

**MESSAGE FROM THE PRESIDENT
TONY PONDER, SINCLAIR COMMUNITY COLLEGE**

Dear OhioMATYC Member,

Fall has come and gone and spring semester (in January) is here! It seems like only yesterday we were outside in t-shirts and shorts now we are reaching for gloves, scarves and hats. Isn't Ohio great? It was great seeing everyone at the 2014 AMATYC Conference at the Opryland Hotel, in Nashville, Tennessee. The accommodations at the hotel were outstanding and the presentations were outstanding as well. I particularly enjoyed the presentation by Herb Gross, founding President of AMATYC. Herb's perspective on the history of AMATYC and higher education in general was both informative and inspiring. If you were unable to attend the conference, you may listen to Herb's presentation and the entire Saturday morning session at www.AMATYC.org.

The 2014 Spring meeting held at Mohican Lodge and Conference Center was a great success. More than 50 individuals attended last year's spring meeting. Special thanks to our sponsors for providing lunch for the membership. Additionally, I want to express my thanks to Sandy Franz and the rest of the OhioMATYC Executive Committee for all of the time and hard work they expended ensuring that last year's conference was a success!

At the OhioMATYC Business Meeting last spring, I announced that Sandy Franz had decided to step down as Past President of OhioMATYC. According to the OhioMATYC By-Laws, "any vacancy in an elected position will be filled by the Executive Committee for the unexpired term." As a result, I am pleased to announce that the Executive Committee has appointed Chelle Younker to serve as the Interim Past President of OhioMATYC. Chelle is a Professor at Terra Community College and a longtime member of OhioMATYC having previously served as President-elect, President and Past President; as well as a number of other positions on the Executive Committee. Please be sure to congratulate Chelle on her appointment.

2015 OhioMATYC Spring Meeting

The upcoming 2015 OhioMATYC Spring Meeting will be held on April 10th and 11th at Punderson State Park; located 40 miles east of Cleveland, Ohio on Route 87. Similar to last year's conference, the conference will begin with lunch at noon on Friday. On Saturday, sessions will begin at approximately 8:30 am and end at Noon on Saturday. More information will be forthcoming. I hope as many as possible will be able to attend. Further, please consider presenting at the conference. As one of the few organizations in Ohio focused on the teaching of mathematics at the post-secondary level, attending an OhioMATYC conference is a great way to enhance ones teaching ability. It also allows one to catch up with friends and colleagues from across the state. Register early by March 21 to receive \$10 off the cost of the conference registration. Additionally, why not take the opportunity to ensure that your membership to AMATYC is current? At the meeting of the Mid-West Region's Affiliate Presidents held at last year's AMATYC conference, it was noted that a significant percentage of AMATYC members/conference attendees were NOT members of their associated affiliate. This is very surprising given the relatively low cost of membership dues for state affiliates. It should also be noted that the number of delegates that the Mid-West region receives depends on the number of AMATYC members who also belong to their associated Mid-West region affiliate.

2015 AMATYC Conference

The 41st AMATYC Annual Conference, will be held in New Orleans, Louisiana, November 19 – 22. This year's theme is "Jazz it Up" so please make plans to attend. Additionally, please consider either presenting or serving as a presider at this year's conference. **The deadline for presentation proposals is February 1.** See you there!

2016-2017 AMATYC Executive Board Nominations

Serving as an AMATYC Officer is a great way to increase your level of involvement with the national organization. It also affords one with an excellent opportunity to serve through leadership. Nomination materials for the 2016-2017 AMATYC Executive Board are now being accepted. The positions being slated include President-Elect, Treasurer, Secretary, and the 8 Regional Vice-Presidents. Please contact Tony Ponder (anthony.ponder@sinclair.edu), should you have questions about the nominating process and/or visit the website below. **Please note that nominations must be submitted as a PDF to Jim Roznowski no later than February 1, 2015.**

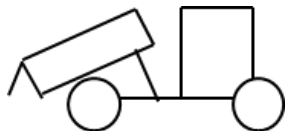
<http://www.amatyc.org/?page=ExecutiveBoardNomin>

See you at Punderson!

