

American Mathematical Association of Two-Year Colleges



43rd AMATYC Annual Conference

San Diego, California
November 9 – 12, 2017

Sheraton San Diego Hotel & Marina

1380 Harbor Island Drive
San Diego, CA 92101

Reservations: 1.877.734.2726
(mention AMATYC Conference)

Reservations Website:
[www.starwoodmeeting.com/Book/
AMATYC43rdAnnualConference](http://www.starwoodmeeting.com/Book/AMATYC43rdAnnualConference)

Hosted by CMC³- South and the West Region

Register for the conference
online at www.amatyc.org

Keynote and Breakfast Speakers

Scott Adamson
Chandler-Gilbert CC
Is It 1957 or 2017?

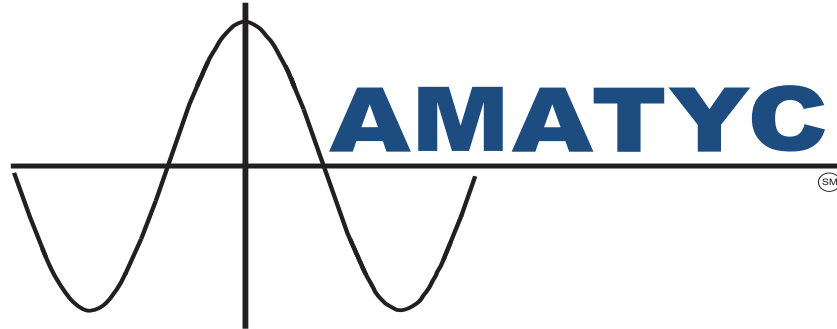
Jim Matthews
Siena College
*Key Components for Any Math Course:
Newspapers, Trains, and Lockers*

Featured Speakers

John Martin
Santa Rosa Junior College
Digging for Gold: Discovering the Golden Ratio

Myra Snell
Los Medanos College
*Rethinking Placement and Remediation to
Maximize Success and Equity*

Opening Doors Through Mathematics



Vision Statement

To be the leading voice and resource for excellence in mathematics education in the first two years of college

Mission Statement

To provide high quality professional development, to advocate and collaborate at all levels, and to build communities of learners for all involved in mathematics education in the first two years of college.

Adopted by the Board on April 1, 2016

Core Values

These are the Core Values that guide AMATYC's internal and external interactions with each other and our community (in alphabetical order):

- * **Academic Excellence**
- * **Access**
- * **Collegiality**
- * **Innovation**
- * **Integrity**
- * **Professional Development**
- * **Teaching Excellence**

American Mathematical Association of Two-Year Colleges

43rd Annual Conference ✧ San Diego, California

KEYNOTE SPEAKERS



Thursday Opening Session

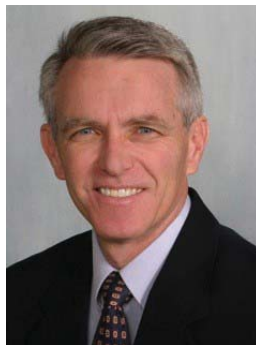
Scott Adamson
Is It 1957 or 2017?

Thursday, November 9, 3:00 pm

In the opening session of the 43rd Annual AMATYC Conference, Scott Adamson asks us to think about how the teaching and learning of mathematics in 1957 compares to the teaching and learning of mathematics in 2017. What images come to mind? What are students doing? What is the teacher doing? What tools are available? Are images different in terms of what students or teachers are doing in 1957 versus 2017? Should they be different? By thinking about what mathematics is, what should be taught to prepare our students for the future and to engage them to think mathematically? Adamson will inspire us to take specific strategies back to our classrooms, reinvigorated to impact the lives of our students in 2017 and beyond.

Adamson graduated from Northern Arizona University with a bachelor's degree in mathematics education and started his career at Payson High School. After three years, he moved to Chandler High School and completed a master's degree in mathematics education from Northern Arizona University. For the past 20 years, he has been teaching students to enjoy mathematics at Chandler-Gilbert Community College. In 2005, Adamson completed the doctoral program in curriculum and instruction with an emphasis on mathematics education at Arizona State University.

The AMATYC Teaching Excellence Award was awarded to Adamson in 2007 and he received the John and Suanne Roueche Excellence Award, 2014-2015, from the League for Innovation in the Community College. He was a Maricopa Institute of Learning Fellow, 2001-2002, and received an AMATYC INPUT Award, 2000. In 1997 Adamson was recognized as an Outstanding Arizona Educator at a Phoenix Suns basketball game.



Saturday Awards Breakfast Session

Jim Matthews
Key Components for Any Math Course: Newspapers, Trains, and Lockers

Saturday, November 11

Breakfast Served: 7:45 am - 8:15 am (ticket required)

Program: 8:30 am - 10:00 am

There are five reasons to study mathematics. These reasons should form the basis for any math course and if they do, there is a high probability of success. The Saturday morning breakfast speaker, Jim Matthews, will lead a discussion that focuses on the most important reason to study mathematics.

Matthews has been a faculty member at Siena College for over 30 years. At Siena, he teaches mathematics, computer science, and courses for the education department including supervision of student teachers. In recent years he has been teaching Discrete Mathematics, Analysis of Algorithms, Theory of Computation, and Methods and Materials for Teaching Mathematics.

Prior to joining the faculty at Siena, Matthews was a secondary mathematics teacher in Chatham, NY, and he taught mathematics for over ten years in kindergarten through fourth grade classrooms. He has also worked as a consultant for many school districts and educational associations, the majority of this work for urban and rural schools.

Matthews served on and chaired committees for the New York State Education Department. He is an active member of the National Council of Teachers of Mathematics, the Association of Mathematics Teachers of New York State, and the Seaway Section of the Mathematical Association of America. He has served on committees and boards for all of these organizations, including a term as President of the Association of Mathematics Teachers of New York State.



Downtown View from Point Loma (Courtesy of Joanne DiBona, www.sandiego.org)

FEATURED SPEAKERS



John Martin

Digging for Gold: Discovering the Golden Ratio

Friday, November 10,
1:45 pm – 2:35 pm

Over the years many people have ascribed mystical properties to the number known as the golden ratio.

Featured speaker John Martin will

explore some of the legend and lore surrounding this number as well as the mathematics behind it. Careful sifting will reveal some nuggets faculty can use to enliven their own presentations in algebra and liberal arts classes.

