

SPRING 2018

**MESSAGE FROM THE PRESIDENT
JOHN S. NEDEL, COLUMBUS STATE COMMUNITY COLLEGE**

Dear Colleagues:

Greetings! I hope the start of the Spring 2018 Semester is going well for you and that you are having success in all your endeavors.

First off, I would like to invite you to the 2018 OhioMATYC Spring Meeting. This meeting will be held from Friday, April 13, 2018 to Saturday, April 14, 2018 at the Mohican State Park Lodge and Conference Center in Loudonville, Ohio. This is the same location as our 2017 Spring Meeting. Please plan to attend and consider presenting at the meeting. We are looking for presentations that cover all facets of our profession: pedagogy, curriculum design/redesign, developmental mathematics, Calculus and upper level mathematics, etc. I have been attending state-wide 2 year college mathematics conferences for the last 20 years and I can say with certainty that I have gotten the best ideas to apply in my classroom at these events. Also, there is ample opportunity for fellowship with your colleagues from around Ohio. We have a social hour after our Friday business meeting which is well attended and we have a bonfire after. This is an excellent way to meet others and to discuss issues in teaching 2 year college mathematics. Please see the registration details and speaker proposal form on last page of this newsletter or on our website at www.ohiomatyc.org. I look forward to seeing many of you at this event!

At the 2017 OhioMATYC Spring Meeting, we, for the first time, offered a pre-conference workshop. This event, which was offered before the scheduled Spring Meeting, discussed the efforts of the Dana Center and the Carnegie Foundation on designing co-requisite models for mathematics courses, redesigned pathways for Calculus, and the development of quantitative reasoning courses. We were very pleased with the attendance at this workshop and with its outcome. As a result, we are planning another pre-conference workshop for the 2018 Spring Meeting. This event will be offered on Friday, April 13, from 8:30 – 11:30am, just before the start of the Spring Meeting. The workshop will focus on Quantitative Reasoning in Ohio's higher education institutions and is free to all OhioMATYC members who are attending the Spring Meeting. "We are seeking your input about the design of the workshop so that we can cover the most useful topics. Please take 2 minutes to complete the survey at <https://goo.gl/forms/cheSUjKc3p2lB5MY2>. Thank you for your participation!"

Do you know a 2 year college mathematics instructor of exceptional quality that deserves recognition? Please consider nominating them for the 2018 OhioMATYC Teaching Excellence Award. The winner of this award will then be in the running for the 2018 AMATYC Teaching Excellence Award. To get more information and to nominate a colleague, please visit the OhioMATYC website at <http://www.ohiomatyc.org/index.php/awards/teaching-excellence-award>.

Finally, we need your help in the support of our endeavors here at OhioMATYC and at AMATYC. I have two service opportunities to propose to you. The first opportunity is for a 2018 OhioMATYC Spring Meeting Planning Support Person. This person would help the Past President, Aaron Altose, in developing the 2018 Spring Meeting Agenda and other support work related to the meeting. If you are interested in helping, please contact Aaron Altose at Aaron.Altose@tri-c.edu.

Also, AMATYC is starting a Student Research League competition and is asking OhioMATYC for one of its members to review and evaluate research projects from student groups from around the Midwest Region. This evaluation process would take place April 22nd to June 30th. You would work with affiliate representatives from around the Midwest Region and your charge would be to pick the top 3 teams to be forwarded for the national prize. If you are interested in serving as our OhioMATYC representative, please contact me at jnedel@csc.edu.

These two service opportunities are excellent ways to show service to the profession. If you are up for promotion soon and you need to document such service, please consider serving in one of the above capacities.

That's all for now. Continued success in your work. I hope to see you at the 2018 Spring Meeting!

John S. Nedel, OhioMATYC President

OHIO MAA'S PROJECT NEXT

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

Please note that the Ohio NExT schedule has changed significantly. If you have attended previously then you will want to pay particular attention to the new schedule. We hope that this new schedule will fit better with attendees' travel plans.

Preceding the Ohio Section Spring Meeting on the morning of Friday, April 6th, members of Ohio NExT will gather for lunch at 11 a.m. in Bachelor Hall, Room 114 on the Miami University Campus. This is a great opportunity to meet old friends and make new ones. After the lunch, the NExTers will spend an hour or so discussing a topic related to the profession.

Then, on Saturday, April 7th, following the Ohio Section Spring meeting, the Ohio NExT program will continue in Bachelor Hall, Room 114 on the campus of Miami University. The program will begin with lunch followed by a workshop from Betty Mayfield titled Another Kind of Undergraduate Research Experience: Investigations in the History of Mathematics and from Olga Brezhneva titled Active Learning Strategies for Undergraduate Mathematics Courses. Two contributed talks from Ohio NExTers will also be part of the program.

