Rising Like a Phoenix!

by Ana Jiménez, Local Events Coordinator

It’s time. We have been cooped up at various stages of self-quarantine for months. It’s time to spread our wings and travel. What better place than magical Phoenix, Arizona, in October?

Conference sessions are sure to ignite your imagination with innovative strategies for teaching in any format: virtual, HyFlex, hybrid, and all of the variations that are sure to be a part of our new normal.

Between sessions, the Encanto Hospitality Foyer will kindle your verve with foam axe throwing, friendly games of cornhole toss, and a daily math trivia contest. Visit the Hospitality Foyer to sign up for dinners with colleagues and after-hours hikes.

Outside conference hours you can recharge your fire with all that Phoenix has to offer! You may have heard of the scenic attractions, museums, and cultural sites you can visit. But how about a revolving aquarium, a magical butterfly garden, or a prehistoric wonderland where dinosaurs come to life? All of this and more can be found at Arizona’s Boardwalk (www.azboardwalk.com).

We know your time here in Phoenix will be phantastic! We would like to share the most phun, phabulous, phenomenal photos on the website and in the AMATYC News. Post your best pics to social media with the hashtag: #PhoenixPhotoPhun #AMATYC and look to see if your pic is chosen as one of the Top Phive Photos of the Phoenix Conference!

If you haven’t registered for the conference yet, there’s still time. Do it. Then get excited as you visit the local events website to plan your stay. We’re going to have a roaring good time!

AMATYC 2021 Community Project

by Ana Jiménez, Local Events Coordinator

At this year’s AMATYC Annual Conference you will have an opportunity to participate in a community project aimed at increasing educational opportunities for students at Kamanzi Secondary School in eastern Kenya. Students at the school often miss class due to a lack of required uniforms, school fees, or feminine hygiene products. Through this community project, we will collect donations to meet these needs so that students can stay in school.

Because we are purchasing these products in Kenya, even a small donation can make a big impact. For example, the cost of a uniform is only $15. We invite you to participate by donating online at the local conference website: http://bit.ly/KamanziDonations.
Looking Back: AMATYC Successes and Challenges

Kathryn (Kate) Kozak
Coconino CC • Flagstaff, AZ

When I became the AMATYC president in January 2020, the pandemic was just underway but we didn't have a hint of what lay ahead. By March 2020 the reality of the pandemic was emerging, and life was beginning to change for all of us. Many of us experienced personal and professional heartaches and disappointment. Despite this there were some positive aspects to my two-year term as AMATYC president. Though I don't want to dwell on the negative aspects of the pandemic, I would like to honor the pain and then celebrate the good that happened.

On the personal side, I lost my mother in June of 2020. Though she didn't die of COVID, COVID impacted my ability to see her in person for her last months and days. I am thankful that she was able to see me become the president of AMATYC, and I know how proud she was of me. My mother's guidance shaped me into the person I am today, and I thank her for that. If you recently lost someone close to you during this strange time, I hope that you will find comfort and joy in your memories of them.

Professionally, teaching in a virtual environment is very challenging. In March 2020, right after spring break I started teaching through Zoom. I spent my spring break preparing to convert my teaching to this virtual format. Since it was new to me and I was unprepared for this, I reverted to primarily lecturing instead of active learning. Over the summer I took the time to develop more active learning components for the start of the fall 2020 semester. The processes I created can be used when I go back to teaching face-to-face. So in a weird way the pandemic has helped me develop as a teacher. I hope that you have also found ways that the pandemic has had a positive influence on your teaching.

As president I was supposed to represent AMATYC at many different meetings and conferences. But that didn't happen. Even though my experiences as AMATYC president were different from those who came before me, some good things resulted from pandemic-driven changes. We discovered that the AMATYC Executive Board can successfully meet virtually. This saved AMATYC a great deal of money and allowed volunteers who normally were not included in the meetings to attend virtually, bringing more voices into the discussion. This was so successful that the next board plans to continue holding virtual meetings.

The need to cancel the 2020 AMATYC Annual Conference in Spokane was a huge heartbreak. However, I was so proud of the conference committee for successfully orchestrating the 2020 virtual conference. Many of the attendees of the virtual conference were new to AMATYC. I believe this experience created some lasting friendships and also brought new members to AMATYC. Because of this success there will be a virtual component at both the 2021 and 2022 AMATYC Annual Conferences in Phoenix and Toronto.

Since AMATYC has been holding conferences, the Delegate Assembly has been held in conjunction with the conference. While it has been great seeing all the delegates at the conference, sometimes attending the conference has been a hardship for delegates. This often resulted in last-minute scrambling at the conference to find proxies for the delegates who couldn't attend. Because the 2020 conference was held virtually, the Delegate Assembly was also held virtually. This made it possible for more delegates to attend, and also allowed the AMATYC leadership to realize that the virtual format was effective. Therefore, the 2021 and 2022 Delegate Assemblies will also be held virtually during the virtual component of these conferences. The virtual format will make it possible for a wider variety of people to participate as delegates, reaching more people, and allowing more people to be involved in AMATYC. Some of these could be AMATYC's future leaders.

In past years, forums were held on Thursday evening of the conference to gather input from AMATYC members about position statements and bylaw changes. When these forums went virtual in 2020, they produced richer and better-attended discussions. As a result, the position statements presented to the Delegate Assembly were much stronger. This is a much better way to hold the forums. I doubt that we would have been able to revise the process for forums without the necessity of offering them virtually. In 2021 and most likely in future years, similar forums for position statements, and hopefully for bylaw changes, will be offered virtually during the summer to gather input from the entire AMATYC membership.