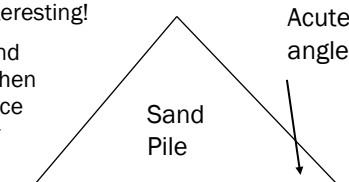
~Anthony Ponder, OhioMATYC President

A SAND STORY – FACT OR FICTION? BY ED GALLO, SINCLAIR COMMUNITY COLLEGE

The other day, I was talking to an old friend about how his business was doing. Joe told me that things were fine with his hauling business. He and his 8-yard dump truck were busy all the time. Then, Joe told me that he delivered a load of very fine sand to a customer who wanted the sand dumped in the middle of his wide, flat driveway. When Joe got out of the truck to see if all of the sand was dumped, he noticed (like he noticed a thousand times before) that the sand was piled up in a somewhat conical-shaped pile. Joe told me that he wondered about the measure of the acute angle between the slant height of the sand pile and the horizontal driveway. Interesting!



But, Joe continued by telling me that on the same day he made a second delivery of a course sand to another customer. He dumped the sand, then took a look at the pile before he drove away. Again he wondered about that acute angle. He did notice that the acute angle was not the same as the pile of very fine sand that he had dumped earlier. Very interesting!



Oh, but Joe then related how he made a third delivery of number 8 stone. (Number 8 stones are pea-sized stones from $\frac{1}{4}$ to $\frac{1}{2}$ inch in size.) Again, he dumped the stone, observed the stone pile, observed the acute angle between the slant height of the stone pile and the horizontal driveway, and drove away.

Joe finished his story by commenting that the acute angle appeared to be different for piles of different materials. And, finally, Joe asked me if there was a way to mathematically calculate the acute angle for a pile of very fine sand.

Now, this becomes even more interesting because I know that there is a mathematical way to find that acute angle! Oh, but what is it? I saw the development of the solution to this acute angle problem during a seminar by a Distinguished Visiting Professor at another college a long time ago. And, of course, the details of the mathematical work escapes me at this moment. So, I must close this Sand Story by offering a challenging to everyone. The challenge: Solve this acute angle problem for very fine sand and offer your solution in the next issue of the OhioMATYC Newsletter. Maybe your calculus students can help you with this!

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 contributed talks by Ohio NExTers. At this past fall's meeting Bob Devaney of Boston University lead a workshop entitled "Spreadsheets: An Amazing Tool to Enliven and Animate Mathematics" and Lew Ludwig of Denison University lead the second workshop on issues in teaching mathematics at the college level. David DeSario of Shawnee State University and Maduka Rupasinghe of Ashland University presented 15-minute talks.

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 this spring 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

Since opening its doors in 1963 as Ohio's first community college, Cuyahoga Community College (Tri-C®) has provided high quality, affordable education and programs to more than 900,000 members of the community. With four campuses and numerous other locations, Tri-C serves more than 60,000 credit and non-credit students annually in more than 1,000 credit courses in over 140 career and technical programs and liberal arts curricula. In addition, Tri-C partners with regional businesses to provide cutting-edge training and solutions to enhance workforce development in Northeast Ohio. Tri-C graduates stay in the region – over 85 percent find jobs in Northeast Ohio, providing a pool of skilled, educated workers for area employers.

Tri-C's Math Department is home to OhioMATYC's current President-elect, Aaron Altose. The department actively strives to improve student retention and completion with numerous on-going student success initiatives. The faculty members continue to stay active in various professional organizations, including OhioMATYC to stay up to date on the newest information available.



**A MESSAGE FROM THE MIDWEST VICE PRESIDENT OF AMATYC
JIM HAM, DELTA COLLEGE (UNIVERSITY CENTER, MICHIGAN)**



Around 60 Ohioans attended the conference, and the following AMATYC members from Ohio were presenters: **Carlynn Bouie, Katie Cerrone, Rachel Frankel, Judy Giffin, Amy Hollingsworth, Terri Kegley, Jessica Lickeri, Rod Null, Vanitha Parameswaran, Cathleen Rossman, Larisa Russell, Charlotte Skinner, Karen Smith, Brenda Stotesbery, and Kathy Struve.**

Ohio has always played a strong leadership role in AMATYC. The two AMATYC Presidents from Ohio, **Rikki Blair** and **Nancy Sattler**, continue to be leaders of the organization. **Tony Ponder** and **Nina Schyllander** currently serve as AMATYC delegates representing OhioMATYC, and **Judy Giffin** and **Jessica Lickeri** serve as Ohio state delegates. Other Ohio AMATYC leaders include **Bill Steenken, Mary Ann Hovis, Ed Laughbaum, Greg Foley, Kinga Oliver, Ed Gallo,** and others mentioned in this article.