The Ohio NExT program is free to Ohio NExT fellows. Ohio NExT is open to anyone in the Ohio Section who is in his/her first five years of teaching in Ohio. If this applies to you, please consider joining us this spring or next fall. Contact Katie Cerrone (kc24@uakron.edu) for membership information and details.

Ohio NExT is coordinated by committee chair Chandra Dinavahi of the University of Findlay (dinavahi@findlay.edu) and committee members Katie Cerrone, University of Akron (kc24@uakron.edu) and Michael Schroeder of Marshall University (schroederm@marshall.edu).

An invitation to make an IMPACT

Written by Nancy Sattler, AMATYC IMPACT co-chair

AMATYC wants you to make a positive IMPACT on your students and on those around you in your professional life. The spirit and philosophy of AMATYC's newest document, *AMATYC IMPACT: Improving Mathematical Prowess And College Teaching* was approved at the delegate assembly this past November and is undergoing final edits. It can be found at <http://amatyc.org/impact>. The AMATYC IMPACT document is a guide to the AMATYC standards and discusses how to have an IMPACT on students, faculty, departments, institutions, states and the nation.

The main components of *AMATYC IMPACT* are based on the four pillars of PROWESS: PROficiency, OWnership, Engagement, and Student Success. This document provides guidance to inspire and challenge anyone who has a role in education to take action to develop PROWESS in their students. Every component of mathematics education (instruction, curricula, assessment) together with the individual roles as stakeholders (faculty, departments, institutions, policy makers) should focus on PROWESS. Together this impact will have a ripple effect on positive change in mathematics classrooms in Ohio and throughout the county! Teachers will affect the success of thousands of students each semester.

If you are not familiar with the AMATYC standards you might wish to read AMATYC's two previous documents. The first, *AMATYC Crossroads in Mathematics: Standards for Introductory College Mathematics Before Calculus*, written in 1995, can be found at <http://www.amatyc.org/?page=GuidelineCrossroads>. This signature document introduced three sets of standards for introductory college mathematics: Standards for Intellectual Development (problem solving, modeling, reasoning, connecting with other disciplines, communicating, using technology and developing mathematical power), Standards for Content (number sense, symbolism and algebra, geometry, functions, discrete mathematics, probability and statistics, and deductive proof), and Standards for Pedagogy (teaching with technology, interactive and collaborative learning, connecting with other experiences, multiple approaches, and experiencing mathematics.)

In November of 2006 AMATYC unveiled, in Cincinnati, the next AMATYC document was distributed to AMATYC members. *Beyond Crossroads: Implementing Mathematics Standards in the First Two Years of College* and was intended to stimulate faculty, departments, and institutions to examine, assess, and improve every component of mathematics education in the first two years of college. This document can be found at <http://beyondcrossroads.matyc.org/> And introduced a fourth set of standards called Implementation Standards (student learning and the learning environment, assessment of student learning, curriculum and program development, instruction, and professionalism.)

AMATYC has now created its third document, *AMATYC IMPACT* which will guide teachers in the 21st century to use the AMATYC standards in the two previous documents. To begin making an impact, I invite you to read the *AMATYC IMPACT* document and apply it to your own role in mathematics education. I also ask that you consider joining the newly created Mathematics Standards in the First Two Years of College Committee. To do this go to <http://amatyc.org> and sign-in. Click on the Groups tab, the last tab on the left side of the page. Then select AMATYC Committees followed by Mathematics Standards (IMPACT). By joining the committee you will be privy to the latest information about the AMATYC Standards and could choose to be part of creating digital products for IMPACTLive!, the online component of IMPACT. For more information contact me, Nancy Sattler at nsattler@terra.edu or contact committee chair Julie Phelps at jphelps@valenciacollege.edu.

A MESSAGE FROM THE MIDWEST VICE PRESIDENT OF AMATYC JON OAKS

I hope that everyone has had a great start to their winter/spring semester so far. The break between the fall and winter semesters just never seems long enough when there is so much to enjoy in the winter and over the holidays. In addition, over the break, AMATYC's 2018-2019 Executive Board held its Strategic Planning and Orientation Meeting at the AMATYC Headquarters on the Campus of Southwest Tennessee Community College in Memphis, TN.