Martin was born and raised in Riverside, CA, where he learned to dislike smog and congested freeways. He did his undergraduate work at Humboldt State University where he found joy in learning about the history of mathematics. He began his teaching career at Clark Junior High in Glendale, CA, and subsequently taught at Crescenta Valley High School for four years. During that time, Martin took classes at the University of Southern California and earned his M.A. in mathematics. In the fall of 1981 he was hired to teach full time in the math department at Santa Rosa Junior College in Santa Rosa, CA, and remains there today.

In 2011 Martin won the Polya award for an article that he wrote on the cycloid for the *College Mathematics Journal*. He notes that this makes him a “one-hit wonder” since he has no intention of ever writing another journal article. Martin has spoken at numerous local, state, and national conferences.

In addition to his wife, Martin’s family includes three daughters, a son, two sons-in-law, eight grandchildren, one dog, and one cat. He plans to retire in 2020 (with perfect hindsight) in order to pursue his hobby of growing Pythagorean trees.



Myra Snell

Rethinking Placement and Remediation to Maximize Success and Equity

Saturday, November 11,
10:45 am – 11:35 am

Featured speaker Myra Snell has been teaching mathematics at Los Medanos College (LMC) for nearly 25 years. At LMC she has served as Chair of the

Mathematics Department, Director of the Developmental Education Program, and Student Learning Outcomes Assessment Coordinator. Snell earned a B.A. in liberal arts with honors from the University of Texas at Austin in 1983. After a short stint as a professional baker (breads not cakes), she returned to school and in 1988 completed a M.A. in pure mathematics at the University of California, Berkeley.

From 2008-2010, Snell was a consultant for the Carnegie Foundation for the Advancement of Teaching when *Statway* was under development. In 2010, she co-founded the California Acceleration Project (CAP) with Katie Hern. Over the last six years, CAP has supported 35 California community colleges to implement accelerated statistics pathways for underprepared students. In the first cohort of eight colleges, students in accelerated statistics pathways were four and one-half times more likely to complete transferable math, and the achievement gap for African American students was eliminated. CAP now works to broaden access to college-level math and narrow equity gaps through more accurate assessment/placement using multiple measures and the use of corequisite remediation.

Snell was one of four finalists for the national Faculty Innovation award from the American Association of Community Colleges in 2014. In 2016 *Washington Monthly* included her (and Katie Hern) in their list of the Sixteen Most Innovative People in Higher Education.

Symposium: The Scholarship of Teaching and Learning (SoTL) in College Mathematics

sponsored by the Research in Mathematics Education for Two-Year Colleges (RME/TC) Committee

Y1 Friday, November 10
10:15 am - 11:05 am

Exploring Teaching and Learning in College Mathematics

Jacqueline Dewar, professor emerita of mathematics at Loyola Marymount University, has worked with two- and four-year college faculty to improve K-12 math/science teacher preparation programs, encourage women’s participation in mathematics, and undertake scholarly investigations of teaching and learning. Drawing on her experience as a Carnegie scholar and co-editor and contributor to *Doing the Scholarship of Teaching and Learning in Mathematics*, she will describe the challenges and rewards of engaging in the scholarship of teaching and learning.

Y2 Friday, November 10
11:25 am - 1:25 pm

Embarking on Inquiry in Your Classroom

Ann Sitomer, mathematics education and evaluation researcher, and Jacqueline Dewar, professor emerita of mathematics at Loyola Marymount University, will present some of the foundational elements of classroom research including methods and design, considerations of researching within your own classroom, and the sharing of research outcomes. Examples of research topics and SoTL research studies in mathematics will be presented. Participants will have the opportunity to share and discuss research questions and designs that could grow into SoTL research projects at their home institutions.

Y3 Saturday, November 11
10:45 am - 12:45 pm

Moving from Reflective Teaching to Classroom Inquiry

John T. Smith, mathematics professor at Mississippi State CC and Chair of RME/TC, and Megan Breit-Goodwin, mathematics professor at Anoka-Ramsey CC, will facilitate an exploration of classroom inquiry through SoTL investigations. The workshop will include examples of SoTL research in postsecondary mathematics and opportunities for participants to collaboratively explore teaching and learning questions pertinent to the first two years of college mathematics and their classroom experiences.

CONFERENCE PROGRAM



Chat & Chew * Thursday 8:00 am - 8:50 am

*Pastries being provided courtesy of AMATYC's Corporate Partners - Hawkes Learning and McGraw-Hill Education.
Be sure to bring your own beverage.
(See page 21 for a description of this event.)*

CC1	How to Motivate the 21st-Century Learner Kate Gallagher	CC9	Developing an Anxiety-Free Attitude Lorinda Fattic	CC17	Integration Bee in a Box Kristi Rieg
CC2	Engage Students Through Technology Marcel Prevuznak	CC10	AMATYC in Its Prime – A History Lisa Feinman	CC18	Sudoku – Rules, Origins, Puzzles Sharon Sweet
CC3	Transforming the Classroom – Adaptive Learning with ALEKS Mary Merchant	CC11	Professional Development Beyond the Conference Julie Gunkelman	CC19	Fantastic Apps and Where to Find Them Nathalie Vega-Rhodes
CC4	Active Learning in the Non-STEM Classroom Dave Sobecki, Brian Mercer	CC12	Make Class More Interesting with Gems from ‘Popular’ Math Books Vincent LoCascio	CC20	Developmental Math Real-World Problem: Ideas for Possible Solutions Paula Wilhite
CC5	Women’s March to STEM Equity Nina Bohrod	CC13	Meaningful Discussion Boards in the Online Course Kim McHale	CC21	Help with the Guidebook App Darlene Winnington
CC6	Classroom Assessment – What It Tells About Students and Teachers Carl Clark	CC14	The Butterfly Method: A Different Way to Teaching Factoring Quadratics Aimee Nguyen	CC22	Searching for Effective Projects for Elementary Statistics Students Prudence York-Hammons
CC7	History of Math in Competitive Math Problems Steven Davis	CC15	AMATYC IMPACT (Improving Mathematical PROWESS And College Teaching) Mary Beth Orange		
CC8	How to Keep Up with Millennials and Get Them Engaged in Learning Math Ilknur Erbas-White	CC16	Inverses: To Switch or Not To Switch? That Is the Question! Scott L. Peterson		



Following the title of each regular session and workshop you will find letter codes identifying the general categories that best describe the focus of the presentation. The first code listed designates the primary area of focus. Please check the Program Key box on page 4 for this year's featured categories and codes. Attendees are encouraged to bring smart phones, tablets, or laptops to fully participate in portions of these presentations: S004, S010, S011, S014, S020, S021, S024, S030, S035, S045, S048, S060, S061, S067, S081, S083, S088, S093, S094, S099, S100, S106, S109, S134, and S138.

