

TABLE OF CONTENTS

Jacksonville! Here we come!	1
President's Corner	2
AMATYC's Interim Executive Director	2
Project ACCESS	3
Beyond Crossroads	3
Call for Nominations	4
USAMO	4
Highlights of the Spring Board Meeting	5
Focus on IMACC	6
Statway™ and Quantway™	7
Conference Corner	8-9
SML Results	10
Committee Reports	11
AMATYC Position Openings	12
AMATYC Membership Database	13
CBMS2010 Survey	14
Grant Opportunities	15
Calendar of Events	15

Jacksonville! Here we come!

by Jerrett Dumouchel, Jacksonville LEC



*Hyatt Regency Jacksonville Riverfront
Courtesy of Visit Jacksonville*

The last newsletter shared a fascinating history of Jacksonville. Now that this history is known, it is time to find out what downtown Jacksonville and its surrounding neighborhoods have to offer. The Hyatt Regency Jacksonville Riverfront, the 2012 AMATYC Annual Conference hotel, is located on the north bank of the St. Johns River and is located right in the heart of downtown. After enjoying the beautiful water views and gazing at the many bridges, the first place you will notice is the Jacksonville Landing. The Landing is

a short walk away from the conference hotel and is home to many great restaurants and shops. With live music most Friday and Saturday nights, the Landing is a great place to relax after an informative and enlightening day of conference sessions.

Looking for some culture? Then be sure to stop by the Museum of Contemporary Art (MOCA) and view a collection of more than 750 pieces of art from the 20th and 21st centuries. After you finish walking around the MOCA, catch a bite at the museum's restaurant. From there you can visit the Ritz Theatre and LaVilla Museum and enjoy one of the many traveling exhibits and the permanent history exhibit on the African American heritage of Northeast Florida. If live entertainment is more of what you're looking for, be sure to catch one of the many forms of entertainment offered at the historic Florida Theatre or the Times Union Center.

After you've enjoyed all that the north bank of the river has to offer, it's time to catch the water taxi and tour the south bank. One of the first stops on the south bank should be the Museum of Science and History (MOSH). The MOSH specializes in interactive science exhibits and the history of Northeast Florida. While there, you can also visit the



*Jacksonville Landing at night
Courtesy of Visit Jacksonville*

planetarium and see a dazzling show of the night sky. From the MOSH it is a short walk to Treaty Oak Park. The centerpiece of the park is a 250-year old Southern live oak with an interesting story.

Since you're on the south bank, the historic San Marco district of Jacksonville is only minutes away. Meander along San Marco Square and you will find many great local shops, restaurants, and art galleries. At the center of San Marco square is the beautiful fountain of lions. Don't forget to stop and get your picture taken with the lions! While in San Marco be sure to make a stop at Theatre Jacksonville, the oldest community theatre in the country.

Once you rest for the night and are back on the north bank of the river, take a stroll on the River Walk up to the Avondale/Riverside district. Be under the Fuller-Warren Bridge Saturday morning and afternoon for the Riverside Arts Market. There, you can taste

>> continued on page 5



*Cummer Gardens
Courtesy of Visit Jacksonville*

President's Message



Imagine!



Jim Roznowski
Harper College
Palatine, IL

After spending thirty years in the classroom, I will admit that I became rather complacent. I “knew” that my academic life would be staying about the same. I would deal with a vast number of students who were not prepared for college level mathematics. I was sure that no matter what I said or did, I would have several pre-calculus students who would still think the root of a sum was the sum of the roots. My world was nice, comfortable, and predictable.

Recently, I have started to see major changes in that broader academic world. Developmental mathematics enrollment at my most recent college has seen a significant decline. In a year-to-year comparison, the Fall 2011 developmental mathematics enrollment dropped by 4%, in Spring 2012 by 15%, and so far for Fall 2012 by 23%. There are reasons for the decline and many of you may not be seeing the same trend, but I have started to imagine what this could mean for two-year college mathematics. What would our departments become if the 60% of our enrollment in developmental mathematics shrinks to almost nothing? Would such a decline be balanced by an increase in the number of students taking college level mathematics?

Is this something we really should imagine? Well, there are a number of initiatives to streamline the developmental mathematics sequence. These include AMATYC's New Life Project led by Jack Rotman (www.sites.google.com/site/amatycdmc/), the Carnegie Foundation's *Statway*[™] and *Quantway*[™] projects (www.carnegie-foundation.org/quantway), and the Charles A. Dana Center's New Mathway Project (www.utdanacenter.org/mathways/).

In addition to the initiatives just mentioned that change the way we move students to college mathematics, we need to focus on the potential impact of the Common Core State Standards for Mathematics (CCSSM, www.corestandards.org), which can have a major impact on the need for developmental mathematics at the two-year college level. As you may know, the CCSSM initiative was a state-led effort to enable high school graduates to succeed in college-level mathematics courses and workforce training programs. The standards outline both the mathematical content and mathematical practice expected at grades K-12. If this initiative is a success, we could be faced with a new reality.

The standards for high school specify the mathematics that all students should study in order to be college- and career-ready. There are additional standards students should study in order to be prepared to take advanced courses such as calculus, advanced statistics, or discrete mathematics. Let me share a few examples of the standards for high school:

- Number and Quantity - Solve quadratic equations with real coefficients that have complex solutions.
- Algebra - Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.
- Functions - Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.
- Modeling - Distinguish between situations that can be modeled with linear functions and with exponential functions.
- Geometry - Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.
- Statistics and Probability - Recognize the purposes of and difference among sample surveys, experiments, and observational studies; explain how randomization relates to each.

>> *continued on page 5*

AMATYC Interim Executive Director



Change is part of every life, even the life of an organization. The most recent changes for AMATYC are the resignation of the Executive Director Patrick Winters and the appointment of Cheryl Cleaves as the Interim Executive Director. Patrick is pursuing a new professional opportunity that would not allow him sufficient time to continue in his role with AMATYC. AMATYC appreciates his review of the organization, and the Executive Board will be examining which of his recommendations to implement.

Cheryl Cleaves is a familiar face to most AMATYC members. She has served the organization in a number of different capacities. Most recently, Cheryl was the Executive Director of Office Operations. Because of her great work in her former positions and her knowledge of the organization, Cheryl was the unanimous choice of the AMATYC Board to assume the position of Interim Executive Director. AMATYC appreciates Cheryl's willingness to once again help the organization meet the needs of current and future members.

The search for a permanent Executive Director will begin later this year. If you are interested in applying for the position, watch the AMATYC website and future issues of the *AMATYC News* for information about the position and the application process.

Project ACCESS

by Laura Watkins, AMATYC Project ACCESS Coordinator

Project ACCESS (Advancing Community College Careers: Education, Scholarship, Service) has been an important part of AMATYC for eight years with the Fellows for the ninth cohort being selected this summer. Through conference workshops, networking opportunities, and projects, new faculty are encouraged to play a vital role in mathematics education at two-year colleges. The Fellows from the first eight Cohorts are already deeply involved in advancing mathematics education by their involvement in various activities.

AMATYC has seen several Fellows take on leadership roles in the organization. The Southeast Region elected as their Vice President Annette Cook (Cohort 5). Beth Edmonds (Cohort 3) has stepped forward to be the chair of the Placement/Assessment Committee. Laura Watkins (Cohort 1) was appointed to the Project ACCESS Coordinator position. In addition to these leadership roles, many Fellows have assumed other roles within local affiliates: Jeff Downs (Cohort 2) served as the 2007-2008 president of NevMATYC while Ana Jimenez (Cohort 1) is currently serving as ArizMATYC president.

