

AMATYC NEWSSM

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COME RE-IGNITE THE MAGIC AT THE MAIN ATTRACTION IN ORLANDO!

by Penny Morris, Orlando Local Events Coordinator



This November promises to be an exciting time in the Central Florida region as you are invited to beautiful Orlando and the Walt Disney World® resort for the 2018 Annual AMATYC Conference! With beautiful weather (an average high in November of 78 degrees), amazing attractions everywhere you look, and amazing adventures around the entire area, this year's conference promises to be the "Main Attraction" as you visit the Sunshine State

and the city of Orlando!

While AMATYC will be the "Main Attraction," you will be surrounded by such amazing area attractions as the entire Walt Disney World resort with its four theme parks, two water parks, and countless opportunities for shopping, dining, golfing, and so much more. Just up the road is the Universal Studios resort (a must for Harry Potter fans), Sea World and Discovery Cove, and a multitude of attractions, shops, and restaurants. Take an hour's drive east to Cape Canaveral and the Kennedy Space Center with beautiful Cocoa Beach, while to the northeast you can find the famous Daytona Beach and New Smyrna Beach!



© Disney

Outdoor activities such as airboat rides, paddle boating, and kayaking can be found all over the Orlando area, and only an hour away to the southwest is



Kennedy Space Center (Courtesy of Pixabay)

Legoland as well as the world's largest collection of Frank Lloyd Wright architecture at Florida Southern College in Lakeland.

We look forward to seeing all of you soon in the City Beautiful, Orlando! For more information, visit the conference website at www.amatyc.org, or the conference microsite, www.mydisneygroup.com/amatyc2018.

COLLABORATION CORNER

by Jon Oaks, Midwest Vice President

NCSM, in its 50th year of leadership in mathematics, held its conference in April in Washington, D.C. Since its inception in 1968, NCSM has evolved into an organization of mathematics education leaders, both inside and outside of the classroom. This is reflected in their tagline: Leadership in Mathematics Education.

AMATYC collaborates with NCSM in many ways and offers several things that may be of interest to AMATYC members as well:

- NCSM offers Joint Position Papers and White papers on their website, which can be helpful to use with students and colleagues. Most recently, NCSM collaborated with TODOS in 2016 to make a joint position statement on, "Mathematics Education Through the Lens of Social Justice: Acknowledgment, Actions, and Accountability."
- NCSM publishes the NCSM Journal, two times a year. Not only does the journal serve as an additional resource of research, but AMATYC members are also encouraged to submit articles for publication in the journal.
- NCSM offers many leadership seminars, equity webinars, and leadership academies each year. The topic of this summer's Leadership Academy is Coaching in Mathematics. In addition, NCSM offers those who decide to become members PowerPoint presentations and lessons that can be used with students, colleagues, and department leadership.
- NCSM has affiliate organizations and AMATYC members already collaborate with NCSM members. This is a great avenue for AMATYC members to see what else they might be able to learn that can be used in the pursuit of success for every student, every teacher, and every leader.

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PATHWAYS REDESIGN: A "JOYFUL CONSPIRACY"

Jim Ham

Delta College • University Center, MI

Several years ago, in the days before mandatory placement, members of my mathematics department were charged with assessing proposed placement score cutoffs. One of the findings of this work was the realization that some proposed cutoff scores would dramatically under place students. In one scenario, students who were successful in calculus would have been placed into Intermediate Algebra, four courses below their ability level. Current curricular reform in the first two years of college may partly address the issue of under placement.

Mathematics curricula reform in the first two years of college is occurring at a rate perhaps never seen before. A significant part of this reform involves redesigning the mathematical pathways. A recent Conference Board of the Mathematical Sciences (CBMS) survey defined pathways as "a redesign of a mathematics sequence that provides students with an alternative course or sequence to/through developmental mathematics and to/through a college-level mathematics or statistics course." According to the 2015 CBMS survey, well over half of two-year college departments implemented a pathways course sequence over the period from 2010 to 2015 [1].

These new pathways may have contributed to the dramatic decrease (over a 30% decrease) in developmental mathematics students over the same period [1].

These rapid changes are spurred by reports citing unnecessarily high placement rates into developmental mathematics courses, high attrition rates in developmental mathematics course sequences, low completion rates in gateway mathematics courses, and low graduation rates [2].

In response to these reports, state-wide systems and state legislatures have mandated curricular changes. In 2013 Florida passed a law that eliminates mandatory initial placement for recent high school graduates [3]. In 2012 Connecticut passed a law that caps the number of developmental mathematics courses students may take to a single course [4]. In 2015 the Tennessee Board of Regents mandated replacing developmental mathematics courses with a corequisite model where developmental students are placed into a college-level course that contains corequisite support [5]. In 2013 the Ivy Tech community college system in Indiana adopted an accelerated pathways model for all students [6]. Other states or state college-wide systems in North Carolina [7], Texas [8], and others are making or considering significant changes in the college mathematical pathways.

Advocates for adopting similar pathways initiatives suggest that a shorter developmental mathematics course sequence would lead to lower attrition rates. They cite studies that show accelerated models lead to higher gateway mathematics course success and higher graduation rates. They advocate for curricula better aligned to a student's program of study [9].

Concerns have been raised, however, about these mandates and the pace of redesign. Critics cite the lack (in number) of research studies supporting the state mandates, the lack of consultation with those most familiar with or most directly impacted by the mandates, the lack of professional development resources available to successfully implement a redesign model, and the potential detrimental consequences on students who may not be successful in an accelerated course sequence. Some claim that the

improved success rates in some of the recent studies may be due to the under placement of college-ready students, and not the ineffectiveness of the developmental math programs. These concerns must be taken into account before redesigning a curriculum.