The AMATYC Executive Board was very active and had numerous meetings to guide AMATYC through these last two years. As a result, there were some changes made to the structure of AMATYC. The most visible change was that all Academic Committees and AMATYC Networks (ANets) will now be known as Academic Networks (ANets) with similar structures and support for the ANet chairs. This addresses an inequity between the Academic Committees and the AMATYC Networks. I look forward to this new structure.

AMATYC has had a strong relationship with our sister organizations. We have kept those relationships strong during the pandemic. I have attended other organizations’ virtual conferences, met virtually with the presidents of some of our sister organizations, and contributed to outside initiatives such as the Dana Center’s Launch Years.

I want to thank the 2020-2021 AMATYC Executive Board for all the effort they have given during these two years. They have made my job as president much easier and more fun. Though we have not met in person as a board, we have worked extremely well together and have formed some lasting friendships. I also want to thank Anne Dudley, the AMATYC Executive Director and Turi Suski, Conference Coordinator. Many years ago Anne encouraged my involvement in ArizMATYC and then AMATYC. Turi and I stepped into our roles for AMATYC at the
Project GAINS is Launching
by Laura Watkins, President-Elect

AMATYC’s Project GAINS (Graduate Student And Instructor Networking System) initiative is recruiting students and faculty this fall. We are working to build small communities where undergraduate and graduate students can network and learn more about a rewarding career teaching mathematics in the first two years of college.

In the coming months Project GAINS will host:
- a webinar about what teaching at a community college is like.
- a virtual career fair in which students can submit resumes for review.
- a virtual symposium for students to present their original research in mathematics or mathematics education.

Additionally, details about scholarships to attend an AMATYC local affiliate conference or the AMATYC Annual Conference are forthcoming.

If you want to help or would like more information about this project, contact Laura Watkins at laura.watkins@amatyc.org.

Final Call for
2022 Mathematics Excellence Award Nominations

Awarded every two years, the AMATYC Mathematics Excellence Award recognizes educators who have made outstanding contributions to mathematics or mathematics education in the first two years of college. Nominations for the 2022 award must be received by November 1, 2021. Go to www.amatyc.org/MathExcellenceAward today for frequently asked questions and for the link to submit a nomination packet. If you have questions, contact Jim Ham at jimham@amatyc.org.

President’s Message, Cont’d from page 2
same time. Anne, Turit, and I have worked very closely these two years, and I am not sure how I would have weathered my term as president without them. I know there are so many other people that I need to thank, such as my reviewers for my AMATYC News articles, Jennifer Travis, Judy Ackerman, and Michael Brilleslyper. I can’t list all the people that I am grateful for, but I want you to know that I really appreciated all that you have done for me and AMATYC. Lastly, I want to thank my husband Rich and our son Dylan for supporting me and putting up with the many hours that I had to work on AMATYC business. They are my rock and I really appreciate all they have done for me.

47th AMATYC Annual Conference Virtual Days
by Judy Williams, Program Coordinator

While I am writing this article in August, some of you may be waiting for college permission to travel to Phoenix for the 47th AMATYC Annual Conference. Some of you may already have your plane tickets and hotel reservations. You might even be on the way to Phoenix as you read the newsletter!

But what if you cannot attend the in-person conference? You can still be part of the conference by joining us for the Virtual Days on November 5-6. Each day’s presentations will begin at 11:00 am Eastern Time. Friday will wrap up by 5:00 pm with some social time. Saturday’s presentations will lead into the Delegate Assembly at 3:00 pm. These Virtual Days will be hosted in Whova, the new conference app, and may include breakout rooms, polling, chat, or Q&A. The 2020 AMATYC Virtual Conference was a hit; experience that same quality during the 2021 Virtual Days.

Register now for the Virtual Days at www.amatyc.org for $25 (member) or $125 (non-member). If you registered for the in-person AMATYC Conference in Phoenix, the Virtual Days are included. Watch for more details about the Virtual Days program via email or the conference app.

Download the Whova Conference App
by Nathalie Vega-Rhodes, Asst. Conference Coordinator, and Michael Pemberton, Asst. Program Coordinator

AMATYC is back in person in Phoenix and we are Fired up for Math and our new conference app, Whova. It allows for so much collaboration and interaction that we couldn't decide which feature is our favorite! Here are the top five reasons you'll want to download the new conference app:

1) Create your personalized schedule with the ability to sort by program key and interact with presenters. Presenters will be asked to upload their presentation and handouts and attendees can ask questions within the app. Access materials for up to six months after the conference ends.

2) Interact with our exhibitors directly from within the app. Our exhibitors can't wait to see you in Phoenix. Start the conversation early or keep the conversation going during our Virtual Days.

3) Collaborate and meet virtually with other attendees. Create meet-ups or discussions to chat about interesting topics or even plan to meet for a meal.

4) Looking for the next session’s room or your favorite exhibitor’s booth? Use the interactive map within the app to easily find what you need.

5) Access AMATYC Virtual Days. Registration for the in-person conference includes access to the AMATYC Virtual Days. All presentations will be housed within the Whova app.

