEFOBIA' = MATH & BLENDED LEARNING BY HARSHA VARLANI

The growing fear of math and reluctance to study the subject is a threat across the globe, as it affects the overall numeracy skills of students, in-turn causing a drop in the numeracy levels across countries. One of the methods of shrinking 'Mathefobia' is by using the blended learning methodology, which combines technology and traditional teaching strategies. While traditional teaching strategies have worked wonders, over the years we have learned that adults have three major learning styles: auditory, visual and kinesthetic. *Hear a piece of information you will remember 10% of it, add a picture and you will remember 65%¹.* Blended learning brings together various teaching approaches and different learning styles, which gives the teachers the flexibility to design their courses. These resources can be used as an assessment to accurately stream students, at the learning center to upgrade student skills, boot camps or throughout the semester. Using resources that incorporated these methodologies have shown an average increase of 44% proficiency in math across students, in 3 weeks, with an added bonus of reducing the fear of mathematics. One of the biggest mindsets that students have is 'where am I going to use this?' another barrier in wanting to learn math and improve their numeracy skills. Now, mixing the above methodology with demonstrating the application of math in day-to-day activities, not only answers the bigger question of 'What's-In-It-For-Me', it increases the want to study, by reducing the fear of math.

¹ Brain Rules by John Medina

OHIO MAA'S PROJECT NEXT

Ohio NExT (New Experiences in Teaching) is a program for new faculty members. Its goal is to help newer faculty network with colleagues, to share ideas and experiences that promote professional growth, and to encourage faculty to become involved in the Ohio MAA Section.

On the Thursday evening preceding the Ohio Section Fall and Spring Meetings, members of Ohio NExT gather for a banquet (free of charge). This is a great opportunity to meet old friends and make new ones. After the banquet, the NExTers will spend an hour or so discussing a topic related to the profession. The next morning, the Ohio NExT program will continue featuring two workshops, as well as 15-minute contributed talks by Ohio NExTers. At this past spring's meeting, Annalisa Crannell of Franklin and Marshall College led a workshop entitled "Your Name in Space!" which discussed the mathematics of art and perspective. Carl Lee of University of Kentucky led the second workshop about "Taking Strategic Advantage of Geometry Software" and using 3-D printers. During the 15-minute talks, Kim Schroeder from Mountwest Community and Technical College gave a talk on OER's and Clayton Brooks from Marshall University covered "A Technique for Encouraging Presentations and Conversation within the Framework of a Service Course."

Ohio NExT is open to anyone in the Ohio MAA Section who is in his/her first five years of teaching in Ohio. If this applies to you, please consider joining us April 7-9, 2016 at Ohio Northern University for our NExT Banquet and Workshop, as well as the Ohio MAA Section Meeting that follows. Ohio NExT is coordinated by Chris Swanson (cswanson@ashland.edu), Katie Cerrone (kc24@uakron.edu) and Chandra Dinavahi (dinavahi@findlay.edu). Contact Katie for membership information and details.

CAMPUS CORNER

As an institution of higher learning, Sinclair Community College has been in existence since 1887. However, it wasn't until 1965 that Sinclair Community College was created as the public community college for Montgomery County. Sinclair is located in the south west corner of the state and operates five different locations in the region. In addition to the Dayton campus, Sinclair operates the Englewood, Huber Heights, and Preble County Learning Centers; as well as the Courseview Campus located in Mason, Ohio. Through its more than 220 certificate and degree programs, the college serves more than 30,000 students each calendar year.

Sinclair CC is home to current OhioMATYC Past-President Tony Ponder who serves as Dean of the Science, Mathematics & Engineering division, working with both the Math Department and the Developmental Math Department.



A MESSAGE FROM THE MIDWEST VICE PRESIDENT OF AMATYC JON OAKS

My name is Jon Oaks and as you may or may not know, I am the AMATYC Midwest Regional Vice President as of January 1, 2016, taking over for Jim Ham, who is now your AMATYC President Elect. I can't thank Jim enough for all of his hard work over the past 4 years as Midwest Vice President as he has done such a wonderful job in helping to keep the region running smoothly. However, it is really all of the hard work that you do in OhioMATYC to bring leadership opportunities and professional development opportunities to everyone in your state who has an interest in mathematics education in the first two years of college that matters the most. So, I want to thank you for all that you do in your great state of Ohio as well!

With that being said, I want you all to know that I am here to serve you in whatever possible way that I am able to do so – if you ever have any questions about anything that AMATYC does or about getting more involved in the organization, please don't ever hesitate to reach out to me. My e-mail address is jonnyoaks@gmail.com.

Enjoy your semester. Make it a great one!



AMATYC Webinars

Below you will find information on AMATYC's Upcoming Webinars. Webinars are great form of Professional Development that you can do from the comfort of your own home or office. AMATYC is always looking for webinar speakers. If you would like more information about participating in or facilitating a webinar, please visit <http://www.amatyc.org/?page=ProfDevForm> to request more information.

Bridging the Technology Gap: Free Technology Tools for Math

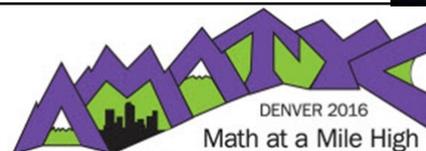
Tuesday, January 26, 2016 at 1:00 pm EST
Jon Oaks

More than a Decade of Mandatory Placement at Iowa Central Community College

Tuesday, March 22, 2016 at 4:00 pm EDT
John Hansen

So, You're Teaching Statistics for the First Time?