Developing and implementing the redesign model that will be best for a college involves a complex set of decisions. For example, departments must decide how or if to use single or multiple measures for initial placement. Decisions must be made about prerequisites and the content of the developmental prerequisite course. Finally, the instructional and delivery strategies that will ensure achievement of student learning outcomes must be selected. Assessing the effectiveness of the model can take several years.

To simplify the redesign process, some state and college-wide systems begin by using one of the well-established models such as The Dana Center's Mathematics Pathways (DCMP), the Carnegie/WestEd Math Pathways (Statway and Quantway), or AMATYC's New Life model. In some cases these designs can be applied with little adjustment. In others, significant modifications must be made or new models created. For example, the content or outcomes of one redesigned course may not match the content or outcomes of an existing course sequence, causing problems with articulation. As such, new models continue to be created or adapted.

Here are some of the ways AMATYC is providing support to its members in the area of pathways initiatives.

- The **44th Annual AMATYC Conference** will have numerous sessions devoted to pathways redesign, including a themed session.
- AMATYC's regional and state **affiliate conferences** have sessions devoted to pathways redesign. See the Affiliate Conferences link on the AMATYC website for details.
- The newly created **AMATYC Pathways Joint Subcommittee** gives members a forum to learn and share redesign models and issues involved in initial placement, prerequisites, and pathways redesign. Join this group by updating your profile on the AMATYC website.
- The **3rd Mathematics Summit** preceding the AMATYC Conference in November will occur during the two days before the annual conference in Orlando where the focus will be on implementing,

➤ *Continued on page 7*

MEET AMATYC'S NEW EXECUTIVE DIRECTOR



Anne Dudley is excited to take on the challenges of being AMATYC Executive Director and to work with the Executive Board, the staff, and the members of AMATYC to move the organization forward. She is a longtime AMATYC member, attending every conference since Baltimore in 1989. Anne Dudley's involvement in AMATYC includes presenting many talks over the years, serving on several committees, chairing the Department and Division Issues Committee, and acting as Local Arrangements Chair when the national conference was in Phoenix in 2002. Anne is active in ArizMATYC, having served as president, treasurer and

is now co-webmaster. She also served as Conference Chair for the 2nd Southwest Regional meeting held in Flagstaff in 1998.

Anne taught mathematics at Glendale CC in Arizona for 30 years, where she encouraged many of her colleagues to attend and become active in AMATYC. She credits the community colleges and Phoenix College (AA '84), in particular, for helping her find her career path. Anne's teaching skills were recognized by AMATYC (Teaching Excellence Award 2007), the MAA (Southwestern Section Distinguished Teaching Award 1997) and her college (GCC Teaching Excellence 2008). Anne served the GCC Mathematics Department as Assistant Chair and Chair before retiring in November 2015. She is now Faculty Emeritus.

➤ *Continued on page 8*

AMATYC FOUNDATION AWARDS GRANT



Katina Gothard

The AMATYC Foundation recently awarded a \$3,000 grant to support Katina Gothard and Megan Mocko's current research study: *How POGIL-inspired Activities Affect Instruction and Performance in an Introductory Statistics Course*.

The purpose of the study is to determine the effectiveness of four POGIL (Process-Oriented Guided Inquiry Learning)-style classroom activities that they designed to meet the recommendations of the 2016 GAISE report for undergraduate introductory statistics courses. The activities focus on terms and concepts identified in recent statistics education research as difficult for students. Topics addressed include: randomness, center, shape, variability, sampling distributions, standard error, margin of error, and confidence intervals. They are currently implementing the activities at their home institutions and hope to secure volunteers to implement the activities across ten of the state colleges in Florida during fall 2018.

For more information about this grant, contact Katina at Eastern Florida State College (gothardk@easternflorida.edu) or Megan at University of Florida (mmeece@state.ufl.edu).

More information about AMATYC grant opportunities can be found at www.amatyc.org/Grants or contact Foundation Chair Jane Tanner at tannerj@sunyocc.edu.



Megan Mocko

In Memory of



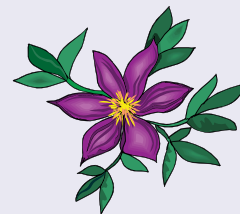
JEAN WOODY

It is with sadness that AMATYC announces the passing of Jean Woody on Friday, December 22, 2017. Jean grew up in Fort Smith, AR. She earned her Bachelor and Master's Degrees at the University of Arkansas, Fayetteville. Jean married Dennis Woody, also of Fort Smith, on June 20, 1981 and the couple relocated to Tulsa OK, in 1982. Jean taught at Darby Jr. High School in Fort Smith and in Tulsa Union Public School System before accepting a position as an Associate Professor of Mathematics at Tulsa CC where she worked for twenty-seven years. Jean loved teaching and was involved in numerous committees at the college.

Jean served as editor of the *AMATYC News* from January 1998 to January 2008 and as the Vice President of the Southwest Region of AMATYC from 2007 to 2011. During this time, she tirelessly represented the Southwest Region.

Other of interests of Jean were gardening and arts and crafts such as quilting and knitting. Jean loved animals of all types. The mathematics community will miss her service.

Excerpts from Jean's obituary at www.leonardmarkerfuneral.com/obituaries/Jean-Woody-3/#!/Obituary were used to write this article.



AMATYC'S NEW TRAVELING WORKSHOP COORDINATOR - MARI MENARD



Mari is a Professor of Mathematics at Lone Star College (LSC) - Kingwood and is in her 18th year of teaching with the past 15 years at Kingwood. She enjoys teaching Intermediate and College Algebra as well as Business Mathematics and Business Calculus. She is the current supervisor of the

LSC-Kingwood Math Lab, Math Lab Faculty Liaison, where she supervises Math Lab tutors, plans the schedule for each semester and other duties as determined by semester. She lives in Kingwood, TX, with her husband, Ward, and she enjoys a "good" game of golf as well as gardening. She is very excited to work with the AMATYC Professional Development team and would like to thank them for this opportunity.