There are so many more reasons to download the Whova app but we don't want to spoil all the surprises! Login instructions will be sent to the email address you used for registration. In the meantime, preview conference information at https://whova.com/web/event_202211/.
Student Research League:
Continuing the Success
by Vinodh Chellamuthu, Coordinator

The Student Research League (SRL) competition is complete, and the national winners have been selected by a dedicated group of faculty and STEM professionals from across the country. The awards for the national winners and Regional Finalists will be given at the AMATYC Annual Conference in Phoenix. There have now been four annual SRL competitions. Each year has been a great success, and each year improvements have been made. Thanks to Karen Gaines for all her hard work and creativity in initiating this extraordinary student research league for students in two-year colleges. The competition also owes its success to the support of faculty mentors, students, and evaluators. Their feedback has been vital to the continuous improvement of this amazing student competition. If you missed this year, mark your calendars and consider forming a team for the competition next spring. Registration begins January 1, 2022. You can also contribute by serving as a Student Research League Evaluator for your region. In the meantime, check out www.amatyc.org/StudentResLeague to learn what the competition is all about. You can read the guidelines and the past competition questions, and strategize about how to recruit a team from your college. We will also be at the poster session of the 2021 AMATYC Annual Conference to answer any questions. If you have questions about Student Research League, contact Vinodh Chellamuthu at vinodh.chellamuthu@dixie.edu.

Oh No, Not Another Webinar!
by Pat Riley, Webinar Coordinator

It has been a crazy year and a half. With the COVID-19 pandemic and so many things having moved to online, it is probably safe to assume most people are on webinar overload. There have been so many webinars provided by AMATYC and many other organizations. Most of these recent webinars have seemed to focus on transitioning classes to an online delivery format. For this reason there hasn't been too much variety in the webinars that have been offered.

As large parts of the country are starting to transition back to pre-COVID activities, it might be time to consider webinars that have been put on the back burner. Have you seen an interesting application of a math or statistics topic that you have been wanting to share? Have you traveled somewhere with amazing geometric architecture that would be interesting to others? Have you encountered any historical nuggets that you want to share? Is there a creative project that your students have done or a contest they have competed in? Do you have friends or colleagues with a topic or interest that you could each talk about for a few minutes to make a combined webinar?

All of these ideas might be just what we all need at this point – a chance to share our love of math in all of its formats just for our general interest. So many of us have felt like we are working nonstop just to stay above water. We could use a break to regenerate ourselves. Please consider sharing any ideas along these lines for future webinars.

To propose a webinar idea, contact Pat Riley at patrick.riley@kctcs.edu or visit www.amatyc.org/Webinars.

Mu Alpha Theta
Honor Society
by Jonathan Weisbrod, Liaison

Welcome back to another academic year! The shift to in-person instruction and student activities is starting to pick up steam. As a reminder, active Mu Alpha Theta chapters are eligible for chapter grants and competition grants. Is your chapter planning a significant event? A chapter grant may be for you. Will your students be participating in competitions that require registration fees or travel? A competition grant may be for you.

We are excited to recognize a new two-year college Mu Alpha Theta chapter: Central Arizona College in Coolidge, AZ.

Finally, I am always looking for conversation with current and potential chapter sponsors. Please consider attending the Mu Alpha Theta Webinar hosted by AMATYC on November 16 at 2:00 pm (Central).

The AMATYC News is the official newsletter of the American Mathematical Association of Two-Year Colleges and is published four times per year in January, April, August, and October. Your articles, announcements, comments, and letters to the Editor are welcome. Submit materials by November 25, February 25, June 1, and August 15 for the respective issues.

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Student Success through Departmental Change

by Karen Gaines, Teaching for PROWESS Project Director

The past 18 months made the world wake up and realize just how much we needed to change! Every industry was shaken to its core and forced to reevaluate how we do business. Mathematics education was no exception. The AMATYC Teaching for PROWESS (TfP) project has created a mechanism to help math departments take the first step in a paradigm shift of their mission as mathematics educators.

Teaching for PROWESS: Increasing Student Success in Community College Mathematics through Active Learning and Systemic Instructional Change (NSF DUE-2013493, -2012962, -2013232, -2013550) is a five-year collaborative NSF-funded project centered on understanding how active learning supports student success, how to foster departmental change, and the role of professional organizations such as AMATYC in these transformations. The Professional Development Team for the grant is working on a set of rubrics to help departments determine where they are doing well and where they can make improvements. The rubrics focus on seven areas:

1) Student Learning and the Learning Environment,
2) Instruction,
3) Curriculum and Program Development,
4) Assessment of Student Learning,
5) Professionalism,
6) Diversity, Equity, and Inclusion, and
7) Climate for Change.

We are looking for departments who would be willing to test out one or more of these rubrics. The process would involve:
• members of the department individually evaluating between 8 and 16 criteria (per rubric);
• the department discussing and reaching a consensus on their scores; and
• providing feedback on the rubric to the TfP Professional Development Team.

In addition to this opportunity, we are also accepting applications for colleges to participate in Phase 2 of the Teaching for PROWESS project. Visit the grant website https://teachingforprowess.wordpress.com for the Request for Proposals as well as complete information on the grant. The deadline is April 15, 2022.

If you are interested in either of these opportunities, please contact the TfP Professional Development Team at dennisebersole@amatyc.org.