Thursday 8:00 am - 8:50 am

S001	Is a Corequisite College Algebra Course Possible? (D, IS, MI) Becky Diischer, Carri Hales
S002	Using Web-Based Interactive Songs to Help Students Learn Statistics (ST, IT, R) John Weber
S003	Integrating Open Educational Resources in Mathematics Courses (CR, DI, G) Pete Surgent, Danielle Truszkowski
S004	Quantitative Reasoning – Global Numeracy, Global Change (GC, GE, IT) John Thoo, Kurt Kreith, Al Mendle
S005	Projects! Projects! Projects! Explore Implementing Simple Projects! (IS, GE, D) Keturah Johnson

S006	Self-Guided Placement: A Retrospective Study of Algebra Students (PA, R, D) Debbie Panasuk, Kim Puhala
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Thursday 9:10 am - 10:00 am

S007	AMATYC 101 (G) Liz Hylton, Dan Fahringer
S008	Faculty Collectively Learning to Increase Homework Completion Rates (IS, R, DI) Milena Cuellar, Steve Cosares, Haley McNamara
S009	From Toys to STEM: Tactile Activities for Precalculus Through Calculus (MI, IS) Sylvia Gutowska, Clarence Baney
S010	Designing Online Developmental Mathematics for Student Success (DL, D, R) Amy Barnsley, Kay Penkava

Thursday, November 9

- S011 **Tools for Creating Your Own Accessible Math Documents (G, IT, IS)**
Susan Mosteller, Mary Monroe-Ellis
- S012 **Post Assessment Blues (IS)**
Rachel Frankel, Karen Smith
- S013 **How Could Artificial Intelligence Change College Math Education? (IS, IT, G)**
Alexander Atwood
- S014 **Engaging College Algebra Students Using STEM Labs (CR, MI, D)**
Alvina J. Atkinson, Angela Lively, Sharron Jenkins
- S015 **Medieval Mathematics (H, GE, G)**
David Price, Elise Price
- S016 **Non-STEM Developmental Math Courses: Content and Training (D, CR, ST)**
Anne Praderas Vance, Colleen Hosking

Thursday 9:10 am - 11:05 am

Themed Session

- T1 **Data Science and the Introductory Statistics Course**
- T1A **Real Data Is Messy ... and Manageable (ST)**
Carl Clark, Beverly Wood
- T1B **Introductory Data Cleaning and Presentation for Data Science (ST)**
Karen Starin, Andrew Kerr
- T1C **ASA DataFest: A Data Science Immersion Experience! (ST)**
Robert Gould
- T1D **Using FRED (Federal Reserve Economic Data) in Introductory Statistics (ST)**
Kim McHale
- T1E **Visualize This! Using R in Introductory Statistics Courses (ST)**
Mary Rudis
- T1F **Developing a Two-Year College Data Science Certificate Program (ST)**
Brian Kotz

Themed Session

- T2 **Engaging Future Teachers with Concepts of Rational Numbers**
- T2A **Analyzing Pre-Service Teachers' Thinking About Proportionality (TP)**
April Ström
- T2B **Modeling Fractions Using Manipulatives (TP)**
Jake McIntyre
- T2C **A Math/Music Bridge with Fractions (TP)**
Cheryl Ooten
- T2D **Vocabulary and Language Functions When Teaching Rational Numbers (TP)**
Amber Rust
- T2E **Rational Reasoning (TP)**
Cynthia Griffin Ediger
- T2F **Egyptian Fractions (TP)**
Laura VanDeKop

Thursday 10:20 am - 11:10 am

- S017 **Priming the Quantitative Literacy Course (GE, CR)**
Marcus Jorgensen
- S018 **Putting Applications First in Math Lessons (IS, CR, GE)**
Kevin Hulke
- S019 **Make Them Think! Engaging Students in Productive Struggle (IS, D, GE)**
Mike Sieve, Heather Howington
- S020 **Teach Your Students When and Where They Want to Be Taught! (IT, DL)**
Christina Dwyer
- S021 **Math in an Instant-Feedback World (IT, IS, CR)**
Jessica Bernards, Wendy Fresh
- S022 **The Adjunct Instructor: Tools for Success (DI, IS, TP)**
Ken Rand
- S023 **Making Connections Through Interactive Learning (D, IS, R)**
Barbara Johnson, Judy Beecher
- S024 **Math Works!! Activities that Make Connections (GE, IS)**
Pat Riley

San Diego Program Key

CR	Curriculum Redesign (restructuring content or delivery of a course or sequence of courses)	H	History of Mathematics
D	Developmental Mathematics	IS	Instructional Strategies (learning styles, teaching methodologies, addressing math anxiety and study skills)
DI	Department/Division Issues (adjunct faculty, mentoring new faculty, math labs, interdisciplinary classes or projects, tutoring, administrative issues)	IT	Instructional Technology (computer software, Internet resources, graphing calculators, etc.)
DL	Distance Learning (hybrid or online classes)	MI	Mathematics Intensive (college algebra, precalculus and beyond)
G	General Interest	PA	Placement and Assessment (placement of students, and assessment in the classroom or of courses and programs)
GC	Global and Cultural Education (awareness of mathematics in other cultures, and appreciation of our role as educators with global citizenship)	R	Research (includes research results or work based on research)
GE	Mathematics for General Education (finite mathematics, liberal arts, quantitative literacy)	ST	Statistics
		TP	Teacher Preparation (preparing teachers of mathematics at any level)

Thursday, November 9

S025 **It Is Prime Time for Corequisite College Math (D, CR)**
Tina Ragsdale, Heather Coltharp, Corey Waddlington