REGISTER EARLY FOR ORLANDO!

Are you looking forward to the next AMATYC Conference? The early signs indicate the conference will have a very large attendance! Will you be there? Make plans now to attend the AMATYC Conference at *Disney's Coronado Springs Resort* on Disney property in Lake Buena Vista, FL. If you or your college have professional development funds in your current budget that can be used for your registration fee, there is an offer available for you.

To pay the registration fees from your current budget, please email Beverly Vance at amatyc@amatyc.org and put "Conference Registration Now" in the subject line. Beverly will send you the necessary information so that conference registration can be paid NOW! The miniprogram that will be received in August will include many details of the conference. Until then, information will continue to be added online at the conference website, on AMATYC's Facebook page, and the conference microsite.

Again, it appears AMATYC will sell out its room block at the conference. You can reduce your costs, and stay at the conference hotel, by sharing your hotel room for the AMATYC Conference. Ask a colleague to be your roommate or send an email to Sarah Miller, AMATYC's Roommate Network Director, at smiller10@ccbcmd.edu and ask her to help pair you with another conference attendee to share a room. The email should include your name, gender, email address, telephone number, room type, arrival and departure dates. While AMATYC does not guarantee a roommate pairing, this process has been successful in the past.

AMATYC MEMBERSHIP DUES TO INCREASE

by David Tannor, AMATYC Treasurer

AMATYC dues are scheduled to undergo a small increase on July 1, 2018. The current rates are as follows:

- Regular (Individual) membership:
 - 1 year \$88
 - 2 years \$171
 - 3 years \$249
- Adjunct membership per year: \$44
- Retired membership per year: \$44
- Student membership per year: \$10
- Lifetime membership: \$1,760
- Institutional membership per year: \$508
- Library Subscriptions: \$88

The new rates effective July 1, 2018, are as follows:

- Regular (Individual) membership:
 - 1 year \$90
 - 2 years \$175
 - 3 years \$255
- Adjunct membership per year: \$45
- Retired membership per year: \$45
- Student membership per year: \$10
- Lifetime membership: \$1,800 (installment payment option available)
- Institutional membership: \$510
- Library Subscriptions: \$90

Don't miss out on the great AMATYC benefits. Renew or join today. Until the increase, you can extend your membership over as many years as you wish at the current rate. New memberships or renewals at the current rate must be postmarked or paid online by June 30, 2018. This is also an excellent time to consider becoming an AMATYC lifetime member: you will never have to worry about dues increases again! For more information on the description of each membership category please visit www.amatyc.org/MembershipTypes.

THE COMPETITION HAS BEGUN!

by Karen Gaines, Student Research League Coordinator

The first Student Research League competition is underway. The student competitors spent about eight



days working on their solutions and have submitted them. Evaluators will be reading the entries over the summer months, and the winners will be announced at the fall conference in Orlando.

The top three entries from each AMATYC region will be recognized and will receive official AMATYC SRL t-shirts. The institutions of the top teams will receive plaques. The top three entries from each region will then be evaluated to determine the Grand Prize winning team and the second and third place teams.

If you missed out this year, mark your calendars, and consider forming a team for the competition next year: April 6-14, 2019. You can also be involved by becoming a Student Research League evaluator for your region. Check out the SRL webpages (www.amatyc.org/StudentResLeague) for more details, or contact Karen Gaines, SRL Coordinator, with any questions (srl@amatyc.org).

CONFERENCE COMMITTEE POSITION AVAILABLE

Have you enjoyed past AMATYC annual conferences? Wonderful conferences such as the one in San Diego don't just happen by accident. Annual conferences are the result of the work of a group of AMATYC members who want to continue to provide quality professional development for all. AMATYC is now looking for you to get involved and help continue to make the conferences the best ever! AMATYC's Conference Committee has an opening for the position of Assistant Conference Coordinator. Look at the job description below and apply now! Join the Conference Committee and help plan future conferences for your colleagues!

AMATYC Assistant Conference Coordinator

The Assistant Conference Coordinator will work closely with the Conference Coordinator on many aspects of the annual conference. The three-year term will begin on January 1, 2019 and end on December 31, 2021. It is renewable for up to two additional terms. Some of the general duties of the AMATYC Assistant Conference Coordinator include the following:

- Meet once in the spring with the Program Coordinator and the Presider Chair to lay out the annual conference program.
- Assist in the preparation and proofreading of print and electronic conference materials including, but not limited to, the miniprogram and conference program.
- Review the conference agenda and staging guide and provide feedback to the Conference Coordinator.
- Assist the Conference Coordinator with onsite activities during the national conference.
- Participate in the meetings at the national conference of the conference planning team and the conference planning meeting for future conferences
- Submit a biannual report detailing activities to the AMATYC Executive Board.
- Organize the Poster Session at the AMATYC national conference.

➤ For more information visit www.amatyc.org ◀

This position promises to be a worthwhile and challenging opportunity! It will allow for significant professional and personal growth. Applicants should email a letter of interest, a current resume, and a letter of support from their immediate supervisor to Nancy Rivers, AMATYC Southeast Vice President and Search Committee Chair, at njriv-rivers@waketech.edu. Please contact Nancy with any questions regarding this position. **The application deadline is May 31, 2018.**

EYE ON ORLANDO FOR A GRAND PROGRAM

by Judy Williams, Program Coordinator

Is it possible that the wheel in the logo for our 2018 Conference is based on the Orlando Eye, at 400 feet the tallest observation wheel on the East Coast? While the ride may be fun, there is no need to climb that high to see some amazing things in Orlando, FL, November 15 - 18. Just come to the 44th Annual AMATYC Conference!