In Memory of Pauline Chow

Oiyin Pauline “The Chowminator” Chow passed away on June 28, 2021, at the age of 69 in Alhambra, CA. Pauline left her family in Hong Kong at the age of 19 and came to the U.S. as a first generation immigrant. She completed her Bachelor’s and Master’s degrees at SUNY Stonybrook within three years. Over the next few years, she taught at numerous colleges in Philadelphia until 1984, when she joined Central Pennsylvania’s CC (HACC). Pauline’s career at HACC lasted over 35 years where she became famous for her wit and her passion for technology. Her students loved the Chowminator’s Top Ten List, a series of jokes presented at the end of every semester. They studied hard to win one of her prized math pencils, awarded for only the top exam scores. She brought humor to the classroom, using her Chinese heritage as a teaching tool and turning her challenges adopting the American culture and language into amusing anecdotes and lessons.

Pauline chaired the HACC math department for four years. She was the first Asian president of the Pennsylvania’s Council of Teachers of Mathematics (PCTM) from Hong Kong, and served as secretary for AMATYC. She co-authored three college-level math textbooks for McGraw-Hill and pioneered the field of online learning, with her math lectures from HACC garnering millions of views on iTunes U, Apple’s free online learning platform. She was a guest columnist for the local newspaper and a frequent speaker at conferences on education in the U.S. Pauline devoted her career towards education and always believed that anybody can learn and succeed.

Pauline is survived by her husband, Michael; a daughter, Amy; a son, Andrew; her sisters Loretta, Alison and Elizabeth; her brothers Samson, Jimson and Johnson; her mother, and many nieces and nephews.

Taken with permission of the family from the tribute published by the Penn-Live Patriot News. To see the complete obituary, visit https://obits.pennlive.com/us/obituaries/pennlive/name/pauline-chow-obituary?pid=199313938.
You’re Welcome! Call for Presenters & Presiders for 2022

The 48th AMATYC Annual Conference will be held in Toronto, Ontario, November 17–20, 2022. Toronto’s renowned multiculturalism is at the root of its inclusive and collaborative spirit. From the city’s focus on culture and diversity, world-class restaurants, and varied attractions such as art galleries, festivals, and sporting events, the city offers an abundance of opportunities for everyone to feel welcome!

As the city itself welcomes you, we want to make sure the conference program also encourages you to come to Toronto. A strong, exciting program requires high-quality, innovative proposals covering a full range of topics appropriate for the first two years of undergraduate education in mathematics, or the professional development of two-year college faculty. Our members are exceptionally talented as is demonstrated each year by the outstanding presentations at the AMATYC Annual Conferences.

Share your expertise with your colleagues in Toronto by submitting a proposal to present a 50-minute session, 25-minute mini session, 2-hour workshop, or poster at the 48th AMATYC Annual Conference. Proposals will be accepted at www.amatyc.org between November 1, 2021 and February 1, 2022. Proposals from two-year college educators are particularly welcome. Although proposals may be submitted for multiple formats, each format must engage participants and meet goals. Submission information should clearly outline the goals of the session, method in which those goals will be accomplished, and a breakdown of how the time in your presentation will be spent.

Here’s the exciting news: with the AMATYC Virtual Days to follow on December 2-3, 2022, you’re welcome to also choose those days for your session or mini session proposal. This means you can now choose to present in-person, virtually, or both! Each presentation during the Virtual Days may have up to two presenters.

Presentations containing information that attendees can apply immediately are the hallmark of AMATYC’s conferences. Broad topic areas include but are not limited to: maximizing the learning environment; diversity, equity and inclusion; reform efforts impacting content or pedagogy; effective methods of instruction; addressing different learning styles; enhancing the professional growth of mathematics faculty; and topics of interest to AMATYC’s wide variety of Committees and ANets. Visit the AMATYC website to learn more about proposals, additional topic details, and a complete listing of Committees and ANets. All Committees and ANets will be known as ANets starting January 1.

You may also volunteer to be a presider, either with your proposal submission, or separately at the same webpage. Presiders are an integral part of any successful AMATYC Conference. They ensure that sessions run smoothly, provide instructions to attendees about session evaluations, and return session information to the Conference Committee for future planning.

The proposal site for the 2022 AMATYC Annual Conference will become available on November 1, 2021. Although the deadline of February 1, 2022, seems far in the future, it will arrive very quickly. It’s never too early to start planning how you can welcome everyone to explore exciting ideas for next year!
CBMS 2021 National Survey of Mathematics Departments

Your Help is Needed in Fall 2021!

Every five years since 1965, the Conference Board of the Mathematics Sciences (CBMS) has sponsored a national survey that requests data about curriculum, pedagogy, enrollments, and faculty in the nation's undergraduate mathematical sciences at two-year colleges and four-year colleges and universities. The CBMS2020 survey was to be distributed in Fall 2020. However, the survey was put on hold until Fall 2021 due to the pandemic.

A random sample of 200 public two-year colleges has been selected from the list of all two-year colleges in the U.S. The 2021 online survey was sent to the mathematics department chairs at the sampled colleges in early September. It is critical that the response rate for the two-year colleges be as large as possible.

If you are a department chair who received a questionnaire, please complete the questionnaire and return it by October 31, 2021. Your participation is extremely important.

If you would like to see previous survey results, the publications from the last six CBMS surveys are available at www.cbmsweb.org.

Interesting data include:

- course offerings, enrollment, and section sizes in two-year college mathematics courses, including distance learning and dual enrollment;
- number of full-time permanent, temporary, and part-time faculty and characteristics of the faculty;
- information about trends in instructional strategies, teacher preparation, developmental mathematics, and use of technology.

If you have questions, please contact Rikki Blair, CBMS2021 Two-Year College Co-Chair and Team Leader, at richelle.blair@sbcglobal.net.