S026 **Removing Barriers to Success in Front-Door Math Courses (R, G)**
Maryke Lee, Deborah Howard, Miray Seward,
Chris S. Hulleman

Thursday 11:20 am - 12:35 pm

C1 **Pearson Education: MyLab Math & MyLab Statistics: Skill Builder & Companion Study Plan Assignments**
Diane Hollister

Thursday 11:30 am - 12:20 pm

S027 **Statistical Errors: Finding Them, Avoiding Them (ST, G)**
Brian Smith

S028 **Prime Time for a Look at the Electoral College (GE, G)**
Curtis Mitchell

S029 **Infinite Series: Pre-Algebra Through Calculus II (MI, D, G)**
Kirby Bunas

S030 **Group Work with Primes: A Dynamic Atmosphere for Learning (IS, IT)**
Rochelle Beatty

S031 **Prime Instructional Principles for Fully-Online Developmental Math (DL, D, IS)**
Mel Taylor, Lewis Hosie

S032 **Failure Is NOT an Option Or Is It? (IS, G)**
Kelly Jackson, Andrea Hendricks

S033 **Measurement: What's the Right Angle? (GE, IS, MI)**
Trey Cox

S034 **Ready to Share - OER Textbooks for College Algebra and Trigonometry (CR, MI, G)**
Ruth Trygstad

S035 **Have a Prime Time with Games! (IS, GE)**
Cindy Moore, Tammy Sullivan

S036 **Strengthening Mathematics Courses for Elementary Education (TP, IS)**
Pamini Thangarajah

S037 **The Making of Modern Statistics: A Historical Journey (H, ST, GE)**
Anthony Piccolino

S038 **Prime Ideas for Engaging Students in Developmental Classes (D, G, IS)**
Annette Cook

S039 **Priming the Adjunct Faculty Issues Pump (DI, G)**
Judy King

Thursday 12:40 pm - 1:30 pm

S040 **Getting Started on the Right Foot: Day 1 Diagnostics (PA, D)**
Dayna Ford, Logan Maxwell

S041 **Developing Prime Corequisite & Accelerated Developmental Math Courses (CR, MI, D)**
Scott Strother, James Willis

S042 **It Pays to Be HIP! (CR, IS, G)**
Rachel Santiago, Karen Wells

S043 **Video Projects: A Means of Assessing Content Comprehension (IS, ST, GE)**
Mary Elizabeth Gore, Heather Luman

S044 **E³ = Energize, Enlighten, and Engage (D, IS)**
Eden Donahou, Barbara LeBranch

S045 **Shocking Math, Happening Now! (GE, IS, IT)**
Alicia Collins

S046 **STEAM: Finding a Connection Between Art and Mathematics (GC, G, GE)**
Joni Burnette Pirmot

S047 **Report from a Math Literacy Veteran/Algebraic Literacy Rookie (D, CR)**
Brian Mercer

S048 **Classroom-Ready Activities for Conceptual Understanding in Statistics (ST, IS)**
Michael Posner, Monica Dabos

S049 **Teaching Critical Thinking in Mathematics (G, IS)**
Rob Farinelli

S050 **AMATYC Grants Series: NSF Grants and You (G, DI, R)**
Ron Buckmire, Elizabeth Teles, Keith Sverdrup,
Stephanie August

Thursday 12:40 pm - 2:40 pm

Q1 **Chairs' Colloquium (DI)**
Christine Mirbaha, Sean Simpson

Thursday 1:40 pm - 2:55 pm

C4 **Pearson Education: Increase Student Engagement and Learning with Learning Catalytics**
George Woodbury, Diane Hollister

Thursday 1:50 pm - 2:40 pm



Camps & Clubs Showcase

- CCS1 **GRITS – Girls Raised in the Sciences – Summer Camp to Inspire Young Minds**
Cathey Jordan, Lisa Hodge
- CCS2 **Run a Fun Math Summer Camp for Kids. Where Should You Begin?**
Sally Mulvey, Gabriela Sprague, Hanli Huang
- CCS3 **Charter a Mu Alpha Theta Chapter on Your Campus**
Paige Perry
- CCS4 **Book Clubs – They Aren't Just for English People**
Leah Rineck, Kelly Kohlmetz
- CCS5 **Refresh Before You Test: Your Role in Student Placement & Success**
Shannon Ruth, Rachel DeAlejandro

Thursday 1:50 pm - 2:40 pm

- S051 **Affiliate Sharing Session (G)**
Alvina J. Atkinson, Luke Walsh
- S052 **How Students Understand Statistics: A Prime Time to Implement Projects (ST, IS, DL)**
Wendy Pogoda, Rachel Bates
- S053 **The Intersection of Accessibility and Basic Skills (IS, D)**
Gaeir Dietrich, Christine Tunstall
- S054 **Grasp the Math: Using 3D-Printing and Active Learning in Trigonometry (IS, IT, R)**
Lee Singleton
- S055 **HIDD3N FIGURES - Where Is the Math? (IS, IT, D)**
Venrita Morgan, Benjamin Cagle, Shondranise Wright
- S056 **Time to Get a Job! (D, IS, G)**
Rachel Marcial, Ben Moulton, Carla Kulinsky
- S057 **Promoting Persistence: It's All in the Details! (IS, G, D)**
Sarah Miller
- S058 **Broadening Pathways: Teaching Math Lit Online (D, DL, IS)**
Kathleen Almy, Heather Foes
- S059 **Research-Informed Instructional Practices: The Non-Negotiable Core (IS, R)**
Matt Larson
- S060 **Making Sense of Statistical Inference: A Simulation Approach (ST, IS, IT)**
Daren Starnes
- S061 **How to Prime Your Distance Learning Students for Success (DL, IS, R)**
Jackie Johnston, Doug Richey
- S062 **Placement and Assessment Round Table (PA, D, DL)**
Behnaz Rouhani

Thursday 3:00 pm - 4:30 pm

Opening General Session

Remarks by

Jane D. Tanner, AMATYC President



Presentation of the 2017 Herb Gross Presidential Award to Keven Dockter, Conference Coordinator

Speaker: Scott Adamson

Is It 1957 or 2017?