Also, ACCESS fellows are actively involved in presenting at AMATYC Annual Conferences. Take note of this when you look at this year's conference program in Jacksonville: Julia Head, Tammie Louie, Meghan McIntyre and Hatesh Radia (all of Cohort 8) will be presenting this fall.

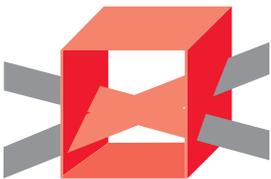
And finally, several Fellows have been recognized for their excellence in teaching and service to their institutions. Nikki Grantham (Cohort 1) received the College Service Award for her school's honors program. Stacy Jurgens (Cohort 3) received an Award for Excellence for her role in making "Pi Day" at her school a success. She was also voted Teacher of the Year by her colleagues. Marianne Rosato (Cohort 3) received the National Institute of Staff and Organizational Development teaching excellence award. Annette Cook (Cohort 5) was named the Academic Teacher of the Year for the State of Alabama in 2010.

This is just a small sample of what Project ACCESS fellows are doing. So keep your eyes on the Project ACCESS Fellows! They are the future, and the future looks good!



Looking *Beyond Crossroads*

by Jim Roznowski, AMATYC President



In 1995, AMATYC released *Crossroads in Mathematics: Standards for Introductory College Mathematics Before Calculus*.

The purpose of this first set of standards was "to address the

special circumstances of, establish standards for, and make recommendations about two-year college and lower-division mathematics programs below the level of calculus." The document defined three sets of standards for introductory college mathematics:

- Standards for Intellectual Development,
- Standards for Content, and
- Standards for Pedagogy.

The final document was the result of several years of work by scores of volunteers serving on the project task force, the planning group, the steering committee, the advisory panel, and as consultants. All of their efforts produced a document that set AMATYC up as the leader with regard to mathematics during the first two years of college.

Six years later, a plan was drafted to revisit *Crossroads* and in 2006 AMATYC released *Beyond Crossroads: Implementing Mathematics Standards in the First Two Years of College*. This second set of standards were written to "renew and to extend the goals, principles, and standards set forth in *Crossroads* and to call for their implementation." These standards focused on implementation and introduced five implementation standards

to go with the three standards set forth in *Crossroads*:

- Student Learning and the Learning Environment
- Assessment of Student Learning
- Curriculum and Program Development
- Instruction
- Professionalism

Beyond Crossroads stressed the importance of a cycle of continuous improvement, and the role of students, faculty, and institutions in the implementation of the standards.

AMATYC has begun the review process of the *Beyond Crossroads* standards with the formation of a task force led by Past President Rob Farinelli. Additional members include: Mary

Beth Orrange, Margie Hobbs, Kathryn Kozak, Bruce Yoshiwara, David Grasier, Liz Hylton, and Jerry Kissick. Their charge is to make recommendations to the AMATYC Executive Board in spring 2013 on the reaffirmation or updating of our past standards documents. If you are interested in providing input to their discussion, please contact Rob (rfarinelli@csmd.edu) or any of the task force members. Future issues of the AMATYC News will provide updates on the task force's recommendations and how you can help AMATYC move beyond *Beyond Crossroads*.



Call for Nominations

Teaching Excellence Nominations

by Nancy Sattler, AMATYC President-Elect

It is not too late! Are you looking for a way to honor a colleague who has made a difference? Consider nominating a colleague for the Teaching Excellence Award. This award is intended for educators who have made outstanding contributions to mathematics or mathematics education while teaching at a two-year college. The next Teaching Excellence Awards will be presented at the 2013 AMATYC Annual Conference in Anaheim, CA, which will be held October 31 through November 3. The application deadline is December 6, 2012.

Nominees must be AMATYC members whose primary assigned duties are delivering instruction in an associate degree-granting program. Nominees must have the equivalent of a minimum of five years of full-time teaching experience. Individuals can be selected for the award only once. Information about the nomination process can be found at www.amatyc.org/awards/TeachingExcellence. An electronic packet of a single pdf file should be submitted by December 6, 2012, to Nancy J. Sattler at nsattler@terra.edu.

The nomination packets are reviewed by the Teaching Excellence Award Committee. The committee is chaired by the AMATYC President-Elect, Nancy Sattler and has members representing each of AMATYC's eight regions. Recognize a colleague by submitting a nomination packet for him or her for the 2013 AMATYC Teaching Excellence Award by **December 6, 2012**.

The 2014-2015 Executive Board Nominations

by Rob Farinelli, AMATYC Past President

Serving as an AMATYC Officer is a wonderful way to expand your professional horizons and to contribute to AMATYC and your profession. The AMATYC Nominating Committee seeks recommendations and nominations for AMATYC National Officers and Regional Vice Presidents to serve for the 2014-2015 term. **Nominations are due February 1, 2013.**

The offices to be filled in the 2013 election are President-Elect, Secretary, and Vice President for each of the eight regions. Any regular or life member of AMATYC is eligible to run for office. Slating at least two candidates for each office is the goal of the Nominating Committee and the AMATYC Board.

For more information about the duties and requirements of the offices and the nomination process, visit www.amatyc.org/Get-Involved/nomination-board.htm.

The Nominating Committee includes twelve members who represent a cross-section of AMATYC's delegates, members, and leadership, with at least one member from each region. If you have questions, or wish to recommend yourself or someone else for an office, contact one of the members of the Nominating Committee listed below.

Jane-Marie Wright (Northeast, wright@sunysuffolk.edu)
Christine Mirbaha (Mid-Atlantic, cmirbaha@ccbcmd.edu)
Ryan Kasha (Southeast, rkasha@valenciacollege.edu)
Jim Trefzger (Midwest, JTrefzger@aol.com)
Donna Kessler (Central, donnak@mac.edu)
Chris Oehrlein (Southwest, coehrlein@occc.edu)
Charlie Naffziger (Northwest, cnaffziger@cocc.edu)
Stephen Toner (West, Stephen.Toner@vvc.edu)
Pauline Chow (At-Large, opchow@hacc.edu)
Andy Jones (At-Large, JonesAD@pgcc.edu)
Bob Malena (At-Large, bmalena@ccac.edu)
Rob Farinelli (Past-President, rfarinelli@csmd.edu)

USAMO

This year, 273 outstanding high school students tackled the six-question challenging exam for the United States of America Mathematical Olympiad. The twelve winners of the exam are: Andre Arslan (NY), Joshua Brakensiek (AZ), Calvin Deng (NC), Xiaoyu He (MA), Ravi Jagadeesan (NH), Mitchell Lee (VA), Alex Zhuo Qun Song (NH), Thomas Swayze (CA), Victor Wang (MO), David Yang (NH), Samuel Zbarsky (MD), Alex Zhu (NJ).

An awards ceremony for the twelve USAMO winners was held in Washington, D.C., at the Carnegie Institution for Science on June 4, 2012. Following the ceremony, the winners travelled to Lincoln, NE, to participate in the Mathematical Olympiad Summer Program (MOSP) for in-depth training in mathematical problem solving. Six of these outstanding students were then chosen to represent the United States at the International Mathematical Olympiad which took place July 4-16 in Mar del Plata, Argentina.



Top Row (L-R): Thomas Swayze, Xiaoyu He, Alex Zhu, Calvin Deng, Joshua Brakensiek, Victor Wang, **Bottom Row** (L-R): Mitchell Lee, (Alex) Zhuo Qun Song, Andre Arslan, Ravi Jagadeesan, Samuel Zbarsky, David Yang.
Photo courtesy of MAA.