National Mathematics Summit

Mark your calendars! The Fifth National Mathematics Summit (NMS) will be held in Atlanta, GA, at the Marriott Atlanta Marquis on March 16-17, 2022, prior to the National Organization for Student Success (NOSS) Annual Meeting. The conference will open with a keynote address by Julie Phelps, titled “Positive Results of the Pandemic: It’s All About the Silver Lining.” Julie is the chair of AMATYC’s Mathematics Standards in the First Two Years of College (IMPACT) Committee. She will address positive results of the pandemic from a variety of perspectives, including faculty, advising, students, and support services. The registration fee is $125. To learn more or to register, visit https://thenoss.org/Math-Summit. In addition, watch for upcoming webinars sponsored by the NMS in conjunction with partners NOSS, the Charles A. Dana Center, Carnegie Math Pathways, Paul Nolting, and the Mathematical Association of America.

AMATYC Board Conference Call Highlights

by Nancy Rivers, Secretary

The 2021 Summer Conference Call of the AMATYC Board was held virtually on July 7. Highlights and actions taken by the board during this meeting include:

- Revising the academic committee and AMATYC network structures. All existing academic committees and AMATYC networks will become Academic Networks (ANets) on January 1, 2022.
- Instituted the AMATYC Regional Scholarship Program. Beginning in 2022, eight regional scholarships, one per region, will be awarded in the amount of a discount AMATYC Annual Conference Registration. AMATYC members are encouraged to support this scholarship through donations to the AMATYC Foundation.
- The following appointments and reappointments were made.
  - Jennifer Travis, Lone Star College-North Harris, AMATYC News Editor
  - Megan Breit-Goodwin, Anoka-Ramsey CC, Grants Coordinator
  - Sean Saunders, Sheridan College, Toronto Local Events Coordinator
  - Patricia (Pat) Barrientos, El Paso CC, Adjunct Faculty Issues ANet Chair
  - Kimberlyann (Kim) Granger, St Louis CC-Wildwood, Developmental Mathematics ANet Chair
  - Chris Ward, Southern WV CTC, Division/Department Leadership ANet Chair
  - Jennifer Ackerman, Kentucky Community and Technical College System, Innovative Teaching and Learning ANet Chair
  - Barbara Leitherer, CC of Baltimore County, International Mathematics ANet Chair
  - Kathy Kazemi, College of Southern Nevada, Mathematics for Liberal Arts ANet Chair
  - Robert Cappetta, Florida SouthWestern State College, Mathematics Intensive ANet Chair
  - Christine Mirbaha, CC of Baltimore County-Dundalk, Placement and Assessment ANet Chair
  - Elizabeth M. Allen, Three Rivers CC, Statistics ANet Chair
  - Mark Kuhlman, Casper College, Teacher Preparation ANet Chair
- Approved the updating of our standards to include missing areas, such as equity, data science, and the use of newer technology. Dennis Ebersole, Mid-Atlantic Vice President, will lead a task force for this purpose.
AMATYC Research Session
by Ann Sitomer, Chair

AMATYC’s Research in Mathematics Education at Two-Year Colleges (RMETYC) Committee is committed to sharing research findings that connect our teaching practices to the work in our departments. This year’s Research Session at the AMATYC Annual Conference will be on Thursday evening, 7:00 pm–9:30 pm. Please join members of AMATYC’s research community at this annual event.

The Research Session will start with a keynote by Naneh Apkarian of Arizona State University, titled “Culture, Change, and Instruction in Postsecondary Mathematics.” Naneh’s research focuses on improving postsecondary STEM education through systemic transformation grounded in local contexts and cultures. She has been part of several mixed methods national studies of precalculus and calculus education, utilizing quantitative and qualitative methods to produce national portraits and in-depth case studies. Additionally, she has conducted studies of undergraduate mathematics classrooms to better understand individual and collective learning processes. She takes a systems view of postsecondary STEM to understand the present and work toward the future. Her talk will focus on both two-year college and university settings.

The keynote is followed by two concurrent sessions of research talks. The first session includes a presentation by Jaqueline Coomes, “Creating and Applying a Research Reporting Framework for Corequisites.” The need for such a framework is essential if we want to know anything beyond pass rates when examining research on corequisite models. The concurrent presentation in this session will be given by Aladar Horvath, “An Analysis of Substitution Across the 9–13 Curriculum.” This analysis of how substitution is presented in mathematics curricula could help us understand learners’ struggles with function composition.

The second session includes two separate presentations from the Math Persistence through Inquiry and Equity (MPIE) project at San Diego State University. The site of this research is a two-year Hispanic Serving Institution (HSI). Both presentations will include a brief overview of the project. In their presentation, “Mathematics Persistence through Inquiry and Equity at a Two-Year HSI,” Amelia Stone-Johnson and Mary Pilgrim will present findings from analysis of data gathered during the first year of the project. They will share how these findings were used to develop professional development opportunities for faculty teaching gateway mathematics courses.

The other presentation, “Gateway Mathematics in the ‘Time of AB 705 (and COVID-19),’” focuses on instructors’ and students’ experiences with changes brought about by policy as well as by COVID-19. Similar to policies in other states, California legislative bill AB 705 requires that community college students receive the opportunity to complete college-level mathematics and English within one year. Several members of the MPIE team will contribute to this presentation: Brinley Stringer, William Zahner, Mourad Mjahed and Ernesto Calleros.