Thursday 4:30 pm - 7:00 pm

Grand Opening of the AMATYC Exhibits

Thursday 7:00 pm - 8:30 pm

AMATYC Forums

7:00 pm - 7:30 pm

- ♦ **Initial Hearing: The Science of Learning**
Moderator: Paula Wilhite, Chair, Developmental Mathematics Committee
- ♦ **Initial Hearing: Working Conditions of Adjunct Faculty**
Moderator: Judy King, Leader, Adjunct Faculty Issues ANet

7:30 pm - 8:00 pm

- ♦ **Initial Hearing: Student Learning Problems**
Moderator: Paula Wilhite, Chair, Developmental Mathematics Committee
- ♦ **Second Hearing: Mathematics for Students in Two-Year Terminal Programs**
Moderators: Ernie Danforth, NE Regional VP, and Stefan Baratto, Chair, Mathematics and its Applications for Careers Committee

8:00 pm - 8:30 pm

- ♦ **AMATYC IMPACT: Improving Mathematical Prowess And College Teaching**
Moderators: Mary Beth Orrange and Nancy Sattler, Co-Chairs

Thursday 7:00 pm - 9:50 pm

Research Session

- R1 **A Case Study of Departmental Change**
Chris Rasmussen
- R2 **Best Practices to Transition Learners from One Level to Another**
Courtney Nagle, Jodie L. Styers, Chris L. Yuen
- R3 **Experiences of Latino Students in a CC Developmental Mathematics Class**
Anne Cawley
- R4 **Concepts Fundamental to Elementary Algebra in the College Context**
Claire Wladis, Kathleen Offenholley, Susan Licwinko, Dale Dawes, Jae Ki Lee
- R5 **Transitioning Learners to Calculus in Community Colleges**
Helen Burn, Vilma Mesa, J. Luke Wood, Eboni Zamani-Gallaher
- R6 **"Can't vs Aren't": The Benefits of Learning How to Learn Math**
Julie A. Maier, Judy Atkinson
- R7 **Pre-Service Teachers' Content Knowledge and Accompanying Errors**
Mike Long, Judy Werner
- R8 **Reconceptualizing Professional Learning: Lessons from Design Research**
Ann Sitomer, Leslie Glen
- R9 **CC Faculty and the Doctoral Quest: Finding a Way to Be PHinished**
Jennifer Travis, John T. Smith
- R10 **Implementation and Impact of a Web-Based Activity and Testing System**
Shandy Hauk, Bryan Matlen

Friday 7:45 am - 9:15 am

Regional Meetings* & Continental Breakfast

Northeast - Ernie Danforth	Mid-Atlantic - Dan Fahringer
Southeast - Nancy J. Rivers	Midwest - Jon Oaks
Central - Nicole Lang	Southwest - Kate Kozak
Northwest - Liz Hylton	West - Mark Harbison

Breakfast Served: 7:45 am - 8:15 am

† **Ticket Required for Breakfast Portion** †

*States, provinces, and territories for each region will be listed in the conference program.

For a description see page 22.

- S068 **Mathematics, Science, and Reality (G)**
Gary Rockswold
- S069 **Statistics: What's Hot and What's Not (ST, IS, IT)**
Marty Triola
- S070 **AMATYC IMPACT: Understanding Prowess – Making Sense of PROficiency (G, IS)**
Ted Coe
- S071 **What Motivates Students? When Asked, They Answered. (D, R, IS)**
Deborah McKee
- S072 **The Funny Thing About Math ... Volume II (GE, G)**
Terry Krieger
- S073 **Are Bad Habits Hindering Your Classroom Lectures? (IS, G, TP)**
Alan Tussy

Friday 9:15 am - 10:15 am

Dedicated Exhibit Time

Visit the publishers and other exhibitors – talk to sales representatives, authors, and editors!

Friday 10:00 am - 11:15 am

- C7 **Hawkes Learning**
Check the conference program for complete details.
- C8 **McGraw-Hill Education: Math Placement Success: Evaluating the Data of Multiple Measures**
John Hansen
- C9 **Pearson Education: Flipping the Classroom with MyLab Statistics Interactive**
Michael Sullivan

Friday 10:15 am - 11:05 am

Symposium: The Scholarship of Teaching and Learning in College Mathematics

Y1 Exploring Teaching and Learning in College Mathematics (R)
Jacqueline Dewar

- S063 **Optimizing Related Rates and Relating to Optimization (MI, IS)**
Karen Summerson, Ivana Seligova
- S064 **OERs, BCCC and ME (CR, D, IT)**
Scott Saunders
- S065 **Course-Based Assessment: Understanding the Complexities (PA, D, IS)**
Rachel Bates, Andrea Schaben, Molly Beauchman, Cheryl Hawkins
- S066 **Beyond the Classroom (DI, IS)**
Francois Bereaud, Chris Silva, Anne Gloag
- S067 **Using Mapping Diagrams to Make Sense of Functions and Equations (CR, MI, D)**
Martin Flashman

Friday 11:25 am - 12:15 pm

- S074 **Study of the Impact of Feedback on Math Instructor Performance (DI, DL, R)**
Peg Hohensee, Leslie Johnson
- S075 **AMATYC IMPACT: Understanding ProWess – Student and Faculty OWNership (G, IS)**
Karen Gaines, Julie Phelps
- S076 **A Prime Time to Bring Change to Community College Statistics Courses (ST, CR, DI)**
Anita Wah, Lara Rosenberger, Richard Corp
- S077 **Primed to Help Students Succeed: Reflections on OER Adoption (CR, DI)**
Emiliano Vega, Ralf Youtz
- S078 **The Calculus Course of the Twenty-Second Century (H, MI, IS)**
Michael George
- S079 **Hey! You Got QR on My Liberal Arts Math! (GE, IS, CR)**
Dave Sobecki
- S080 **Calculus Students Do Not Know Graphs – Learn How to Fix That (MI, PA, IS)**
Rob Eby
- S081 **GeoGebra: A Tool to Connect S, T, and E with M (IT, IS)**
Christopher Heeren
- S082 **Hands-On Math for Pre-Service Teachers 101 (TP, IS)**
Mark Kuhlman, Teresa Stricklin
- S083 **Supporting Students Online Through Web Conferencing (DL, IT)**
Christina Holdiness
- S084 **Social Justice Data: Bridge to Interest in Statistical Analysis (ST, GC, CR)**
Sue Ann Jones Dobbyn, Brittany Mosby