By popular demand, the Chat & Chew Session will be back, this year at 8:00 am Friday, with more facilitators, more space between the tables, and more pastries to enjoy with the beverage you bring along. Topics for the 15-minute discussions will range from student success and engagement to the latest ideas for corequisite courses and STEM pathways. You can even share what you would do if you planned the conference. Remember that you will have the opportunity to move to three different tables for a variety of topics.

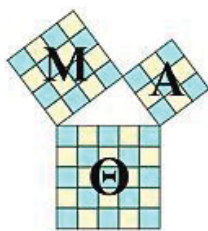
Themed Sessions organized by the AMATYC academic committees are always popular. This year will bring five at the same time with Developmental Mathematics, Math and Its Applications for Careers, Math Intensive, Placement and Assessment, and Statistics going head to head on Thursday from 8:00 am to 10:00 am. Excitement will be in the air. Every 15 minutes you can move to a new room for variety or stay on one focus all morning. A plus for this event is that those who are still picking up registration materials Thursday morning can slip into one of these rooms without worrying they are interrupting a 50-minute session.

The newest committee, Mathematical Standards in the First Two Years of College, has organized a symposium, with keynote address "What is *IMPACT*?" on Friday, immediately followed by a workshop "Energizing Students to Transform Themselves Through *IMPACT*." Saturday morning will bring the Symposium's second two-hour presentation "Make an *IMPACT* with Research-Based Strategies to Improve Student Learning." Then the Innovative Teaching and Learning Committee will collaborate with *IMPACT Live!* to introduce AMATYC's new interactive portal. To learn more about *IMPACT Live!*, see the article, "FAQ About *IMPACT Live!*," on page 10.

Also expect sessions dedicated to inclusion and social justice, corequisite courses for STEM and non-STEM students, news from the world of quantitative reasoning, and the latest technologies for in and out of the classroom.

Don't miss this sensational view of the world of mathematics taking place at *Disney's Coronado Springs* as we enjoy The Main Attraction.

MU ALPHA THETA



There are currently 65 two-year colleges benefitting from membership in Mu Alpha Theta, the National High School and Two-Year College Mathematics Honor Society. Two-year colleges deserve more representation in this honor society, so the Mu Alpha Theta Governing Council recently updated the two-year college charter application to simplify the application process. Benefits of Mu Alpha Theta membership include recognition for your talented math students, scholarships, grants, awards, free competitions, and an annual national convention.

If your AMATYC region or state affiliate is hosting a conference, please allow Mu Alpha Theta to provide informational flyers and small giveaways for attendees. Simply email your conference date and address to info@mualpha-theta.org with the subject line "AMATYC Conference" at least two weeks prior to your conference.

BEYOND THE CONFERENCE!

by Keven Dockter, AMATYC Conference Coordinator



© Disney

With the 2018 AMATYC conference at *Walt Disney World*®, there are many opportunities for attendees outside of sessions. *Walt Disney World*® Resort offers something for everyone. Consider arriving a day early or spend a couple days after the conference playing on championship golf courses, relaxing at luxurious spas, or creating magical theme park memories with family and friends. Take advantage of extended room rates (subject to availability) and specially priced theme park tickets to make the most of your visit. Purchase Special Meeting/Convention Theme Park tickets on the conference microsite, www.mydisneygroup.com/amatyc2018. Once you have made your reservations at the *Coronado Springs* Resort (same website) you will be able to link your park tickets to your room reservation using the *My Disney Experience*® website or app and book your Fastpass® 60 days before your arrival. With your resort reservation you can also make dining reservations at those distinctive resort or park restaurants 180 days prior to your arrival date.

As a guest of a Disney Resort you will have access to a wide array of transportation. The *Disney Magical Express*® (DME) will pick you up at the airport and take you to the resort. (Stay tuned for an article of the DME in a future newsletter.) Take advantage of complimentary bus service to and from all four theme parks, two water parks, Disney Resort hotels, and the *Disney Springs*® Area or ride the monorail or ferry boats! During the conference itself, after a day of great sessions, remember to unwind with a little Disney magic!



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WE WANT YOU TO BE IN PROJECT ACCESS!

by Christy Hediger, Project ACCESS Coordinator



Project ACCESS is getting ready for another round of applications to be reviewed. Mathematics faculty for whom the 2018-2019 academic year will be their first, second, or third year of their first full-time renewable position are eligible to apply. If this is you or someone you know, consider applying! Approximately 30 Fellows will be selected for Cohort 15. **Application deadline is May 15, 2018.** Check out the Project ACCESS website for more information: www.amatyc.org/ACCESS.

Conference planning for the AMATYC Conference in Orlando is actively underway for both Cohort 14 (2017-2018) and Cohort 15 (2018-2019). Many sessions geared towards engaging the cohorts are being organized. Cohort 14 will follow the tradition of participating in the Poster Session to present projects they have implemented in their classrooms.

Anyone interested in mentoring the newly selected Fellows should email Maureen Maikner, Project ACCESS Assistant, at mmaikner@lccc.edu.

If you have any questions or need more information about Project ACCESS, please reach out to anyone on the Project ACCESS Team!

POSTER SESSION IN ORLANDO

by Honey Kirk, Assistant Conference Coordinator

The popular AMATYC Poster Session will be held on Friday afternoon, November 16, 2018 at the 44th Annual Conference. This is the perfect opportunity to share your innovative and practical ideas with colleagues.

What do I share? Have you tried something new in your classroom? Are you working on a grant project? Have you conducted exciting research? Think about what energizes you and offer to share it with others through a poster.

Who can submit a proposal? Everyone is encouraged to submit a proposal. Project ACCESS Fellows displaying the results of their required project will be given preference as will those who are not already presenting a session or workshop.

How do I submit a proposal? Look for an email announcement in mid-March with directions for online submissions on the AMATYC website. The site will be open until May 1st.