Tuesday, June 7, 2016 at 1:00pm EDT



42nd AMATYC Annual Conference

Denver, CO
Sheraton Denver Downtown Hotel
November 17-20, 2016

Affiliate Scholarship Continues! One member from OhioMATYC will receive a free conference registration. Attend the OhioMATYC spring meeting for your opportunity to win!

2015 AMATYC Conference

At the recent AMATYC conference in New Orleans, over 1342 AMATYC members, including 39 from Ohio, participated in top-notch professional development activities.

The 2015 conference proceedings are now available. For details, see <http://www.amatyc.org/?page=2015ConfProceedings>

AMATYC Project ACCESS is a mentoring and leadership program for two-year college mathematics educators who are beginning their careers. Funded in large part by the AMATYC Foundation, this year-long, multi-year project sends about 25 new AMATYC members to the AMATYC conference two years in a row and connects them with a community of learners. A new cohort of AMATYC fellows is selected each year.

The deadline to apply to be included in the next cohort is May 15, 2016.

Please consider nominating yourself or one of your newer colleagues.



Equip your mathematics faculty with the curricular, pedagogical, and technology tools to ensure that all students will have the mathematics they need to succeed in the 21st century. Bring in a Traveling Workshop for your campus professional development event or for a regional conference!

AMATYC will fund at least 8 traveling workshop grants for up to \$2,000 each in 2016. These Traveling Workshop grants will be awarded to (1) Affiliates, or (2) AMATYC Institutional members.



AMATYC Membership

I encourage you to learn about and join AMATYC if you are not a member. For more information about AMATYC events and activities, please check out the recent AMATYC newsletter at: <http://www.amatyc.org/> or visit the AMATYC website at amatyc.org. If you are a current member, I encourage you to continue your AMATYC membership throughout your career like so many of your committed OhioMATYC colleagues.

Other AMATYC Opportunities

Are you interested in Professional Development? AMATYC has many opportunities for you: Webinars, Travelling workshops, Conferences, Publications, and more. There is something for everyone! However, if there is some form of professional development that you would like us to offer, but we currently don't, please let us know that also!

PROBLEM CORNER

These are sample problems from the AMATYC Faculty Mathematics League Competition held each year during the national AMATYC conference. Solutions can be found at www.ohiomatyc.org.

1. Which of the following expressions is identically equal to $\sec(x + y)$?
 a. $\frac{\cos(x-y)}{\cos^2x - \sin^2y}$ b. $\frac{\cos(x+y)}{\cos^2x - \sin^2y}$ c. $\frac{\cos(x-y)}{\cos^2x + \sin^2y}$ d. $\frac{\cos(x+y)}{\cos^2x + \sin^2y}$ e. $\frac{\cos(x-y)}{\sin^2y - \cos^2y}$
2. The equation $a^5 + b^3 + c^2 = 2015$ has two solutions in positive integers. Find the integer ratio of the two possible values of c .
 a. 2 b. 3 c. 4 d. 5 e. 6
3. Let p and q be two constants for which the equation $4x - p = q$ has the solution $x = 12$. Find the solution to the equation $3x - q = p$.
 a. -16 b. -8 c. 4 d. 8 e. 16

2016 OHIOMATYC TEACHING EXCELLENCE AWARD

Consider nominating one of your colleagues for the 2016 OhioMATYC Teaching Award, designed to recognize an OhioMATYC member who has made outstanding contributions in the classroom. More details and the nomination form can be found at www.ohiomatyc.org.

Send nominations to: Michelle White, OhioMATYC Awards Coordinator, Terra State Community College
 2830 Napoleon Rd
 Fremont, OH 43420-9670

Nominations are due by March 1, 2016

2016 OHIOMATYC SPRING MEETING INFORMATION

Location: Hueston Woods State Park
Lodging Info: \$116 (Non View), \$120 (View)/night lodge rooms;
 \$170 /night cottages **[Room block available until Feb. 15]**
 Call for reservations: 1-800-AT-A-PARK (1-800-282-7275) and ask for the Ohio Mathematics Association of Two Year Colleges block
Tentative Schedule: Registration and lunch begin at 11:00 a.m. on Friday, April 1, with sessions beginning at noon. The sessions will conclude at 12:00 p.m. on Saturday, April 2.
Registration: \$45 for members registering before March 15
 \$55 for non-members and all registrations after March 15
Register and update your membership at www.OhioMATYC.org



OHIOMATYC SPRING MEETING SPEAKER PROPOSAL FORM

Name _____ Mailing Address _____
 School/ Institution _____ Phone _____
 Email (required) _____ Co-Presenter(s) _____
 Title of Proposed Session _____
 Description (50 words or fewer) _____

Proposed Session Length: 20 minutes 50 minutes 90 minutes

Equipment Needs: _____

Is this a textbook/software commercial presentation? If so, please explain: _____

You can fill out this form online at www.ohiomatyc.org or return a written copy to:

Tony Ponder (anthony.ponder@sinclair.edu)

Sinclair Community College

444 West Third Street

Dayton, Ohio 45402

DEADLINE FOR SPEAKER PROPOSALS IS March 1, 2016