Highlights of the 2012 AMATYC Spring Board Meeting

by Mary Beth Orrange, Board Secretary

The AMATYC Executive Board met at Southwest Tennessee CC in Memphis on April 13-16, 2012. Below are highlights of the meeting. Full minutes of the meeting may be found at www.amatyc.org/documents/SBM_2012_minutes_approved.pdf.

- Academic Committee regional representatives and members-at-large were approved as submitted. Several committees have open positions. The two-term limit for regional and at-large representatives to AMATYC Academic Committees was eliminated, effective immediately. If you are interested in serving on one of the committees, contact the chair of the specific committee.
- The position statement on proctored testing was reviewed; the second open forum for discussion will be held at the AMATYC Annual Conference in Jacksonville, FL, followed by a presentation to the Delegate Assembly for approval.
- Several special events are planned for the 2012 AMATYC Annual Conference: the Friday evening Ignite Event; a preconference statistics workshop on Wednesday, November 7; and an event sponsored by the Research Committee.
- Four task forces are being formed: AMATYC 40th Anniversary Planning, Updating the Standards - *Beyond Crossroads*, Updating of the Guidelines on Academic Preparation of Mathematics Faculty at Two-Year Colleges, and Streaming Presentations at Annual Conferences. If you are interested in participating in any of these task forces, please contact President Jim Roznowski.
- The Delegate Assembly packet will be available on the AMATYC website 30 days before the conference in Jacksonville.
- Approval of the formation of an AMATYC and American Statistical Association (ASA) joint committee as outlined in the Memo of Understanding (MOU). The MOU is attached to the full minutes.
- Approval of up to \$3,000 allocated out of special projects for the recording of sessions during the 2012 AMATYC Annual Conference.
- The discount registration for members was approved at \$340 for the 2013 AMATYC Annual Conference in Anaheim, CA.
- Approval for a regional meeting for the Southwest Region for summer 2013.

>> Jacksonville, Continued from page 1

local Jacksonville cuisine, see works by local artisans, and purchase local produce.

The must-see attraction of the Avondale/Riverside district is the Cummer Museum of Art and Gardens. The Cummer is the largest fine art museum in the region and is noted for its Old Master and American paintings, as well as its collection of Meissen porcelain. In the back of the museum, on the banks of the river, is the spectacular Cummer Gardens. One English-style garden and one Italian-style garden are stunning for gardening novices and connoisseurs. When you are finished with the Cummer it will be time for some great food at one of the many local restaurants in the area. At the heart of the Avondale/Riverside district is the Five Points shopping district. Like the San Marco district, the Five Points shopping district has plenty of local businesses waiting for your discovery.

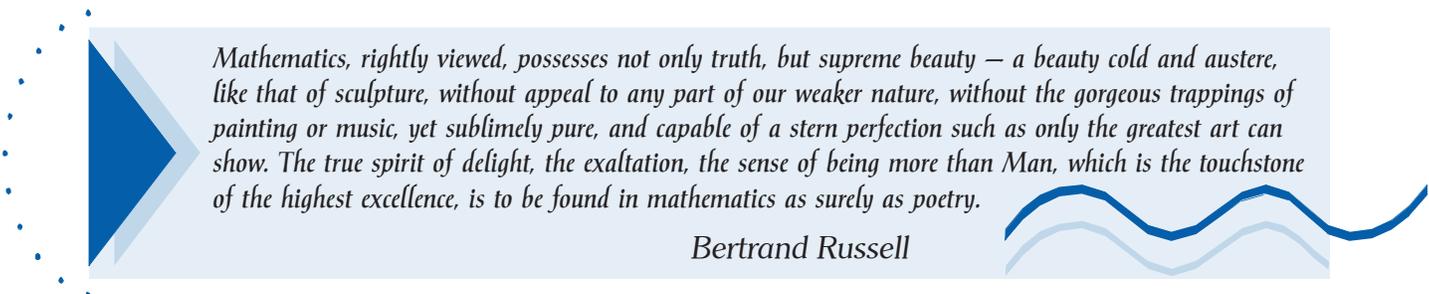
Downtown Jacksonville and its surrounding neighborhoods are just some of the great places that you will see when you are in Jacksonville. See you in November!

>> President's Message, Continued from page 2

The high school standards, as well as the standards in grades 6-8, do set a challenging definition of college- and career-readiness. If successful, we will be working with students with a deeper understanding of mathematical concepts and an ability to apply mathematics to diverse situations.

Now many of you might be skeptical of the potential impact of CCSSM. You have gone through new standards, new approaches, and new mathematics before and things are pretty much the same. It is true that there are a number of issues related to CCSSM that need to be addressed, such as, the preparation of teachers and the assessment of students. But imagine that this initiative may be the force for change in our K-12 system. Imagine that the students coming through this system arrive at your college's open door. Imagine the potential!

Learn more about the Common Core State Standards for Mathematics by visiting www.corestandards.org.



Mathematics, rightly viewed, possesses not only truth, but supreme beauty – a beauty cold and austere, like that of sculpture, without appeal to any part of our weaker nature, without the gorgeous trappings of painting or music, yet sublimely pure, and capable of a stern perfection such as only the greatest art can show. The true spirit of delight, the exaltation, the sense of being more than Man, which is the touchstone of the highest excellence, is to be found in mathematics as surely as poetry.

Bertrand Russell

Joint SUnMaRC, MAA, ArizMATYC Conference Report

by Ana Jiménez, ArizMATYC President

Twice each year the Arizona Mathematical Association of Two-Year Colleges (ArizMATYC) holds a conference for mathematics instructors from two-year institutions in Arizona. These conferences offer various sessions of interest to mathematics educators, as well as a meeting for the Mathematics Articulation Task Force where representatives from Arizona community colleges and four-year universities address articulation issues.

This spring, ArizMATYC had the unique opportunity of holding a joint meeting with the Southwestern Section of the Mathematical Association of America and the Southwestern Undergraduate Mathematics Research Conference. Over the course of three days, more than 230 registrants, including over 100 undergraduate mathematics students, from a dozen states converged on Pima CC's beautiful Downtown Campus to attend sessions on programs for pre- and in-service teachers, technology in teaching, undergraduate mathematics research, developmental education, applied and pure mathematics, and engaging students in mathematics. There was a stimulating panel discussion on how to find a job in industry with a mathematics degree and keynote speeches from Phil Kutzko, Steven Dunbar, Omayra Ortega, and Rebecca McGraw. Kutzko informed attendees of the National Alliance for Doctoral Studies in the Mathematical Science, a partnership of faculty working to increase the number of underrepresented students in the mathematics and science fields. Dunbar provided a brief history and role of Mathematical Olympiads in mathematical culture. Ortega shared her interesting journey to, and current research in, mathematical epidemiology. McGraw discussed research areas such as technology, cross-cultural comparisons, curriculum and assessment development and the psychology of learning. Finally, the conference welcomed a diverse group of presenters consisting of faculty, instructors, K-12 teachers, graduate students and undergraduate students coming from Arizona, New Mexico, Texas, Nebraska, North Carolina and Michigan.

ArizMATYC is grateful to Pima CC for hosting the conference and to all of the participants, presidents, special session organizers and keynote speakers for contributing to the success of this conference. The next conference is scheduled this fall at Yavapai CC in Prescott, AZ. For more information about ArizMATYC, please visit www.arizmatyc.org/wp.

Focus on Affiliates: IMACC

by Robert Cappetta, IMACC President

The Illinois Mathematics Association of Community Colleges (IMACC) hosted its 37th annual conference on March 29-31, 2012, at Allerton Park in Monticello, IL, and over 125 people participated. The headline speakers were Gary Rockswold and Underwood Dudley. Their inspiring presentations energized IMACC's members to return to the classroom with a clearer understanding of why it is important to teach and learn mathematics.