When will I know if my proposal is accepted? You will receive an email in early June.

What do I need to do in Orlando? Posters will be on display beginning Friday morning, with presenters available for discussions from 2:00 pm - 4:00 pm. When you check in at the conference, AMATYC will provide you a tri-fold poster board and mounting supplies. On Friday morning you will be assigned a space for set-up and then you will return for the 2:00 pm - 4:00 pm time period. You are welcome to bring handouts to share with colleagues.

What are my rewards? Sharing your ideas with colleagues is priceless. Additionally, each poster presenter is recognized with a ribbon for his or her name badge.

➤ **President's Message, Cont'd from page 2**

improving, and assessing redesigns. See the article below for more details.

Uri Treisman, Director of the Charles A. Dana Center and recent AMATYC Mathematics Excellence Award recipient, refers to our collective redesign work as a “joyful conspiracy.” This conspiracy is about student success – success in the gateway college mathematics course and successful degree completion. Pathways redesign has potential to help many college students in achieving a degree.

Let's all join the conspiracy. Share your redesign model, the syllabi of the courses in your redesign model, your initial placement processes, your prerequisites, and most importantly, the assessment data on all aspects of your redesign model. Together, we can develop curricula that will help students who can benefit by an accelerated pathway, and at the same time, help identify those students who may not benefit from an accelerated pathways approach.

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THIRD NATIONAL MATHEMATICS SUMMIT

by Nancy Sattler

AMATYC and NADE invite you to attend the Third National Mathematics Summit: For Math in the First Two Years, to be held November 13-14, 2018, in Orlando, FL. National experts from the Carnegie Math Pathways, the Dana Center, the Mathematics Association of America, the National Center for Developmental Education (NCDE), Paul Nolting, National Association for Developmental Education (NADE), and the American Mathematical Association of Two-Year Colleges (AMATYC) will offer workshops that focus on implementing, improving, and assessing redesigns. The participants will be provided with a unique opportunity to dialogue, discuss, engage, learn and ask questions of national leaders in the field of mathematics and developmental education.

STUDENT MATHEMATICS LEAGUE

by Susan R. Strickland for Steven Hundert

At the time of this writing, Round 2 of the 2017-2018 Student Mathematics League competition is underway. 158 schools participated in Round 1 and the results are as follows:

Top 5 Teams

- | | |
|----------------------------------|--------------|
| 1. West Valley College (CA) | 183 points |
| 2. East Los Angeles College (CA) | 153.5 points |
| 3. Los Angeles City College (CA) | 150 points |
| 4. Schoolcraft College (MI) | 145 points |
| 5. Brookdale CC (NJ) | 140 points |

Top Schools by Region

1. Northeast - Monroe CC (NY)
2. Mid-Atlantic - Brookdale CC (NJ)
3. Southeast - Durham Technical CC (NC)
4. Midwest - Schoolcraft College (MI)
5. Central - Normandale CC (MN)
6. Southwest - Austin CC (TX)
7. Northwest - Bellevue College (WA)
8. West - West Valley College (CA)

Top Individual Rankings

- | | | |
|------------------|-------------------------------|-------------|
| 1. Edward Jin | Los Angeles City College (CA) | 40 points |
| Ajay Arora | Schoolcraft College (MI) | 40 points |
| Shuai Xue | College of San Mateo (CA) | 40 points |
| 4. Tiffany Huang | West Valley College (CA) | 38 points |
| 5. Woo Chan Han | Los Angeles City College (CA) | 37.5 points |
| Gilbert Feng | West Valley College (CA) | 37.5 points |
| Austin Lei | West Valley College (CA) | 37.5 points |
| Aneesh Cherukuri | Schoolcraft College (MI) | 37.5 points |
| Freya Edholm | College of San Mateo (CA) | 37.5 points |
| Eva Quittman | Montgomery College (MD) | 37.5 points |
| Arihant Jain | Brookdale CC (NJ) | 37.5 points |
| David Cheng | Bellevue College (WA) | 37.5 points |

After Round 1, it is a tight race. Round 2 should be very exciting!

If your school is not yet participating in the SML competition, consider starting next year. Whether your students score a 40 or a 3, it is good for them to participate and have a little fun outside of class.



➤ **Collaboration Corner, Cont'd from page 1**

- NCSM and AMATYC have a Presidential Exchange through which each organization's president speaks at the other's conference.

For more information on NCSM, please visit their website at www.mathedleadership.org. Ultimately, it is important for AMATYC and NCSM to continue to collaborate to advance the mission, vision, and goals of each organization.

TEACHING EXCELLENCE AWARD

by Kathryn Kozak, President-Elect

Every two years, AMATYC honors excellent teachers who teach mathematics in the first two years of college. The eligibility requirement no longer requires that nominees teach at two-year colleges. Other eligibility requirements remain the same. The nominee must be an AMATYC member who has taught at least one mathematics, statistics, or mathematics education course since spring 2018 and must have taught for a minimum of 5 years.

Nominees will be evaluated using well-defined criteria.

- Instructional effectiveness and support of students is an important indicator of teaching excellence; this criterion is weighted most heavily by the reviewers.
- Excellent teachers continuously look to improve their teaching, so a history of regular, ongoing professional development is important to establish in the nomination.
- Highly qualified teachers interact well or collaborate with their colleagues. Team teaching, giving joint presentations at conferences, or mentoring newer fulltime or part time faculty are some of the ways to establish the collegiality criteria.
- Lastly, service to the college is an important criterion. Working on curriculum or other departmental committees, participating in college governance, or introducing a college innovation are ways to establish the service criteria.

The number of awards presented will be determined according to the total number of nominations received and the strength of the applicant pool. There can be anywhere from 0 to 8 awards. The desire of the committee is to award the maximum of 8 awards. To do this, there needs to be at least 23 nominations.