Focusing on Leadership:
Division/Department Leadership ANet
by Christine Mirbaha, Leader

Are you in a leadership role at your college? Or are you interested in taking on a leadership role in your department or division? If you answered “yes” to either of these questions, then the Division/Department Leadership ANet is for you. We are a network of AMATYC colleagues from around the country and beyond who are, have been, or hope to serve in leadership roles at their college.

We need you – your experience and your ideas – to strengthen our network and help us to move forward as leaders in our departments, divisions and colleges. Everyone is welcome! Some ideas being explored include holding focused webinars, publishing relevant articles in AMATYC’s publications, and presenting sessions on leadership topics at local, regional and national AMATYC and other relevant conferences.

If you have an interest in mathematics department leadership issues, or if you know of someone who would benefit by the support this provides, the Division/Department Leadership ANet is a great way to get involved! To join our ANet visit myAMATYC (https://my.amatyc.org) and click on Communities. You can also contact Christine Mirbaha at cmirbaha@ccbcmd.edu.

Statistics Committee
by Julie Hanson, Chair

The Statistics Committee would like to express our appreciation to the presenters of two recent webinars sponsored by the AMATYC/ASA Joint Committee (AMATYC’s Joint Committee with the American Statistical Association). On August 4, Kathleen Almy and Kelly Spoon presented a webinar titled “Authentic and Alternative Assessments for the Intro Stats Course.” On September 2, Nicholas Horton presented a webinar titled “The Data Science Corps Wrangle/Analyze/Visualize (DSC-WAV) Project.” His webinar was co-sponsored with the AMATYC Data Science Subcommittee. The recording and other materials from these webinars are available at www.amatyc.org/Webinars and at www.amatyc.org/StatsResources.

If you teach statistics, please consider joining our Statistics Community on myAMATYC (https://my.amatyc.org). For more information about the AMATYC Statistics Committee, contact Julie Hanson at julie.hanson@clinton.edu.

SML Problem Corner
Can YOU work a Student Mathematics League problem?
This one is from the Fall 2015 competition.

My piggy bank has 42 coins worth exactly $1.00.
If it has at least one quarter, dime, nickel, and penny, find the total number of dimes and nickels.
What’s the Difference?
www.amatyc.org or my.amatyc.org?
by Karen Gaines, Online Community Coordinator

Have you ever wondered why AMATYC has two websites?

In general, the www.amatyc.org site is where users should go for insight about the organization. It provides information related to:

- AMATYC Membership
- Conferences
- The Foundation
- How to Get Involved
- Publications
- Student Leagues
- AMATYC Events Calendar
- Professional Development Opportunities
  - Project ACCCESS
  - Webinars
  - Traveling Workshops
  - Faculty Meet-ups
  - Teaching Videos

The my.amatyc.org site is intended to be a place for collaboration with other members. Here you will find:

- Communities – to support sharing of ideas among people with similar interests
  - Regions
  - AMATYC Committees and ANets
  - Special projects and groups
- IMPACT Live! – designed to keep our Standards alive through updated information and sharing of ideas
- Libraries – to share materials and presentations
- Events – information about workshops, webinars, and conferences hosted by AMATYC and other organizations
- Directory – for easy contact with other members

For questions or suggestions about the myAMATYC site, email Karen Gaines at occ@amatyc.org.

If you have problems signing in, contact the AMATYC office at amatyc@amatyc.org.

Standards Committee and IMPACT Live!
by Evan Evans, Digital Coordinator, Julie Phelps, Standards Committee Chair, and Karen Gaines, Online Community Coordinator

The Mathematics Standards in the First Two Years of College (IMPACT) Committee and IMPACT Live! are continuing to grow and build momentum – all thanks to you!

We have great news: the Standards Committee-sponsored podcast called “IMPACT Live Wire” is a hit! This monthly podcast features interviews with various members of our communities, emerging leaders, innovative thinkers, and other exciting people who support AMATYC’s mission and have an IMPACT on our lives. The podcast has been a huge success. To find out why, go to the IMPACT Live! site to check out the latest interview or search the library for archived episodes.

We are excited that we are keeping our signature document, IMPACT, alive and continuously relevant in these ever-changing times through IMPACT Live! Many thanks to the various communities who have hosted and contributed to IMPACT Plus, the research-based extension of our signature document.

Each season on IMPACT Live! revolves around one of the four pillars of our IMPACT document: PRoficiency, OWnership, Engagement, and Student Success. AMATYC Communities are encouraged to host a month to promote their activities and add to the original vision of IMPACT – making it a living document through IMPACT Live!
My Equity Journey: A Personal Reflection
by Nancy Rivers

I grew up in small towns in West Virginia and Florida. From first through eighth grade, I only had white classmates. Even in three of my four high school years I had almost all white classmates. This continued to be true throughout college. As I worked my way through a B.A. and M.S. in Applied Mathematics at the University of Florida, my classes became more and more predominately white male.

Despite my lack of personal experience with people of color, I was raised to be a non-racist person. Or so I believed – most of my life so far! I have said many times that I treat all people the same; that on a hiring committee I tried to hire the best person for the job without consideration to their race, ethnicity, gender, or any other classification. I have a diverse group of friends.

Then the recent rash of unjust killings of black men started and I began to wonder what I might be able to do, if anything. My real equity journey then began with a book club. Six of us decided to meet virtually to discuss Robin DiAngelo’s book, White Fragility: Why It’s So Hard for White People to Talk About Racism. Through the reading and our discussions, I have come to see that I was guilty of the delusion of “color-blindness.” Sitting comfortably in my position of white power, thinking all people were the same – how could I have been so wrong all those years?