Friday, November 10

Friday 11:25 am - 1:25 pm

Symposium: The Scholarship of Teaching and Learning in College Mathematics

Y2 Embarking on Inquiry in Your Classroom (R)
Ann Sitomer, Jacqueline Dewar

Friday 12:25 pm - 1:40 pm

- C10 Hawkes Learning**
Check the conference program for complete details.
- C12 Pearson Education: Using Workspace to Unpack Students' Math Errors and Promote Reasoning**
Ruthmae Sears, Caree Pinder

Friday 12:35 pm - 1:25 pm

- S085 Interactive Animations for Calculus, Inside and Outside the Classroom (IT, MI, IS)**
Dan Clegg
- S086 Hands-On Precalculus - Modeling and More! (CR, MI)**
Suzanne Lavertu, Carol Paxton, Michael Davis
- S087 Showing the Data: Multiple Studies of Dana Center Math Pathways [DCMP] (R, CR, D)**
Jennifer Dorsey, Elizabeth Zachary Rutschow, Linda Zientek, Karin Samii-Shore
- S088 Prime Time Flipped – Utilizing the Prime Time of a Flipped Class (GE, ST, IS)**
Denise Nunley
- S089 Have a Prime Time with Baseball in San Diego! (GE, ST, G)**
Steve Krevisky
- S090 Enliven Your Classroom with Engaging Strategies and Activities (IS, IT)**
Randy Gallaher, Kevin Boddien
- S091 Strategies to Improve STEM Student Transition to and Through Calculus (MI, R, DI)**
Helen Burn, Vilma Mesa, J. Luke Wood, Eboni Zamani-Gallaher
- S092 Activities for GAISEing into Statistics (ST, IS, IT)**
Michael Sullivan

- S093 Using Group Projects Online to Encourage Collaboration (DL, IS)**
James Hedges, Joan Romano
- S094 Z(app) the Tedium with Apps and Applications in a Liberal Arts Course (GE, G, IT)**
Tom Pirnot
- S095 College Trigonometry Grading Based on Formative Assessment Standards (PA, IS, CR)**
Connie Schrock

Friday 1:45 pm - 2:35 pm

- S096 Just a Spoonful of Sugar ... (MI, IS)**
Beth Tsai
- S097 Through the Eyes of the Mathematician (H, G)**
Cheryl Ooten
- S098 Want an Active Classroom? Use the Five Practices! (CR, IS, MI)**
Keith Nabb
- S099 Third National Developmental Math Summit: Looking Back, Moving Forward (D, IS, PA)**
Paula Wilhite, Julie Phelps, Paul Nolting, Annette Cook
- S100 Improving Understanding and Success Rates in Introductory Statistics (ST, IS, IT)**
Patti Frazer Lock
- S101 Activities and Projects to Promote Mathematical Literacy (GE, IS, D)**
Patty George, Daniella Cortez, Angie Conley, Ilva Mariani

Featured Speaker

S102 Digging for Gold: Discovering the Golden Ratio (G, MI, H)
John Martin

- S103 Students' Deep Reflection of Pre-Statistics and Statistics: Mini Essays (ST, IS)**
Jay Lehmann
- S104 Learning College Finite Math and Applied Calculus with Games (IS, DL, IT)**
Stefan Waner
- S105 Mathematics for Elementary Teacher Candidates – Are They Prepared? (TP)**
Judy Werner, Mike Long

San Diego Program Key

CR	Curriculum Redesign (restructuring content or delivery of a course or sequence of courses)	H	History of Mathematics
D	Developmental Mathematics	IS	Instructional Strategies (learning styles, teaching methodologies, addressing math anxiety and study skills)
DI	Department/Division Issues (adjunct faculty, mentoring new faculty, math labs, interdisciplinary classes or projects, tutoring, administrative issues)	IT	Instructional Technology (computer software, Internet resources, graphing calculators, etc.)
DL	Distance Learning (hybrid or online classes)	MI	Mathematics Intensive (college algebra, precalculus and beyond)
G	General Interest	PA	Placement and Assessment (placement of students, and assessment in the classroom or of courses and programs)
GC	Global and Cultural Education (awareness of mathematics in other cultures, and appreciation of our role as educators with global citizenship)	R	Research (includes research results or work based on research)
GE	Mathematics for General Education (finite mathematics, liberal arts, quantitative literacy)	ST	Statistics
		TP	Teacher Preparation (preparing teachers of mathematics at any level)

Friday, November 10

- S106 **Customizing for Success (IS, D)**
Fenecia Foster
- S107 **Statistics: A Tool for Creating Culturally Relevant Lessons (ST, IS, GC)**
Diane Kinch
- Friday 1:45 pm - 3:45 pm**
- PS **AMATYC Poster Session: It's a Prime Time for Posters**
(See page 10 for a list of posters.)
- Friday 2:45 pm - 4:00 pm**
- C14 **McGraw-Hill Education: A Journey Through the Implementation of a Corequisite Course**
Andrea Hendricks
- Friday 2:55 pm - 3:45 pm**
- S108 **Pathway to Success (CR, D, IS)**
Linda Hintzman, Carrie Starbird, Richard Abdelkerim
- S109 **YouTube and Student Response: Prime Factors in Student Success (IT, IS, DL)**
Jeffrey C. Jones
- S110 **Student Solutions to Some Interesting Tiling Problems (G, GE, TP)**
David Dudley
- S111 **Game on: Connecting Game Play and Mathematics to Impact Student Outcomes (IT, IS)**
Amber Muenzenberger, Dan Petrak, Rob Eby
- S112 **Make a Bet: You Belong in an ANet (DI, GC, GE)**
Christine Mirbaha, Judy King, Steve Krevisky, Fary Sami
- S113 **It's Not Your Father's Primes ... It's Yours ... Create Your Own! (G, IS, GE)**
Frank Weidenfeller
- S114 **Learning at Scale: Using Research to Improve Learning in Math (R, G, IS)**
Maria Andersen
- S115 **Sampling Variability – Early and Often (ST)**
Roxy Peck
- S116 **Using Data to Improve a College Math Curriculum and Equity (PA, MI)**
Jack Rotman
- S117 **Collaborative Opportunities for an Academic Resource Center (DI, G, IS)**
Abby Allen Noble, Megan Salter
- S118 **Developing a Growth Mindset in Your Students (IS, G)**
Trisha Danielle Unten
- S119 **Faculty Math League (MI)**
Steven Blasberg, Steven Hundert

Committee/ANets Meetings

(Open to all AMATYC members.)