I'll bet your colleagues would consider you an excellent teacher. You certainly know an excellent teacher. Consider nominating yourself or colleague for this prestigious award.

The names of the AMATYC Teaching Excellence awardees will be announced at the 2019 AMATYC Annual Conference in Milwaukee. More information is available at www.amatyc.org/TeachExAward. **Nominations are due by December 7, 2018.**

STAFF CHANGES AT THE MATHAMATYC EDUCATOR

by George Alexander, *MathAMATYC Educator* Asst. Editor

The *MathAMATYC Educator* is pleased to announce staffing changes that went into effect in January 2018. The shift in responsibilities comes after the executive board of AMATYC approved the creation of the position of assistant editor in summer 2017, and the appointments were approved at the Fall Board Meeting. The goal is to help journal staff handle the large volume of work that goes into reviewing, editing, and producing AMATYC's primary publication.

George Alexander (Madison Area Technical College) continues on the journal staff with a slightly revised role as the new assistant editor. In this capacity, he will focus on the peer-review process for submitted manuscripts. New articles require an initial reading, some clean up to prepare the manuscript for blind reviews, and assignment to the talented and dedicated team of reviewers. The assistant editor will send out manuscripts, receive comments and recommendations back from the reviewers, and then collate remarks and forward recommendations to the editor. Alexander started with the *MathAMATYC Educator* as production manager in 2011 and moved to editing in 2016.

Johanna Debrecht (Northern Virginia CC) has served as the production manager since 2016, but also volunteered some proofreading work previously. She is now transitioning into the editor position. The editor will be responsible primarily for communications with the authors, including ultimate decisions to accept articles for publication or requesting revisions. The editor will continue to work with authors to prepare manuscripts for publication, and further check for grammar, spelling, punctuation, style formats, and proper reference citations. Note that AMATYC encourages and supports authors in all steps of this process; the common goal is to give readers a resource full of new ideas, best practices, and research results relating to all aspects of freshman/sophomore-level mathematics education.

Tony Piccolino (Palm Beach State College) is a welcome addition to the team as the incoming production manager. Once each article is approved for publication, there is still more work to complete. The production manager works to collect all supporting pieces (images, tables, author biographies, abstracts, etc.), and manages document handling in preparation for the layout work and for proofreading efforts between layout and final printing. The production manager coordinates with the editors, office staff at AMATYC, the layout artist, and the printing company.

The final work in production is the actual page layout, which is performed so beautifully by Annalise Haynes, who took on work as layout artist for the *MathAMATYC Educator* in 2011. She is responsible for taking the raw documents and putting it all together in the publishable format for the final printed journal. Haynes has a unique combination of degrees in both computer science and graphic design. The layout artist is the only paid position on the journal staff.

The *MathAMATYC Educator* is a peer-reviewed publication of AMATYC, produced three times each academic year (September, February, and May). Its purpose is to provide a forum for communicating ideas, viewpoints, research, and experiences related to teaching and learning mathematics in the first two years of college. Additional information for educators and potential authors can be found on the AMATYC website at www.amatyc.org/EducatorGuidelines.



➤ *Executive Director, Cont'd from page 3*

Anne enjoys traveling with her husband, David (an active AMATYC member). They can be found in the summer in the cool pines of northern Arizona where they are volunteer firefighters. Anne is an avid gamer and especially loves playing bridge and mahjong.

STATPREP GRANT UPDATE

by Kathryn Kozak, President-Elect

The StatPREP (National Science Foundation grant DUE-1626337) Project is a multi-year effort to bring data centric material and a modern statistical-thinking approach to entry-level statistics courses. The program began in summer 2017, and will be offering regional workshops around the U. S. through summer 2020. Faculty members near workshop sites are encouraged to consider applying (see schedule below). If you are not able to attend any of the workshops, but are interested in bringing data centric methods to your classes, lessons have been created to use in your classes. Visit <http://statprep.org> to access these lessons.

Lessons posted include:

1. introducing the normal curve
2. review of graphical and descriptive statistics
3. overview of hypothesis testing and confidence intervals
4. contingency tables in probability.

The lessons, accessible at <http://statprep.org>, can be found on the home page under "Classroom Lessons." An overview of each lesson follows.

What is Normal:

Every student of statistics must encounter the normal distribution in their studies. https://dtkaplan.shinyapps.io/Whats_normal/. This lesson can be used to introduce and investigate the normal distribution. It also introduces the concept of the Empirical Rule and reinforces the idea of usual and unusual events. This lesson could replace or supplement a more traditional lesson on the normal distribution.

An Experiment with Paper Planes:

The lesson called An Experiment with Paper Planes at https://dtkaplan.shinyapps.io/Paper_planes/#section-aviation-improvement can be used to reinforce descriptive statistics and dot plots. This would be good to do as a review before a test over graphical descriptions and numerical descriptions of data.

Reaction times and traffic signs:

The lesson called Reaction times and traffic signs at https://dtkaplan.shinyapps.io/Traffic_signs/#section-background can be used to have your students look at two sample confidence intervals, hypothesis test errors, and make conclusions in two sample analysis. Use this to introduce the concepts of two sample inference.

Proportion and Medical Screening:

The lesson called Proportion and Medical Screening at <https://dtkaplan.shinyapps.io/Diabetes/#section-background> can be used when discussing contingency tables in probability. If you have students read the first three topics prior to class (through "The Data"), this lesson could be completed in part of a class.

This summer's StatPREP workshops will be held:

- June 1-2 at University of Hartford in Hartford, CT
- June 8-9 at St Kate's in Minneapolis/St Paul, MN
- June 15-16 at Highline College in Seattle, WA
- June 22-23 at College of the Canyons in Los Angeles, CA

Future workshops are being planned for the Dallas/Fort Worth area and the Washington, DC, area in the summer of 2019. In the summer of 2020, workshops will take place in Fort Myers, FL, and the New York City area.