IMACC hosted its first leadership workshop on June 29-30, 2012. Several issues were addressed including growing membership, outreach to graduate students, mentoring young faculty members, and obtaining 501(c)(3) status. In addition, a clear vision was set for the future of the organization.

Illinois has been a national model for articulation between two-year and four-year colleges. Several IMACC members serve on the panels of the Illinois Articulation Initiative (IAI). The IAI is designed to ensure the ease of student transfer among Illinois institutions so that students can increase their chances of successfully completing a bachelor's degree in a reasonable amount of time. After twenty years of implementation, IAI is working very effectively. Looking forward, it will be important to inform Illinois legislators of the effectiveness of IAI.

Illinois has recently adopted a "pay for performance" model for colleges that will tie state funding to the success rates of students. This has led to a great deal of focus on developmental mathematics. In an attempt to address these concerns, IMACC was charged with the following tasks:

- Identify innovative teaching and learning practices in developmental mathematics.
- Study placement practices and recommend improvements.
- Align developmental mathematics with the Common Core State Standards for Mathematics (CCSSM).
- Explore an alternate pathway through developmental mathematics.

IMACC accomplished the fourth task by designing a course, *General Education Preparatory Mathematics* (GEPM), based on the recommendations of the CCSSM. This course is designed to serve the needs of developmental mathematics students who will pursue transfer mathematics courses other than calculus. The GEPM emphasizes problem solving, critical thinking, data analysis, and the writing and communication of mathematics.

There are many wonderful and exciting opportunities at IMACC. For more information, please visit www.imacc.org or contact Robert Cappetta at cappetta@cod.edu.

Improvement Research: How Carnegie is Building a Theory of Change

Alicia Grunow (Senior Managing Partner Carnegie Foundation for the Advancement of Teaching) and Gay Clyburn (Associate Vice President, Public Affairs Carnegie Foundation for the Advancement of Teaching), and in collaboration with Julie Phelps and Jack Rotman (AMATYC Pathway Liaisons)

The Carnegie Foundation is using the tools of *Improvement Research* in its work to tackle the problem of the extraordinarily high failure rates of community college students in developmental mathematics.

Improvement research is based on simple but powerful questions: (1) What is one trying to accomplish? (2) How will one know that a change is an improvement? (3) What changes can one make that will result in an improvement? Together, these questions structure an active and disciplined way of pursuing change. As Carnegie began to apply improvement research to education, it found it useful to add a fourth question: (4) What is the system that is producing the current outcomes? It is hard to improve what you do not fully understand.

It was these four questions that structured the strand of *Statway™* and *Quantway™* Community College Pathways program called Productive Persistence. Since Carnegie took on the problem of the extraordinarily high failure rates of community college students in developmental mathematics, the Foundation realized that it could not get movement on the kinds of outcomes that were being sought by changing the curriculum or course structure alone. There was a common notion that it was important to attend to what can be referred to as *student success factors, student motivation and engagement* or *non-cognitive factors*. There was also a lot of activity in this area and many innovations to draw on. Lack of innovation was certainly not the problem.

Community colleges offer students a variety and mixture of initiatives and services designed to help them succeed in college, some of them quite innovative. But if one walks from one institution to another, there is very little agreement as to what makes a good student success program. And there is a weak evidence base suggesting that these efforts are accumulating into real improvements in the college lives of students. There are also many exciting new research theories—particularly from social psychology—about specific practices that could be powerful levers of change. However, it is not really clear how these theories would be made to work in practice, specifically applied to developmental mathematics and with community college students.

As Carnegie tried to structure this strand of work into the Pathways, it experienced a period of flailing: no one was sure about what was being done or being accomplished. To address this, a theory of change and a measurement model was established as an attempt to answer questions one and two of the improvement research questions. A team with the relevant expertise in social psychology, improvement research and the on-the-ground experience supporting developmental mathematics students, was formed. The team scanned the field, talked to many people that understood the problem from different angles and identified five areas that were most important to focus on in order to obtain the desired outcome. These drivers—the factors that were identified as having the greatest impact on the problem—were “tested” with a diverse set of experts, and a measurement model that would enable the theory of change to be refined over time was built.

One of the unique things about improvement science that separates it from other education research approaches is that it is not about being comprehensive. The goal is not to develop a conceptual framework that tries to organize every possible influence and include everything one could work on. Instead, Carnegie asked, “What are the big drivers for improvement?” And what measurement will be needed to learn from efforts at change and also, improve the established theory over time?

The Productive Persistence team has refined its measurement model to make it more practical: that is, to make collecting information less intrusive on the daily lives of the community college students. The team has collected these measures and convened additional experts to improve the change theory over time. And it has started to develop and test changes, focusing on the critical first three weeks of class for a student.

In the process, Carnegie has become increasingly convinced that improvement methodologies hold promise for productively integrating diverse kinds of expertise to solve important problems. Often, there is talk about notions of *bridging* research and practice. Normally what that means is building a thin structure between two land masses that stay firmly planted. Research stays firmly on one side of a line, practice stays firmly on the other and there is only a tiny space in which they communicate with each other. Improvement research brings these two sides together in a collective process aimed at solving concrete problems of practice. It moves some people into action more quickly than they are comfortable and requires others to be a little more patient and disciplined. It also carries with it the excitement of bringing ideas into action, helping Carnegie’s best efforts lead to visible improvements in the lives of students.

Conference Corner

by Keven Dockter, Conference Coordinator



With fall semester beginning soon, I know everyone is busy prepping their classes and getting ready for a new school year. I hope you are also planning on attending the 38th Annual AMATYC Conference in Jacksonville, FL, this November.

The Conference Committee has been very busy preparing for this conference. Wanda Garner and Judy Williams have worked with the program review committee and have once again created an excellent program. You will find a variety of great sessions on a wide variety of topics.

Throughout the program are many threads on topics such as statistics or course

redesign. While an attendee can learn much in the sessions, I know you will learn even more when you visit with your colleagues from across the nation while attending this event.

You will discover a few changes in the conference this fall. The Regional Meetings have been moved to Friday from 11:45 am to 1:15 pm with luncheon served at 11:45 am. We hope you will join your colleagues in your region to discuss important issues for our organization and to learn more about each other. A few weeks before the conference, AMATYC will release its first conference app. Look for more information in future emails and the next issue of the AMATYC News about this exciting development. There are also a number of events you can attend if you arrive early. AMATYC's Statistics Committee is co-sponsoring an all-day workshop on Wednesday, or you could choose to attend the Research in Mathematics Education for Two-Year Colleges Committee's session on Wednesday evening and learn about future research. Perhaps you just want to stop by the hospitality room and play some of the games the local committee has created for you. If you are not ready to begin your conference on Wednesday, sign up for a tour of St. Augustine. Information about this tour and other touring options is available on the conference website. And finally, presenters and participants should notice upgraded equipment provided for sessions so that information can be shared more easily with you.

I want to remind everyone to book their room early in the AMATYC room block at the Hyatt Regency Jacksonville Riverfront. This is a beautiful hotel in a gorgeous location. Situated on the St. Johns River and a fabulous riverfront walkway, you may see dolphins or even manatees swimming nearby while looking out your window. With complimentary Wi-Fi in the guest rooms, our block will fill up quickly. You will want to be close to your friends and all the events taking place during the conference.

Even though the conference committee has been focusing on Jacksonville, we have begun our planning for the 2013 AMATYC Annual Conference in Anaheim, CA. In mid-May we visited the Anaheim Marriott to map out the program for next year's conference. We have a great location, excellent meeting space, and superb room rates. Make plans to attend both of these conferences on opposite coasts!