Friday 4:00 pm - 5:00 pm

ANets

Adjunct Faculty Issues
Division/Department Leadership
International Mathematics
Mathematics for Liberal Arts

Committees

Innovative Teaching and Learning
Teacher Preparation

Friday 4:00 pm - 5:30 pm

Committees

Developmental Mathematics
Mathematics and its Applications for Careers
Mathematics Intensive
Placement and Assessment
Research in Mathematics Education for Two-Year Colleges
Statistics



Friday 6:00 pm - 8:00 pm

Ignite Event

Impromptu Room

This year's conference will have a breakout room Thursday, Friday, and Saturday for conversations among colleagues. In San Diego, you can sign up Wednesday in the registration area for a time when you would like to meet colleagues in Marina 2 on the Lobby Level of the Sheraton Hotel & Marina. In past years, the room has been used to discuss a "hot topic" that has come to your attention right before the conference or for subcommittee get-togethers. The sign-up easels will be moved outside Marina 2 on Thursday morning. If you discover a topic that you would like to initiate a conversation about or to continue a discussion that couldn't be completed in a session, pick a time slot to get together in the Impromptu Room. Check to see who has signed up and what topic they will be discussing.

Wireless High-Speed Internet Service (WiFi)

Complimentary WiFi will be available in all guest rooms booked in the AMATYC block of rooms and in all meeting spaces.

POSTER SESSION

Friday, November 10 ♦ 1:45 pm - 3:45 pm
Check the Conference Program for descriptions.

- | | | | | | |
|------|--|------|--|------|---|
| PS01 | Placement Using Multiple Measures: The Process and the Outcomes (PA)
Patty Amick, Cheryl Hawkins | PS17 | Incorporating Contextual Interference Practices into College Algebra (IS, MI)
Timothy Glatzer | PS33 | AMATYC IMPACT [Improving Mathematical PROWESS And College Teaching] (G)
Mary Beth Orrange |
| PS02 | Building an Online Discrete Math Course (DL, MI)
Andrew Beiderman | PS18 | Professional Development Beyond the Conference (G)
Julie Gunkelman | PS34 | Onboarding Enhances Self-Directed Learning – Elementary Algebra Model (D, DL, IS)
Lester Owens |
| PS03 | Contextualized Corequisite Algebra Track (CCAT) Gets Down to Business (CR, IS, DI)
Roger Blanco,
Maria Cristina Montes De Oca | PS19 | The Flipped Mathematics Classroom: A Literature Review for Application (R, IS, CR)
Aaron Harris, Lisa Brady | PS35 | Enhancing Mathematics Learning Using Real-World Explorations (GE, IS)
Sarah Park, Lee Ann Roberts |
| PS04 | Increasing Engagement with Technology for Pre-Service Teachers (TP, IT)
Abigail Brackins | PS20 | Weekend College Success (CR, IT, D)
Kathryn Hernandez | PS36 | Regional Sodalities: Their Role in Developing Math Faculty (IS, G)
Lawrence Perez, Jack Appleman |
| PS05 | The Intrusion Conclusion (CR, IS, G)
Terrie Breetzke | PS21 | Building Equity in STEM – Fostering Pathways for Developmental Students (D, CR, R)
Vanessa Hill, Lauren Brewer | PS37 | Using Problems of the Day to Improve Student Engagement (IS, G)
Ryan Pescosolido, Marty Kellum |
| PS06 | Statistics Professional Enhancement Program for a Data-Centric World (ST, IS)
Mike Brilleslyper, Ambika Silva | PS22 | A Walk on the Pathway to Statistics (ST, D, CR)
Carol Howald | PS38 | Accelerating Developmental Students to Credit (D, IS, CR)
Leah Rineck |
| PS07 | Math Can Be Taxing: Incorporate Taxes into Your Classroom Activities (GE, IS)
Eric Burnheimer | PS23 | Contextualized Math Curriculum for Welding and Manufacturing (CR, G)
Rachel Johnson | PS39 | Fibonacci Numbers and Mathematical Induction (MI, H, G)
Stephen Rostoker |
| PS08 | Implementing Research-Based Redesign Strategies – Failure to Success (CR, D)
Heather Coltharp, Corey Wadlington | PS24 | Written Homework vs. Online Homework - Is One Better than the Other? (IT, IS, R)
James Lee | PS40 | Cooperative Learning in Calculus Classes (MI, IS)
Preeti Singh |
| PS09 | English Language Learners (ELLs) and Elementary Mathematics (TP, IS, GC)
Eileen Cyr | PS25 | Assessment Standards for Community College Mathematics (PA)
David Liu | PS41 | Active Learning Strategies for Precalculus (IS, CR, MI)
Julia Smith |
| PS10 | Teaching the Law of Large Numbers Using a Set of Non-Transitive Dice (IS, ST)
Duane Day, Charla Baker | PS26 | Addressing Students' Prerequisite Knowledge in Applied Calculus (MI, IS)
Ellen Matheny | PS42 | The Challenges of Sudoku (GE, G)
Sharon Sweet |
| PS11 | Math Boot Camp: Clearing the Path to College Algebra (PA, D, IS)
Jeanine DiDonato | PS27 | Using Standards-Based Grading in Developmental Math Courses (CR, D)
Shelbi Mayo | PS43 | Scared (Number) Senseless? Tips for Calming Students in Online Courses (DL, IS)
Tami Tacker, Lea Rosenberry |
| PS12 | Integrating Service Learning in Introductory Statistics (ST, IS)
Christina Elliott | PS28 | Increasing Student Preparation in Calculus (MI, CR)
Adriana Mendoza | PS44 | Designing a Flexible Remediation Model (CR, D, PA)
Krishna Thapa Magar |
| PS13 | Quantitative Reasoning Projects in Gateway Algebra Courses (ST, IS)
Liana Erstenyuk | PS29 | Flipping the Classroom Using OER Materials (IS, CR)
Amit Mishal | PS45 | Online Discussions in the Face-to-Face Classroom (G, IS, CR)
Jonathan Tyler |
| PS14 | Prerequisite Checks for a Successful Semester (IS, ST)
Patrick Fingerson | PS30 | Social Justice as Statistics Context (ST, CR)
Carrie Muir | PS46 | Interactive College Algebra in a Flipped Classroom (MI, CR, IS)
Marcia Vergo, Thankam Samuel |
| PS15 | Creating Content for Flipped Courses (CR, IT, IS)
Kevin Fink | PS31 | Increasing Student Interaction in the Math Classroom Using Mobile Apps (IT, IS)
Reva Narasimhan | PS47 | Growth vs. Fixed Mindset in Liberal Arts Mathematics (GE, IS)
Elizabeth Weaver |
| PS16 | Introducing a Precalculus Course for Applied Calculus (CR, MI)
Michael Finley | PS32 | Forging a Third Path (CR, D)
Aimee Nguyen | PS48 | Flipping the Precalculus Classroom (IS, MI, CR)
James Wenson |