PROFESSIONAL DEVELOPMENT UPDATE

by Julie Gunkelman,
Professional Development Coordinator &
Mari Menard, Traveling Workshop Coordinator

Whether you are able or unable to attend the AMATYC Annual Conference this year, remember that AMATYC offers a variety of professional development beyond the conference. From webinars to Traveling Workshops, there are so many options. In fact, on February 15, AMATYC's Professional Development Committee hosted a webinar on all of these options. The recording of this and other webinars can be found at www.amatyc.org/Webinars.

Currently, the Professional Development committee is looking to expand Traveling Workshop strands and are recruiting new facilitators to fill the growing demand for workshops on new and emerging topics, such as corequisite models.

If you have any questions about any of AMATYC's Professional Development options, please contact Julie Gunkelman at amatycpdc@amatyc.org or Mari Menard at tw@amatyc.org.

HIGHLIGHTS OF THE 2018 JANUARY AMATYC BOARD MEETING

by Behnaz Rouhani, AMATYC Board Secretary

A strategic planning and orientation meeting is held at the beginning of the term of each new AMATYC board. The most recent meeting was held January 6-7, 2018, in Memphis. In addition to the time spent familiarizing board members and committee chairs with AMATYC processes and policies, a board meeting was held during the weekend. Highlights and actions taken by the board include:

- Approval of an Ignite! event sponsored by the Innovative Teaching and Learning committee on Friday evening of the AMATYC Annual Conference in Orlando.
- Approval of a new committee to explore the possible creation of a new academic committee dealing with issues related to equity in mathematics education.
- Approval of the following appointments:
 - o Ann Sitomer, Member Institutional Research Board, through December 31, 2019
 - o Barbara Leitherer, Member, Organizational Assessment Committee, through December 31, 2019
 - o Chris Yuen, Member, Organizational Assessment Committee, through December 31, 2019
 - o Mari Menard, AMATYC Traveling Workshop Coordinator, through December 31, 2020

Full minutes of the meeting may be found on the AMATYC website: www.amatyc.org/BoardMinutesMotions.

FAQ ABOUT *IMPACT Live!*

by Julie Phelps and Evan Evans

The following was crafted so that AMATYC members can answer questions regarding *IMPACT Live!* It is anticipated that these conversations will take place when members have short periods of time to describe the vast scope of *IMPACT Live!*

Q: What is *IMPACT Live!*?

A: It is the interactive online social multimedia portal to support AMATYC *IMPACT*.

Q: What is it for?

A: *IMPACT Live!* will have blogs, communities, news, lesson plans, worksheets, projects, and videos relevant to our members as well as how these sources link back to AMATYC *IMPACT*.

Q: Why would I use *IMPACT Live!*?

A: *IMPACT Live!* provides daily multiple contact and meaningful interaction opportunities with other members and is designed to facilitate our work responsibilities.

Q: I heard *IMPACT Live!* is the online version of AMATYC *IMPACT*. Is that true?

A: *IMPACT Live!* will have the AMATYC *IMPACT* document available through an interactive online presence, but will be much more and serve as a place for social interactions between mathematics instructors and a repository/resource for material relevant to our members.

Q: AMATYC already has an online presence in the form of a website. Why do we need another?

A: *IMPACT Live!* is a portal that will provide opportunities for both synchronous and asynchronous interaction between members as well as a go-to resource for lesson plans, worksheets, and projects on various mathematical topics.

Q: So what is this portal like?

A: It can be best described as a mathematical mesh of Facebook, YouTube, Khan Academy, and Google+.

Q: Has AMATYC changed its web address?

A: NO. *IMPACT Live!* serves as the interactive section of the AMATYC website.

Q: Can I visit *IMPACT Live!*?

A: Not yet – we expect to launch the online portal in November at the 2018 Annual Conference in Orlando.

Q: How can I make comments on what I want on *IMPACT Live!*?

A: Go to <http://amatyc.org/impactlive> and follow the links to the comment box.

GRANTS UPDATE

by Dennis Ebersole, Grants Coordinator

An AMATYC team continues to work on the writing of an NSF grant to help AMATYC implement the goals of the *IMPACT* project and disseminate our work in this area to a wider audience. The grant proposal will be submitted in December. If you have an idea for a project that will be beneficial to AMATYC and its members, the Grants Coordinator is always available to assist AMATYC members to develop proposals, find potential funders, and find collaborators.

Grant Writing Tip #6: The organization (National Science Foundation, a private foundation, etc.) that is requesting proposals for a particular grant program wants to receive quality proposals that address the problem they want to learn more about and eventually solve. They welcome talking to you if it will improve your proposal. Feel free to call, email, or write the contact person for the grant program to ask for suggestions for improving your proposal. For Grant Writing Tips 1 through 5, refer to previous issues of the *AMATYC News*.

FUTURE AMATYC CONFERENCES

2018	Orlando, FL November 15-18
2019	Milwaukee, WI November 14-17
2020	Spokane, WA November 12-15
2021	Phoenix, AZ October 28-31
2022	Toronto, Canada November 17-20

For additional information, contact the
AMATYC Office at
amatyc@amatyc.org or 901.333.5643.



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 all materials by November 25, February 25, June 1, and August 15 for the respective issues.

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MATHEMATICS STANDARDS COMMITTEE

by Julie Phelps, Chair; Evan Evans;
Nancy Sattler; and Mary Beth Orrange

The Mathematics Standards Committee is extremely proud to announce that 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.