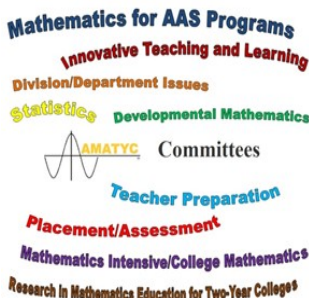


The following are Project ACCCESS fellows from the state of Ohio: **Donna McNatt, Karl Hess, Kristen Ramsey, Kathryn Leed, Heather Bubnick, Aaron Altose, Katie Cerrone, Jessica Lickeri, Derek Hiley, and Tristan Williams.**

AMATYC Project ACCCESS 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 1, 2015. Please consider nominating yourself or one of your newer colleagues.



AMATYC academic committees focus on a single theme and are open (free!) to all AMATYC members. The level of engagement in the committees varies from committee to committee and from year to year. You can be as active as you would like in the committees. One thing is sure: you will find a community of learners who are passionate about the committee theme.

OhioMATYC members **Chelle Younker** (left) and **Judy Giffin** (right) serve as regional representatives for an AMATYC academic committee. They shared their committee's work at the recent AMATYC conference.



One of my roles as a regional vice president of AMATYC is to encourage membership in AMATYC. I am happy to do this.

First some statistics: About 30% of OhioMATYC members are also AMATYC members and about 66% of Ohio AMATYC members are also OhioMATYC members. There are many two-year college mathematics educators from Ohio who belong to one but not the other of the two organizations. While this is not ideal, it is also not unusual if you look at membership trends nationwide.

An \$85 annual membership in AMATYC (adjunct & retired members pay only \$42.50) comes with many benefits. These benefits include a reduced conference registration rate, a newsletter published four times each year, and a journal (*The MathAMATYC Educator*) published 3 times per year. The journal is now available online. As a member, not only do you receive print versions of all future issues of the journal, you also receive online access to all past issues of the journal. There are also live webinars throughout the year covering a vast variety of topics. AMATYC also supports national advocacy for mathematics education in the first two years of college.

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/?page=AMATYCNews> 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.

Finally, I look forward to seeing you all at the OhioMATYC conference in April.



Start making plans to attend the 2015 AMATYC conference.
41st AMATYC Annual Conference New Orleans, LA
November 19-22, 2015
The conference hotel is located in the French Quarter on Canal Street, near all the great food and jazz.

Affiliate Scholarship Continues!
One member from OhioMATYC will receive a free conference registration.

PROBLEM CORNER

The following are sample problems from the AMATYC Faculty Mathematics League Competition held each year during the national AMATYC conference.. Solutions can be found on our website, www.ohiomatyc.org.

- The only integer pair with a difference equal to the quotient is (4, 2). Find the sum of the only pair of positive fractions with denominator 8 in lowest terms with this property.
A. 11.0 B. 11.25 C. 11.5 D. 11.75 E. 12.0
- The interior angles of an n-gon form an arithmetic sequence with the first term 128° and common difference 4° . There are two values of n which satisfy this condition. Find their sum.
A. 20 B. 21 C. 22 D. 25 E. 27
- For the function $f(x)$, $f(1) = 4$. Also, $f(x)*f(y) = f(x+y) + f(x - y)$ for all real numbers x and y. Find $f(5)$.
A. 720 B. 724 C. 728 D. 732 E. 736

2015 OHIOMATYC DISTINGUISHED SERVICE AWARD

The OhioMATYC Distinguished Service Award has been established to recognize professors who have contributed to mathematics education and is awarded in the spring of odd years. More details and the nomination form can be found at www.ohiomatyc.org.

Send nominations to: Michelle Duda
550 E. Spring Street
Columbus, OH 43235

Nominations are due March 1, 2015

2015 OHIOMATYC SPRING MEETING INFORMATION

Location: Punderson State Park

Lodging Info: \$106/night lodge rooms; \$151/night cottages

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 AM on Friday, April 10, with sessions beginning at noon. The sessions will conclude at 12:00 on Saturday, April 11.

Registration: \$40 for members registering before March 21
\$50 for non-members and all registrations after March 21



Register and update your membership at www.OhioMATYC.org !

Website: www.pundersonmanorstateparklodge.com

OHIOMATYC SPRING CONFERENCE SPEAKER PROPOSAL FORM

Name _____ Mailing Address _____

School/ Institution _____ Phone _____

Email (required) _____ Co-Presenter (s) _____

Title of Proposed Session _____

Description (50 words or less) _____

Proposed Session Length: 20 minute 50 minute 90 minute

Equipment Needs: _____

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

Aaron Altose
Cuyahoga Community College
Business, Math & Technology Division
4250 Richmond Road, Highland Hills, OH 44122
Aaron.Altose@tri-c.edu (216) 987- 2155

DEADLINE FOR SPEAKER PROPOSALS IS March 1, 2015