I hope you are getting excited about the Jacksonville conference. I am looking forward to seeing you, so please remember to stop me, introduce yourself, and say hi when you are enjoying the abundant Florida sun and southern hospitality this coming November.

Jacksonville Tours

by Keven Dockter and Jerrett Dumouchel

Would you like to see more of the Jacksonville area than just the Hyatt Regency? Is your spouse attending the 2012 AMATYC Annual Conference with you and wondering what to do while you are in sessions? Are you arriving early and want to do some sightseeing?

AMATYC has joined with Destination Planning Corporation in Jacksonville to provide informative, unique, educational, and entertaining tours for your enjoyment during the conference. All tours will begin and end at the Hyatt Regency Jacksonville Riverfront.

Reservations and questions can be emailed to reservations@DestinationPlanning.com or made by phone at 904.249.3729. Reservations must be completed in advance to arrange for transportation; each tour requires a minimum number of participants to ensure it will occur as scheduled. The deadline for signing up is September 28. All arrangements are made through Destination Planning Corporation.

A more detailed explanation of each tour is posted on the conference website at www.amatyc.org/Events/conferences/2012Jacksonville/JacksonvilleTours.html.



Castillo de San Marcos located in St. Augustine

St. Augustine Historical Hitchhiker Tour:

Wednesday, November 7th, 1:00 pm - 7:00 pm. A fun and informative look at our nation's oldest city. One can explore 400 years of history on this amazing tour.

Discover Jacksonville Walking Tour:

Friday, November 9th, 1:00 pm - 2:45 pm or 3:00 pm - 4:45 pm. Take a stroll through downtown Jacksonville and learn as a knowledgeable and colorful guide will lead you through the modern urban city and let you in on the less-known but absolutely fascinating stories of this versatile town's past.

Jacksonville Scenic Boat Tour:

Friday, November 9th, 3:00 pm - 5:00 pm. What better way to appreciate all of the natural beauty

>> continued on page 10

Conference Corner

2012 Conference Program Highlights

by Judy Williams, Assistant Conference Coordinator

Mark November 8-11, 2012, on your calendar to join your colleagues at the 38th Annual AMATYC Conference in Jacksonville, FL. Thursday's opening session will commence with "Navigating the Waters of Assessment" with Diane Maldonado, Associate Vice President of Academic and Student Affairs at Point Park Univ in Pittsburgh, PA. On Saturday, following the awards breakfast, Keith Devlin, Stanford University senior researcher, also known as National Public Radio's "Math Guy" will reveal "The Missing Link: A Tale of Literary Forensics."

Watch for sessions bearing the newest strand in the Program Key, Curriculum Redesign, "restructuring content or delivery of a course or sequence of courses," a very important topic across the country. Thursday morning, Jack Rotman will discuss "Bringing New Life to Your Developmental Mathematics" and then on Friday afternoon he will lead a workshop about "New Life Courses: Mathematical Literacy and Transitions." Redesign is also the emphasis on Saturday, with Philip (Uri) Treisman presenting "New Mathways: Reforming Mathematics Education at Scale" in the morning and "Inside the Dana Center's New Mathways Project" in the afternoon.

One major program change in the conference this year is the Regional Meetings now scheduled for Friday, from 11:45 am to 1:15 pm with luncheon served at 11:45 am.

Those with smart phones or tablets will be able to access the conference information using the conference app. Learn the details by attending the "Using the Conference App" session hosted by Conference Coordinator Keven Dockter on Thursday at 7:50 am. This session will show you how to download the app and will walk through its many features from creating your own personal schedule to posting pictures you have taken.

Another feature of this conference is the availability of complementary Wi-Fi in every guest room booked through the AMATYC room block.

First-time attendees should be sure to indicate their status on the registration form and also take advantage of "AMATYC 101" on Thursday morning at 9:00 am.

Those arriving on Wednesday might want to participate in the statistics workshop, "Identifying and Addressing Difficult Concepts for Students in the Introductory Statistics Course"; the McGraw-Hill event "Turning the Corner in Developmental Mathematics"; or the REMTYC committee Research Presentation in the evening. The first two events require registration; check the miniprogram for details.

Additional outstanding conference events include:

- ✦ "Drowning in the Math Textbook" by invited speaker Lucy MacDonald, Saturday at noon;
- ✦ "Leading with Inspiration: Five Choices for Life Success" by invited speaker Steve Piscitelli, Friday at 10:10 am;
- ✦ "Extreme Calculus" by Paul Zorn, President of the Mathematical Association of America, Friday at 1:45 pm;
- ✦ "Mathematics Leadership Resources to Influence Teacher Leaders" by Suzanne Mitchell, President of the National Council of Supervisors of Mathematics, Saturday at 1:15 pm;
- ✦ Symposium, "Modeling and Applications Workshop" on Friday at 9:45 am and preceded by two sessions on Thursday:
 - ♦ "Why Students Need Modeling" by Gary Rockswold, Thursday at 12:10 pm
 - ♦ "Mathematical Modeling: The Right Courses for the Right Reasons" by Sheldon Gordon, Thursday at 1:40 pm;
- ✦ "2010 CBMS Survey of Undergraduate Programs" by Rikki Blair, Thursday at 11:20 am;
- ✦ "River of Knowledge, (Pacific) Ocean of Dreams," a report on the International Congress on Mathematics Education by Barbara

Leitherer and Steve Krevisky, Saturday at 12:00 pm;

- ✦ Themed session, "Aspects of Placement and Assessment," Thursday, 9:00 am - 10:55 am;
- ✦ Themed session, "Research to Spice Up Your Classroom," Thursday, 9:00 am - 10:55 am;
- ✦ Themed session, "Evidence-based Developmental Math Redesign," Friday, 9:00 am - 10:55 am;
- ✦ Themed session, "Authentic Applications: Legitimizing the Mathematics We Teach," Friday, 9:00 am - 10:55 am;
- ✦ Poster session with great ideas for the classroom and beyond, Friday 1:45 pm - 3:45 pm, with browsing from 11:00 am to 6:00 pm;
- ✦ Department/Division Chairs' colloquium, Thursday at 12:30 pm;
- ✦ Faculty Math League Contest, Friday at 2:55 pm;
- ✦ Affiliate Sharing session, Friday at 2:55 pm;
- ✦ Grand Opening of the Exhibits, Thursday at 4:30 pm, with dedicated times on Friday and Saturday for visiting with representatives from all your favorite publishing companies eager to share materials designed to help your students succeed;
- ✦ Commercial presentations each day highlighting the latest technological tools, and product demonstrations in the Exhibit Hall on Friday;
- ✦ Forums on Thursday evening featuring "Conversations About AMATYC" and the final hearing on the position statement on proctored testing sponsored by the Innovative Teaching and Learning Committee; and
- ✦ Meetings for each of the AMATYC Academic committees; check the conference program for specific times.

Make plans now to see old friends and make new ones while renewing your professional energy with your colleagues in Jacksonville, FL, at the 38th Annual AMATYC Conference.

Student Mathematics League

by Susan R. Strickland

Both rounds of the Student Mathematics League competition have been completed and the final results are in.