During this meeting, the AMATYC Board had a chance to work on AMATYC's 2018-2013 Strategic Plan with the incoming AMATYC Committee chairs. We also had a chance to conduct some AMATYC business and here are some highlights from the meeting:

The board approved an Ignite! Event to be held on Friday evening during the AMATYC annual Conference in Orlando, FL, this fall. If you don't know what Ignite is, you can check out last year's Ignite session here: <http://bit.ly/AMATYCIgnite2017>

The board approved a Developmental Mathematics Committee themed session to be held during the AMATYC annual Conference in Orlando, FL, this fall. If you're interested in being a part of the themed session or just want more information about the committee, contact the Committee Chair Paul Wilhite at pwilhite@ntcc.edu

The board approved a Statistics themed session to be held during the AMATYC annual Conference in Orlando, FL, this fall. If you're interested in being a part of the themed session or just want more information about the committee, contact the Committee Chair Julie Hanson at julie.hanson@clinton.edu

The board approved revisions to the Teaching Excellence Award so that the eligibility requirements now state, "This award is also open to AMATYC members whose primary assigned duties are the delivery of instruction of mathematics courses in the first two years of college."

As a reminder, there are many great ways to get involved in AMATYC throughout the year, beyond just attending the AMATYC Annual Conferences. I would encourage you to join the AMATYC Midwest Regional Group on Facebook if you haven't already. On this page, I frequently post updates from around the region, reminders about upcoming webinars and other important dates, and opportunities for informal networking with others. This can be found at: <https://www.facebook.com/groups/amatycmidwest/>

Thanks for all you do in the wonderful state of Ohio and for your continued support of OhioMATYC and AMATYC. If there is ever anything that I can do to assist you at all, please don't ever hesitate to reach out to me at jonnoaks@gmail.com. I hope you have a great rest of the semester! Jon

Please consider joining one of AMATYC's Academic Committees, such as the Teacher Preparation Committee.

The Teacher Preparation Committee identifies and examines issues that pertain to the preparation of teachers of mathematics at all levels. Current issues include effective use of the mathematical practices and ways to ensure prospective elementary and secondary teachers are prepared to meet the implementation challenge in their classrooms. The committee facilitates sharing of ideas, resources, and current practices and serves as a support network among mathematics faculty and others involved in the education and professional development of teachers of mathematics.

Chaired by Mark Kuhlman
Casper College, mkuhlman@caspercollege.edu

AMATYC Webinars – Webinars are great form of Professional Development that you can do from the comfort of your own home or office. If you miss a webinar, you can always watch the recording online for free! Some of the 2018 webinars include:

Multiple Regression: From the Familiar to the Multi-Dimensional
Wednesday, February 7, 2018

How to Integrate Study Skills into Your Math Class to Increase Student Success and Retention
Wednesday, March 7th, 2018

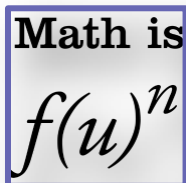
Consider Membership in AMATYC – I encourage you to learn about and join AMATYC if you are not a member. For more information about AMATYC events and activities, please check out the recent AMATYC newsletter at <http://www.amatyc.org/?page=AMATYCNews> or visit the AMATYC website at www.amatyc.org.

OhioMATYC Facebook Group COMING MARCH 2018!

We have decided to start an OhioMATYC Facebook Group to better communicate with our membership. At this group you can find announcement pertinent to OhioMATYC and its membership, articles related to Mathematics Education, and the ability to connect with colleagues from around the state to discuss issues related to 2 year college mathematics.

PROBLEM CORNER

1. If $\sin(x) + \cos(x) = \frac{7}{13}$, then the value of $|\cos(2x)|$ has a rational value $\frac{a}{b}$. Find $a + b$
2. Let x, y, z be positive integers such that $x^2 + y^4 + 3z^5 = 2017$. Find $x + y + z$.
3. The matrix $A = \begin{bmatrix} a & 2 \\ b & 4 \end{bmatrix}$ is nilpotent. Find $a - b$.



These problems are taken from the AMATYC Faculty Mathematics League Competition held at the 2018 AMATYC national conference in San Diego, November 2017.

Special thanks to Steve Blasberg and Steve Hundert who present the AMATYC Faculty Math League Contest.

2018 OHIOMATYC SPRING MEETING INFORMATION

Location: Mohican State Park

Lodging Info: \$107 + taxes per night for lodge rooms

[Room block available until March 12]

Call for reservations: 1-800-AT-A-PARK (1-800-282-7275) and ask for the OhioMATYC block

Tentative Schedule: Registration and lunch begin at 11:30 a.m. on Friday, April 13, with sessions beginning at 12:30 p.m.. The sessions will conclude at 12:00 p.m. on Saturday, April 14.

Registration: \$45 for members registering before March 23
\$55 for non-members and all registrations after March 23

Pre-conference symposium is free to all OhioMATYC members.

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 scan and e-mail a written copy to Past-President Aaron Altose at Aaron.Altose@tri-c.edu.

DEADLINE FOR SPEAKER PROPOSALS IS March 9, 2018