As I was reading DiAngelo’s book I was also reading various magazines, such as Smithsonian, Time, and National Parks Magazine. In each of these magazines I found articles detailing the inequities throughout the history of the United States. I learned of horrific occurrences of which nothing was said in my history classes. My eyes were beginning to see the racism that has persisted – in this country and in myself.

The book discussion group found value in our journey and we are now on our second book, Ibram Kendi’s How to Be an Antiracist. Kendi shares his own journey dealing with racism, realizing that all people should consider individual persons without clumping them into groups – groups with negative connotations. I have found myself convicted of this same failing and am effecting change in myself.

For my own growth, I have completed the Black Minds Matter online course. Through this course I learned about microaggressions – another failing on my part. I have learned that we should consider how every action or inaction we make is seen by others and of the criminalization of black boys during their childhood and youth that contributes to the school to prison pipeline. Educators have the power to effect change – but we must educate them first!

The book discussion group is nearing the end of Kendi’s book and so we have begun to look for our third book. My equity journey has just begun. Let the growth continue!

Note: The article above is one AMATYC member’s perspective as they reflect on equity in their own journey, and does not necessarily reflect the views of AMATYC as an organization. AMATYC encourages others to submit their own personal equity journey for possible inclusion in a future AMATYC News.

Equity Committee
by AJ Stachelek, Chair

I want to take this opportunity to encourage everyone to gain insight into equity in mathematics education while attending this year’s annual conference. While all presentations, meetings, and keynote speakers at the conference are sure to be amazing and informative, my goal in this newsletter is to highlight those that selected the program key for equity (EQ) as a key component of their presentation – fifteen presentations in total.

Aside from these presentations listed below, I highly recommend that you join us at our Equity Themed Session on Thursday at 8:00 am for several mini-presentations with a strong focus on equity, as well as our Equity Committee meeting on Friday at 11:25 am. And of course, don’t miss Talithia Williams’ keynote presentation at the Saturday Awards Breakfast, “Power in Numbers: Unveiling Hidden Figures.”

Thursday:
• Implicit Bias and Unconscious Bias in the Mathematics Classroom (S006)
• Developing Statistical Thinking in a Social Justice Context (S025)
• Validating Measures of Quality Instruction for Community College Algebra Instruction (S038)

Friday:
• What’s Really in Your Backpack: Unpacking Privilege (S042)
• Closing Opportunity Gaps through Ethnomathematics (S047)
• Racism and the Development of Inferential Statistics (S058B)
• Redesigning Gen Ed Math Classes with Classroom-Embedded Peer Tutors (S059B)
• How to Incorporate Growth Mindset with Inclusion and Equity in Mind (S066)
• Developing Culturally Relevant Math Contexts through Collaboration (S080)

Saturday:
• Collaborating for Equity (S106)
• Building Community to Support Under-Represented Students (S111)
• Stats in Your Life: Inclusive Activities to Engage Diverse Students (S114)

Sunday:
• Promoting Equity with Course-Based Undergraduate Research Experiences (S121)
• Designing Introductory Statistics Courses for a 21st Century Student (S122)

Following this conference, I hope some of you are willing to share with me via email what you learned at each of these presentations and events at the conference. I would love to include some of the most common takeaways from these conference sessions in the next newsletter! Also, please do not hesitate to join our committee and/or write to me about anything equity-related at equityinmathed@gmail.com.
Your Contributions Make Us Stronger  
by Jim Ham, Foundation Chair

In this, my last article as Foundation chair, I would like to express my gratitude to members, friends, and AMATYC leaders who have contributed in myriad ways to ensure the financial health of AMATYC.

It is no surprise that running a non-profit organization during a pandemic presents financial challenges. AMATYC's main revenue source is the annual conference, and when the conference is cancelled or the attendee numbers are down, AMATYC runs a deficit and must dip into its reserves.

To their credit, the AMATYC Foundation and the AMATYC Investments Board have invested member donations wisely over the past several decades. Wisely investing these donations lessens the negative financial impact during down years. It has been a pleasure to work with these dedicated and financially savvy individuals over the past several years.

I would also like to thank the AMATYC Executive Board and all AMATYC leaders who have made sacrifices or who have taken on more work during the pandemic. In the past two years the Board has implemented numerous cost-saving measures. Conference contracts have been renegotiated, avoiding hundreds of thousands of dollars in fees. The Conference Committee created AMATYC's first-ever virtual conference last fall in a few short months and have maintained close relationships with our valued vendors and corporate sponsors.

Fundraising remains a high priority, particularly during these difficult financial times. The Foundation Board is planning a fall fundraising campaign. The first phase of fundraising will occur at the annual conference with the traditional “dot campaign” where members may donate $1 for each AMATYC conference they have attended. Members may also earmark their donations at the conference to specific funds such as student awards or membership grants. For those who are unable to donate at the conference, the Foundation will conduct a second-phase email fundraising campaign that will begin in early November and end November 30, the day identified as “Giving Tuesday.”

Thanks so much if you have already contributed to the Foundation this year. If you have not yet made a contribution in 2021, please consider donating at the conference or online at www.amatyc.org/FoundationDonation.