Final Team Results:

1. West Valley College, CA
2. East Los Angeles College, CA
3. Los Angeles City College, CA
4. De Anza College, CA
5. Brookdale CC, NJ
6. Fullerton College, CA
7. Santa Monica College, CA
8. Mt. San Antonio College, CA
9. Ohlone College, CA
10. San Jose City College, CA

Final Individual Results:

1. Julia Huang, West Valley College, CA
2. Kevin Zhou, Brookdale CC, NJ
3. (tie) Dennis Cui, West Valley College, CA
Keegan Mendonca, West Valley College, CA
5. (tie) Amanda Chow, West Valley College, CA
Kevin Weia, West Valley College, CA
Myung-Geun Chi, West Valley College, CA
8. Ziqi Hang, East Los Angeles College, CA
9. (tie) Colin Aitken, San Jose City College, CA
Matthew Deng, West Valley College, CA
Johnny Ho, West Valley College, CA

Top Schools and Students by Region:

- Northeast:** La Guardia CC, NY
Michael Smith (Quinsigamond CC, MA)
- Mid-Atlantic:** Brookdale CC, NJ
Kevin Zhou (Brookdale CC, NJ)
- Southeast:** Georgia Perimeter College, GA
Trevor Sharpe (Pellissippi State CC, TN)
- Midwest:** Harper College, IL
Aldo Ansel (Harper College, IL)
- Central:** Normandale CC, MN
Tuo Gao (Normandale CC, MN)
- Southwest:** Austin CC, TX
Darien Lee (Collin College, TX)
- Northwest:** Highline CC, WA
Hyunwoo Kim (Highline CC, WA)
- West:** West Valley College, CA
Julia Huang (West Valley College, CA)

A big thanks to all of the moderators who give the exams, grade them, record them, and send them in.

If your school does not currently participate in the SML, please consider registering for next year's competition. You can read about the SML on the webpage at www.amatyc.org/SML or email susanst@csmmd.edu with any questions. The dates for next year's competition are Friday, October 19 through Saturday, November 3, 2012 (Round 1), and Friday, February 15 through Saturday, March 9, 2013 (Round 2). Don't forget to register your school for next year's competition at www.amatyc.org/SML/registration.html.

Many traditional two-year institutions have begun to offer four-year programs and degrees. Depending on those programs, a school may or may not be eligible to participate in the SML competitions. If an institution offering four-year programs would like to participate, a committee has been formed which will review the programs offered at the school and make a determination as to their eligibility for participation in the SML. Any such institution may request a review by sending an email to the SML Coordinator, Susan Strickland, at sml@amatyc.org.

See you in Jacksonville! Don't forget to look for the time and place for the ultra-competitive Faculty Mathematics League Contest.

>> **Jacksonville Tours,**
Continued from page 8

and abundant wildlife of the waterway than to be escorted on your two-hour adventure by a knowledgeable staffer of the St. Johns Riverkeeper, a group in the forefront of the ecology and outstanding advocates for adequate enforcement of laws that insure the well-being of this phenomenal asset to the First Coast. **St. Augustine Dining & Shopping Shuttle:**

Saturday, November 10th, 3:00 pm - 8:00 pm. See all that you can as you explore the beautiful city of St. Augustine. St. George Street might be the heart of St. Augustine, but don't forget to meander down some of the side streets, you never know what kind of treasures you might find. The shuttle will depart the Hyatt at 3:00 pm and return at 8:00 pm.



Castillo de San Marcos in St. Augustine



Q: What do you get if you divide the circumference of a jack-o-lantern by its diameter?



A: Pumpkin Pi!

Committee Reports

Developmental Mathematics Committee

by Linda Zientek, Developmental Mathematics Committee Chair

The AMATYC Developmental Mathematics Committee (DMC) is proud of its increasing membership. Currently, there are approximately 190 DMC members. While there are many topics of interest to developmental education members, course redesign has been a topic that has been at the forefront of discussions. In response to this interest, the DMC committee submitted a themed session for the 2012 AMATYC Annual Conference entitled "Evidence-based Developmental Math Redesigns."

Sharing information, learning from colleagues, and networking are goals that the DMC tries to facilitate for members. Several venues are available for DMC members, which include the DMC newsletter, website, and Google Groups. DMC members are encouraged to submit information for inclusion on the website and newsletter.

This year there have been two DMC-sponsored webinars that are available on the AMATYC website. Kathleen Almy presented on *New Pathways for Developmental Mathematics* with a focus on *Mathematical Literacy for College Students*. Uri Treisman and Jack Rotman presented on issues related to reform in developmental and gateway mathematics.

In addition, the committee has two position statements under consideration: Teacher Qualifications for Developmental Mathematics and Intermediate Algebra. Both of these will be discussed at the November meeting in Jacksonville. For further updates on the DMC committee, please consult the website www.sites.google.com/site/amatycdmc/leadership or become a member of the committee. DMC members receive updates through Google Groups.

A New Voice



The AMATYC Office is happy to introduce you to our student clerical assistant, Karoline Shott. She is a senior at the University of Memphis studying Business Management. Karoline is working 15 to 20 hours a week performing assigned tasks. She is a quick-study and is effectively learning her way around the office. If you call the office and Karoline answers, be sure to extend an AMATYC-friendly welcome to her. [Note: Karoline is not **new** to the AMATYC Office; she is the daughter of Mike and Christine Shott. Christine serves as our Publications Director and Mike has assisted at several AMATYC conferences at the registration desk.]

Q: What's New on the Research Front? A: AMATYC Research Pre-session!

by April Ström, Research Committee Chair

The Research in Mathematics Education for Two-Year Colleges Committee (RMETYC) is hosting a Research Pre-session in Jacksonville, FL, at the 2012 AMATYC Annual Conference on Wednesday, November 7, 2012, starting at 7:00 pm. Pack your bags and head to Jacksonville early to learn about exciting research that is currently being conducted. Preliminary findings about student learning and teaching innovations will be shared with the audience.

The purpose of the pre-session is for presenters to report on preliminary research that they are currently engaged in and provide opportunities for discussion with the audience. Sessions will be thirty minutes, including ten minutes for discussion, so feel free to drop in on one or several sessions. RMETYC will offer a broad range of research reports - from quantitative to qualitative studies - as well as general sessions about what you can expect from mathematics education research at community colleges.

Look for more details of RMETYC's Pre-session in the AMATYC conference miniprogram. Email notifications about this pre-session will also be sent out. If you are interested in joining RMETYC's email distribution list, contact April Ström (Committee Chair) at april.strom@sccmail.maricopa.edu.

Future AMATYC Conferences

2012	Jacksonville, FL November 8-11
2013	Anaheim, CA October 31-November 3
2014	Nashville, TN November 13-16
2015	New Orleans, LA November 19-22
2016	Denver, CO November 17-20
2017	San Diego, CA November 9-12
2018	Orlando, FL November 15-18

For additional information, contact the AMATYC Office at amatyc@amatyc.org or 901.333.6243.

Seeking a Traveling Workshop Coordinator

Promoting and providing professional development is one of AMATYC's strategic initiatives. AMATYC's professional development programs have grown dramatically over the past couple of years with the addition of the AMATYC Webinar Series and the increase in traveling workshops related to developmental education and statistics. To manage and to continue to support this growth, the AMATYC Board has recently approved the *Traveling Workshop Coordinator* position to assist the Professional Development Coordinator with the Traveling Workshop Program. The Traveling Workshop Coordinator will serve a major role in the promotion of the Traveling Workshop program.

AMATYC is seeking a member with good written and verbal communication skills, who is well-organized, and who is able to work with colleagues and provide leadership. Applicants must also maintain current regular or life membership in AMATYC. The length of the appointment term is three years, and there will be some support to attend the AMATYC Annual Conference.