AMATYC wants you to make a positive IMPACT on your students and on those around you in your professional life. The pillars of teaching effectiveness consist of student engagement, cultivating critical thinking, stimulating interest, and motivation. Engaging with students in and out of the classroom everyday while working to build relationships with them allows for a better and more productive learning environment. Building these relationships and creating this type of environment provides the opportunity to share experiences and stimulate their interest in mathematics and the ability to motivate them to be the best they can be. For example, you can pick one student each day who you would not ordinarily talk to and chat with them about something relevant to them. Go out of your way to begin a relationship with one student at a time. This ripple effect is one way to make an impact on students.

To continue making an impact, read the document, apply it to your own role in mathematics education, and join AMATYC's Standards Committee. To join this committee go to www.amatyc.org and sign-in, click on the "Groups" tab, and then select "AMATYC Committees" followed by "Mathematics Standards (*IMPACT*)". By joining the committee you can choose to be part of creating digital products for *IMPACT Live!*, the online component of *IMPACT*, and promoting AMATYC's standards. For more information contact committee chair Julie Phelps at jphelps@valenciacollege.edu or the standards digital coordinator for Mathematics Standards, Evan Evans, at eevans@frederick.edu

INNOVATIVE TEACHING AND LEARNING COMMITTEE

by Dan Petrak, Chair

The Innovative Teaching and Learning Committee (ITLC) fills many roles for AMATYC throughout the year. Beyond the annual conference and the Ignite event, all faculty are encouraged to interact in the ITLC Google Group. There are so many great people with ideas to share and the ITLC Google Group is a great resource for professional growth. For example, as a member of a continuous improvement team for online learning at Des Moines Area CC, investigation of the methods other institutions use to improve the consistency of online courses and how those efforts are administered was requested in the group. Many replies were quickly received from faculty throughout the United States, and it was found that this is a common issue for many institutions. Feel free to visit or post your own questions at the site, <https://groups.google.com/d/forum/amatyc-itlc>.

The ITLC has been charged with making major revision to the position statement on "The Use of Technology in the Teaching and Learning of Mathematics." This document is posted on the ITLC Google Group page and you are invited to view and comment on the document there. If you would like to be on the subcommittee working on these revisions, please reach out to Dan Petrak at dgpetrak@dmacc.edu. It is hoped that the committee will have a draft to discuss at the 2018 Annual Conference in Orlando.

AMATYC CALENDAR OF EVENTS

Check the AMATYC website, www.amatyc.org, for information on conferences and meetings from other organizations.

May 4-5, 2018: MinnMATYC/MCTM 2018 Spring Conference, Duluth Entertainment Convention Center, Duluth, MN. Contact: Mel Taylor, mel.taylor@ridgewater.edu. Website: www.minnmatyc.org

May 17-19, 2018: WAMATYC Meeting, Yakima Convention Center, Yakima, WA. Website: www.wamatyc.org

May 22, 2018: DelMATYC Conference, Delaware Tech and CC, Wilmington, DE. Contact: Megan Wagaman, mwagaman@dtcc.edu

May 23-25, 2018: OCMA Meeting, Fern Resort, Orillia, ON, Canada. Website: <http://theocma.org/2018.html>

May 31, 2018: MMATYC Conference, WorWic CC, Salisbury, MD. Contact: Mary Lou Townsend, mtownsend@worwic.edu

September 29, 2018: 25th Annual WisMATYC Conference, UW Washington County, West Bend, WI. Website: www.wis.matyc.org

October 5, 2018: ArizMATYC Meeting, GateWay CC, Phoenix, AZ. Website: <http://arizmatyc.org/>

October 5-6, 2018: NDMATYC Fall Conference, Chieftain Conference Center, Carrington, ND. Contact: Michael Kern, michael.kern@bismarckstate.edu

November 15-18, 2018: 44th Annual AMATYC Conference, Orlando, FL. Contact: AMATYC Office, amatyc@amatyc.org

April 25-27, 2019: ORMATYC Meeting, Inn at Spanish Head, Lincoln City, OR. Website: www.ormatyc.org

November 14-17, 2019: 45th Annual AMATYC Conference, Milwaukee, WI. Contact: AMATYC Office, amatyc@amatyc.org

A form is available at www.amatyc.org/AffiliateConferences to update or add affiliate conference information.

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FOCUS ON AFFILIATES: MMATYC

by Lisa Feinman, MMATYC President



The Maryland Mathematical Association of Two-Year Colleges (MMATYC) is one of the Mid-Atlantic affiliates and was

founded in 1974. As listed in MMATYC's bylaws, the purpose is to:

- Encourage an active interest in mathematics and its teaching and to work towards the improvement of mathematics education.
- Provide a medium of exchange of views and information about mathematics and the teaching of mathematics on the two-year college level.
- Provide a voice and means of influencing the mathematics curriculum in the two-year college.
- Enhance the prestige of the profession of mathematics teaching.

MMATYC holds two business meetings each year. The January business meeting is one of the highlighted events during Maryland's annual Association of Faculties for Advancement of Community College Teaching (AFACCT) conference each year. During this

meeting, officers are elected, AMATYC information is shared, award recipients are announced, and so forth. At the spring business meeting, held during the MMATYC Conference, AMATYC, MMATYC and other Mid-Atlantic Region Affiliates' accomplishments and projects are highlighted.

Under Past President Evan Evans, from Frederick CC, membership has increased and the annual spring conference was renewed. In 2017, the first two-day spring conference was held, and this year, to make it even better, a two-day conference will be held at Wor-Wic CC, in Salisbury, just minutes from Ocean City!

Additionally, MMATYC produces a newsletter twice a year, providing updates on AMATYC as well as local conference news, ideas for use in the classroom, and a feature called "Fun from the Files." The newsletter, as well as MMATYC conference information, links to other AMATYC Mid-Atlantic affiliate sites, links to other related statewide and national organization websites. Information on how to become involved with MMATYC, and other information about MMATYC are all located on MMATYC's website, www.mmatyc.org. Please check there for more information about the spring conference as it becomes available.

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