AMATYC Foundation 2020 Honor Roll

The AMATYC Foundation sincerely thanks all who gave generously in 2020. These donations support AMATYC initiatives such as Project ACCCESS, traveling workshops, student competitions, and member grants. Contributions to the Foundation also support AMATYC awards, including the Margie Hobbs Award, the Leila and Simon Peskoff Award, and the Wanda Garner Presidential Student Scholarship. All contributions help AMATYC achieve its vision to be a leading voice and resource for excellence in mathematics education in the first two years of college. As always, thank you for your contribution and we look forward to seeing your name on the AMATYC Foundation 2021 Honor Roll next year!

AMATYC strives for accuracy within this Honor Roll listing. If information is incorrect or missing, or if a different name is preferred, please accept our sincere apology and contact Beverly Vance at amatyc@amatyc.org so that appropriate corrections can be made.

President’s Club (Gold)
Anonymous

President’s Club
Anonymous
Judy Ackerman
Allen Angel
Cheryl Cleaves
Anne Dudley
David Dudley
Karen Gaines
James Ham
Marilyn Mays
Pat McKeague
Fred Peskoff
William Steenken
Edouard Tchertchian
Peter Wildman

Patron
David Ellenbogen
Philip Cheifetz
Dale Ewen
Gregory Foley
Alice Kaseberg
Jane Tanner

Sponsor
ArizMATYC
Rob Eby
Barbara Leitherer
John Pazdar
Ronald Rosier

Friend
Aaron Altose
Steven Blasberg
Ernie Danforth
Guy De Primo
Mark Earley
Peter Georgakis
Sophia Georgiakaki
Alan Ham
Alan Hayashi
George Hurlburt
Barbara Johnson
Darlene Kohrman
Nicole Lang
Eric Matsuoka
Edward Nichols
Cheryl Ooten
Joan Page
Sarah Pauley
Margaret (Peggy) Reijo
Nancy Rivers
Behnaz Rouhani
Dennis Runde
John Smith
Turi Suski
TexasMATYC
Jennifer Travis
Laura Watkins

Supporter
Johanna Debrecht
Dennis Ebersole
Daniel Fahringer
Becky Groseth
Julie Gunkelman
Jeffrey Hughes
Steve Kifowit
Violeta Kovacev-Nikolic
James Moore
Sharon North
Mary Beth Orrange
Michael Pemberton
Manisha Ranade

Contributor
Jennifer Ackerman
Nkuchi Agwu
George Alexander
Aisha Arroyo
John Bennett
Launae Benson-Lender
Annette Cook
Kim Ghiselin
Essma Haddam
Peg Hohensee
Lori Holdren
Eric Hutchinson
Barbara Illowsky
Sarah Jackman
Kathryn Kozak
Richard Leedy
James McCoy
José María Menéndez
Leslie Meyers
Sarah Miller
Michael Minic
Jeff Morford
Penny Morris
Mika Moteki
Keith Nabb
Jon Oaks
Miriam Pack
Mary Pearce
Celeste Petersen
Carrie Quesnell
Kyra Rider
Pat Riley
Joan Romano
Shannon Ruth
Chris Sabino
Rachael Schetthelm
Tess St. John
Barbra Steinhurst
Luke Walsh
Sherri Warren
Judy Williams
Lisa Winch
Suzanne Wolfram
Bruce Yoshiiara

AMATYC News
Focus on Affiliates: CMC³
by Jen Carlin-Goldberg, CMC³ President

CMC³, the California Mathematics Council Community Colleges, was founded in 1972 to support mathematical activity by students and faculty, and to provide a forum through which community college mathematics faculty in Northern and Central California can express themselves professionally at the local, state and national levels.

We hold two conferences annually, a recreational math conference in South Lake Tahoe each spring and our larger fall conference in Monterey every December. We work at the state level with the Academic Senate and the California Community College Chancellor’s Office to interpret and inform our membership about legislation and programs that affect our faculty and students and to advocate for community college education.

Our CMC³ Foundation awards over $6,000 in student scholarships each year. The Foundation sponsors member college scholarships, a student poster competition, and a student speaker contest. These scholarships are possible because of generous donations by our members.

Like many of you, we were set back somewhat by the pandemic. We couldn’t get together with our membership in person, so we focused on strengthening our campus representative program. We reached out to the colleges in our region and asked our members to recommit to being on-site representatives or to nominate their replacements. We put together structured emails several times during the year that the reps could easily personalize or just copy and paste to send to the faculty at their colleges. We highlighted CMC³ happenings, AMATYC opportunities, service opportunities and included copies of our most recent newsletter, which can be found on our website at http://cmc3.org.

Under very trying circumstances and logistical constraints, the CMC³ Board came together and devoted their time, energy, and effort to planning, organizing, and facilitating our first ever virtual conference. We were proud of what we were able to accomplish and believe our virtual conference was both successful and meaningful. We were pleased that Eddie Tchertchian, AMATYC West Regional VP, was able to open the conference for us. The virtual conference was fun, informative, and uplifting. It was exactly what our members needed after a long semester battling COVID-19 and teaching online. In addition to stirring keynote talks and informative breakout sessions, our Past President and current Foundation President, Katia Fuchs, demonstrated how to make a delicious Zoomtini. The recipe is available on our Fall 2020 conference web page. Feedback from conference attendees was positive so we followed up with a virtual conference in the spring and will be hosting virtually again this fall. We plan to return to an in-person conference format in 2022 as we celebrate our 50th anniversary. We couldn’t be more excited and our fall conference will be one to remember!