Some of the general duties of the Traveling Workshop Coordinator are as follows:

- Assist the Professional Development Coordinator in developing workshop options and curricula for new workshop strands.
- Coordinate the recruitment of new Traveling Workshop facilitators.
- Coordinate the orientation and training of new Traveling Workshop facilitators at the annual conference or via web training.
- Maintain regular contact with all Traveling Workshop facilitators and the Professional Development Coordinator.
- Work with those requesting a Traveling Workshop to clarify the topic(s) for the workshop.
- Follow up with Traveling Workshop host and facilitator to ensure workshop goals and expectations are met.
- Review evaluations of Traveling Workshops.
- Perform other duties necessary to promote successful Traveling Workshops.

For more details, visit www.amatyc.org. Applicants should email a letter of interest, current resume, and letter of support from their supervisor to Jim Ham at jimham@amatyc.org. Applications will be accepted until the position is filled.

Seeking a *Math*AMATYC Educator Editor

AMATYC would like to thank Pete Wildman for being the editor of *MathAMATYC Educator* since it started in 2010. Pete has decided it is time to allow someone else the joy of editing it. So, AMATYC seeks an editor for this journal that is published three times a year.

The editor will be responsible for all phases of publication of the journal including the solicitation of articles and the editorial process. The editor will work with an editorial panel that will help select, edit and develop articles for each issue. Qualifications for the position are detailed below.

Qualifications

- Maintain current regular or life membership in AMATYC.
- Proficient in emailing, word processing, and faxing.
- Competent in proofreading, writing, and grammar.
- Experience in publishing and reviewing for journals.
- Competent with editing procedures.
- Willing to explore new ideas to enhance member satisfaction with journal.
- Able to remain tactful and helpful to authors and reviewers, yet create and maintain a quality product within AMATYC policies.
- Possess excellent organizational skills and ability to manage document flow to ensure on-time publication of the journal.
- Able to facilitate the on-time publication of three issues per year.
- Possess or willing to obtain a familiarity with the major laws concerning libel, copyright, invasion of privacy, and contempt.
- Able to view issues objectively and from the point of view of both AMATYC and AMATYC members.
- Exhibit a team spirit and a commitment to cooperation and collaboration.
- Possess the personal qualities of patience, sympathy, insight, breadth of view, sense of humor, imagination, interpersonal skills, objectivity, the ability to remain calm under pressure, timeliness in responding to email.

Support

Support for this position includes the intangible compensation of intellectual stimulation, satisfaction, professional development and the satisfaction of serving your profession. The tangible compensation includes support for attendance (travel, accommodations, meal per diem) at AMATYC Annual Conferences.

Term of Office

Duties will begin at the end of the 2012 AMATYC Annual Conference, and continue until the end of the 2017 conference. To be considered for the editor of the journal, the following materials should be sent electronically to Jane Tanner (tannerj@sunyocc.edu):

- A cover letter expressing interest in the position and citing relevant experience for this position
- A curriculum vitae
- A letter or email of support from your supervisor

Review of materials will begin on **August 31, 2012**, and the position will remain open until filled. If you have any questions about the position, please direct these to Jane Tanner.

AMATYC Membership Database Update

by Beverly Vance

It's hard to believe that it has been over a year since we migrated to our web-based data management system for our membership! While we (the Office and You) experienced a few bumps along the way, we hope you will agree it's been a positive change for the organization.

Here are a few reminders, suggestions, and answers to Frequently Asked Questions that will make navigating your way around the system easier:

- **Your email address is very important.** It's our most important way of communicating with you as well as being your login to access your record profile and register for AMATYC events. If your email address changes, *be sure to update your profile*, or notify us at amatyc@amatyc.org.
- **Not sure if you have a record in the database?** If you are currently a member (or were a member in the past), attended a conference, submitted a proposal to be a presenter - you have a record in the database. Before completing the New Visitor form and creating a duplicate record, please call or email to verify or ask for assistance.
- **What if I don't remember my password?** When you are at the login screen, enter your email address - the one we have in your data record - in the appropriate box and then select the "Forgot My Password" hyperlink. An email will be sent to you with a link to reset your password. If you don't receive the email or you're not sure what email address appears in your record, please call the office for assistance.
- **When does my membership expire?** Once you have logged into the database, several folders will appear on the left side of your screen. Select the "MY INFORMATION" folder tab. Your data profile information will appear. There are two links just above your name - EDIT PROFILE and CHANGE PASSWORD. Select **EDIT PROFILE** and the membership expiration date appears just below your name/address section. If you make any changes, be sure to select the **SAVE** button at the bottom of the page.
- **How do I pay my dues?** All membership renewal notices are now sent by email which includes a link to the membership database home page to renew and pay online. Once you are logged in, select the "MY INFORMATION" folder tab. If you hold your cursor over the tab, you should see a drop-down box. Select the "MY TRANSACTIONS" option. If your dues need to be renewed, there will be a "PAY OPEN ORDERS" button to select. Once you select that button, you will be taken to the shopping cart to process your payment. If you prefer to pay by check, you can download a renewal form from the AMATYC website (www.amatyc.org); the office mailing address appears at the bottom of the form.
- **What if there is no order to pay showing in my record?** This usually means your membership has been moved to a lapsed status. Simply select the "Online Store" from the left menu and once in the shopping cart, locate the "Top 100 Products" box. Click on this box and select "membership" from the list. The available options will appear. Make your selection and proceed through the check-out process. If this does not work, please call the office for assistance.
- **I usually pay my dues when I register for the conference. Can I still do that?** Sure, that's not a problem. If you are an "8/31 expiration," you will have an open dues order in your record. After you have your conference registration in the shopping cart, select the "checkout" button. As you progress through the checkout, a screen will come up that says you have a dues order and asks if you want to pay it now. Check the box for yes so the dues will be added to your shopping cart and the total amount to pay is updated. Continue the checkout and finalize your purchase.
- **What if my membership is not an 8/31 expiration and I want to pay dues?** You can do that. Once your conference registration fee is in the shopping cart, select "membership" from the Top 100 Products box and the membership categories (regular, adjunct, retired, etc.) with their assigned expirations (2/28, 5/31, 8/31 or 11/30) will filter out for you. Make the appropriate selection, add to your cart and continue the payment process. **If you're not sure of your expiration date, it will be printed on the address label of the conference miniprogram you receive in the mail. Also, instructions for looking up your dues expiration date online appear in the "How do I pay my dues?" bullet.*
- **I don't want to share my personal information in the directory. What do I need to do?** Review the "When does my membership expire?" bullet. Once you have selected EDIT PROFILE and your profile information appears, there is a check box just below the field where you enter your college name that must be checked. When this box is checked, no one else will be able to view your information in the directory.
- **Why do you want to know my birthday?** You're correct - we've not ever asked for this before. The AMATYC leadership is taking a closer look at our membership population and demographics in order to identify trends and ways to promote the organization. It is an optional response. It has been suggested that we provide a selection of age ranges to answer this question instead of giving an actual birth date. We will implement this request in the near future.
- **What's new?** A feature of our database system allows you to give us your social media (Facebook, Twitter, LinkedIn, and Google+) information and thus provide other communication options with our members. More details will be announced by email very soon.

If you have a question that hasn't been addressed here, please email Beverly Vance at bvance@amatyc.org or call the AMATYC office at 901.333.6243.

2010 Survey of Undergraduate Programs in the Mathematical Sciences in the United States

by Rikki Blair, AMATYC Past President

The report of the 2010 survey of mathematics departments, titled CBMS2010, Statistical Abstract of Undergraduate Programs in the Mathematical Sciences in the United States, is available online at www.ams.org/profession/data/cbms-survey/cbms. Every five years since 1965, a comprehensive study of undergraduate programs in the mathematical sciences in the United States has been undertaken under the auspices of the Conference Board of the Mathematical Sciences (CBMS), with funding from the National Science Foundation and support from the mathematical sciences professional societies.

For the 2010 survey, a stratified random sample of 600 two-year and four-year institutions was selected from roughly 2500 institutions that were either public two-year colleges or (public or private) four-year colleges and universities that have undergraduate programs in mathematics or statistics. The two-year college sample included a stratified random sample of colleges selected from 1,121 two-year colleges. The survey return rate was 105 surveys returned: that is, 51% of the sample.

Go to www.ams.org/profession/data/cbms-survey/cbms to view the complete survey, data tables, and text with information about enrollments, faculty, instructional strategies, and special topics including pedagogy in college algebra, teacher preparation programs, distance learning, and developmental mathematics.

Here are some highlights of the 2010 data and some comparisons with the 2005 data:

- Number of Students
 - Number of Two-year College (TYC) mathematics students: 2,105,000
 - 21% increase since 2005
 - Number of Four-year College (FYC) mathematics students: 2,437,000
 - 26% increase since 2005
 - 2010 TYC mathematics course enrollments were 47% of all post-secondary mathematics enrollments
- Number of Faculty
 - Number of full-time permanent faculty: 9,790
 - Number of full-time temporary faculty: 1,083 (up 78% from 2005)

- Number of part-time faculty: 25,776
- 46% of mathematics class sections were taught by part-time faculty (up 2% from 2005)
- Dual and Distance Enrollments
 - Dual enrollment: 80,805 students (up 92% from 2005)
 - College Algebra almost doubled since 2005
 - Pre-calculus up 66% from 2005
 - Calculus down 2% from 2005
 - Statistics up 74% from 2005
 - Distance learning enrollment: 187,523 students
 - 9% of total mathematics enrollment (up 4% from 2005)
 - Elementary Algebra up 5%
 - College Algebra up 9%
 - Trigonometry up 7%
 - Statistics up 11%
- Course Enrollments
 - Precollege enrollments: 1,150,000 students
 - 2010 Precollege enrollments were 57% of all TYC mathematics enrollments (up 19% from 2005)
 - Arithmetic up 40% from 2005
 - Calculus enrollments: 138,000 students
 - 7% in 2010, compared with 6% in 2005
- Class Size
 - Average class size in face-to-face courses was 24 students in 2010, compared with 23 students in 2005.
 - Class size in distance learning courses ranged between 4-24 students with an average class size of 19 students in all courses.

AMATYC members, Rikki Blair (OH), Stephen Rodi (TX), Rob Kimball (NC), and Terrie Teegarden (CA) were members of the two-year college survey team. Questions about the survey may be addressed to the Survey Director, Ellen Kirkman (kirkman@wfu.edu) or the Associate Director, Rikki Blair (richelle.blair@sbcglobal.net).

More Conference Information

AMATYC Conference Scholarships: If you are attending the 2012 AMATYC Annual Conference, contact your affiliate president about the availability of an AMATYC affiliate scholarship. Each affiliate is given one discounted conference fee. Last year some affiliate scholarships went unclaimed. Do not let your affiliate be listed on the unclaimed list!



Excited about 38th Annual AMATYC Conference? Do you want to see more of what Jacksonville, FL, has to offer? Visit www.visitjacksonville.com/AMATYC for more information.



Grant Opportunities

by Dana Calland

Some upcoming grant opportunities for the AMATYC membership:

STEP

www.nsf.gov/pubs/2011/nsf11550/nsf11550.pdf

Due Date September 25, 2012

Synopsis: The Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) seeks to increase the number of students (U.S. citizens or permanent residents) receiving associate or baccalaureate degrees in established or emerging fields within science, technology, engineering, and mathematics (STEM). Type 1 proposals are solicited that provide for full implementation efforts at academic institutions. Type 2 proposals are solicited that support educational research projects on associate or baccalaureate degree attainment in STEM.

ATE

www.nsf.gov/funding/pgm_summ.jsp?pims_id=5464

Due Dates

Full Proposal Deadline Date: October 18, 2012

Synopsis: With an emphasis on two-year colleges, the Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive the nation's economy. The program involves partnerships between academic institutions and employers to promote improvement in the education of science and engineering technicians at the undergraduate and secondary school levels. The ATE program supports curriculum development; professional development of college faculty and secondary school teachers; career pathways to two-year colleges from secondary schools and from two-year colleges to four-year institutions; and other activities. Another goal is articulation between two-year and four-year programs for K-12 prospective teachers that focus on technological education. The program also invites proposals focusing on research to advance the knowledge base related to technician education.

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 27, March 1, June 1, and August 15 for the respective issues.

Address changes should be sent to:

AMATYC Office
Southwest Tennessee CC
5983 Macon Cove
Memphis, TN 38134
Phone 901.333.6243
Fax 901.333.6251
amatyc@amatyc.org

All other correspondence should be directed to:

David Tannor
AMATYC News Editor
Grand Rapids CC
143 Bostwick Ave. NE
Grand Rapids, MI 49503
Phone 616.234.2392
Fax 616.234.4288
AMATYCNews@amatyc.org

AMATYC Calendar of Events

September 15, 2012 **UMATYC Conference**, Snow College, Ephraim, UT. Contact: Cindy Alder, cindy.alder@snow.edu

September 22, 2012 **WisMATYC Fall Conference**, UW Manitowoc, Manitowoc, WI. Website: www.wis.matyc.org

September 29, 2012 **LaMsMATYC Conference**, New Orleans, LA. Contact: Susan Santolucito, ssanto@dcc.edu. Website: web.lsu.edu/LaMsMATYC/LaMsAnnualConference.htm

October 12, 2012 **ArizMATYC Conference**, Yavapai College, Prescott, AZ. Website: www.arizmatyc.org

October 12, 2012 **IMATYC Conference**, Indian Hills CC, Ottumwa, IA. Contact: Diane Mason, dmason@indianhills.edu. Website: www.niacc.edu/math/imatyc

November 8-11, 2012 **38th Annual AMATYC Conference**, Jacksonville, FL. Contact: AMATYC Office, amatyc@amatyc.org

December 7-8, 2012 **CMC³ Monterey Conference**, Monterey, CA. Website: cmc3.org/conference/Monterey11/Monterey11.html

April 12, 2013 **NEBMATYC Conference**, Central CC, Columbus, NE. Contact: Bonny Rainforth, bonnyrainforth@cccneb.edu or Amy Wahlmeier, awahlmeier@cccneb.edu. Website: www.northeast.edu/Organizations/NEBMATYC

A form is available to update or add affiliate conference information. The form can be found at www.amatyc.org/affiliates/affiliates-conferences.htm.

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

David Tannor, Editor
AMATYC News
Southwest Tennessee CC
5983 Macon Cove
Memphis, TN 38134

Notes and Reminders!

Book your hotel room now! A block of guest rooms at reduced rates has been reserved at the Hyatt Regency Jacksonville Riverfront until October 10, 2012, or until AMATYC's room block is sold out, whichever comes first. Reservations can be made at <https://resweb.passkey.com/go/AMATYC> or by calling 888.421.1442 and mentioning you are attending the AMATYC Annual Conference in Jacksonville!

2012 Annual Conference in Jacksonville
Discount Registration Deadline
Postmark by September 30, 2012
Online or Fax by October 7, 2012

Teaching Excellence Award Nomination
Deadline: **December 6, 2012**

Call for Nominations for the
AMATYC Executive Board
Deadline: **February 1, 2013**

For more information visit www.amatyc.org

Volume 27 Number 3 August 2012

AMATYC
NEWS®

ISSN: 0889-3845