Saturday 7:45 am - 10:00 am

Saturday Awards Breakfast Session

Breakfast Served: 7:45 am - 8:15 am*
 (*Ticket Required)

Program: 8:30 am - 10:00 am

Presentation of Awards

Jane D. Tanner, AMATYC President

Speaker: Jim Matthews

Key Components for Any Math Course:
 Newspapers, Trains, and Lockers



Saturday 10:00 am - 10:45 am

Dedicated Exhibit Time

Visit the publishers and other exhibitors – talk to sales representatives, authors, and editors!

Saturday 10:45 am - 12:45 pm

Symposium: The Scholarship of Teaching and Learning in College Mathematics

Y3 **Moving from Reflective Teaching to Classroom Inquiry (R, IS)**

John T. Smith, Megan Breit-Goodwin

Committee Meeting

2018 Conference Planning

Saturday 11:55 am - 12:45 pm

Saturday 10:45 am - 11:35 am

S120 **AMATYC IMPACT: Understanding ProwEss – Engagement (G, IS)**

Evan Evans, April Ström, Chris L. Yuen

S121 **Prime Time Excitement! Creating and Implementing an ORM Course (CR, G, DI)**

Wendy Carden

S122 **Flip + Tutoring + Facebook = Success (IS, D, MI)**

Eddie Tchertchian, Bob Martinez

S123 **Calculus C_ur_e or Calculus C_urse? (MI, IS, CR)**

Luke Walsh

S124 **Challenging Calculus Students with True/False Questions (MI, PA)**

Stephanie Garofalo

Featured Speaker

S125 **Rethinking Placement and Remediation to Maximize Success and Equity (D, PA, CR)**

Myra Snell

S126 **A Spiritual Side to Mathematics? (GE, G, H)**

Pat McKeague

S127 **Using Assessment to Motivate Learning Statistical Reasoning Concepts (PA, ST, GE)**

Christine Franklin, Tim Jacobbe

S128 **Creating Accessible Digital Course Content (IS, IT, R)**

Sonia Ford, Kyle Kundomal, Lori Thomas

S129 **Prime Problems Facing Adjuncts Today (DI, G)**

Judy King

S130 **A Primitive Pythagorean Triple (H, MI, G)**

Eric Hutchinson, Aminul KM

S131 **Learning to Learn in Developmental Mathematics (D, CR, IS)**

Wade Ellis, Dan Apple

S132 **So You Want to Build a Data Science Program (CR, ST, IT)**

Mary E. Rudis

S133 **AMATYC IMPACT: Understanding ProweSS – The Battle for Student Success (G, IS)**

Julie Phelps, Karen Gaines

S134 **All-Google, All-Mobile, All-For-Education (IT, DL)**

Kirsten K. Meymaris, Lea Rosenberry, Leslie Johnson, Carol Hannahs

S135 **Using Colors to Enhance the Teaching of Mathematics (G, MI, GE)**

Don Ransford

S136 **Teaching Calculus in the Twenty-First Century (MI, IS, R)**

Robert Cappetta

S137 **Forty-Five Years of Dev Math in Fifty Minutes (D, G)**

Jack Rotman

S138 **Teaching the Logic and Scope of Statistical Inference (ST, GE)**

Allan Rossman, Beth Chance

S139 **Creating Islamic Art with Euclidean Geometry (TP, GE, GC)**

Laura VanDeKop

S140 **2015 CBMS Survey of Undergraduate Programs (G, R, DI)**

Richelle (Rikki) Blair

S141 **Training and Supporting Adjunct Faculty in a QR Scale-Up (DI, TP, CR)**

Aaron Altose

Saturday 1:05 pm - 1:55 pm

S142 **Weave a Web: Soft Skills Taught in a Precalculus Corequisite Course (IS, D, MI)**

Johanna Debrecht

S143 **Addressing Math Anxiety: Research Findings and Classroom Practices (D, IS, R)**

Linda Zientek, Paul Nolting

Saturday, November 11

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|--|--|
| <p>S144 Blending Randomization-Based Approaches and the Central Limit Theorem (ST, CR, IT)
Matthew Rogala, Helen Burn</p> <p>S145 Making Transformations of Functions (IS, G)
Matthew T. Michaelson</p> <p>S146 Intermediate MyOpenMath (IT, CR)
Roy Shahbazian, Krystal Meier, Dahlia Vu, Ben Hager</p> <p>S147 Developing Writing Skills of Calculus Students (MI, IS)
Mariko Shimizu</p> <p>S148 Flipping Your Algebra and Statistics Classrooms (IS, D, ST)
George Woodbury</p> <p>S149 Unthinkable, Mind Blowing Projects in Statistics (ST, GC)
Barbara Leitherer, Rupa Mitra</p> <p>S150 Preparing Mathematics Teachers: AMTE's New Standards (TP, IS, R)
Randolph Philipp, Raymond LaRochelle</p> <p>S151 The Use of Peer Role Models to Improve Student Outcomes in Mathematics (G, IS, R)
Katie Bjorkman</p> <p>S152 Using Elementary Calculus to Reveal Properties of Black Holes (MI, G)
Marc Frodyma</p> | <p>S155 Math Tutoring Lab: Past, Present, Future (DI, D)
Samuel Adam McDonald, Prudence York-Hammons</p> <p>S156 Professional Development at Scale in the SUNY Math Pathways Network (IS, D, TP)
Mary Crawford-Mohat, Andre Freeman, Ann Edwards</p> <p>S157 Comparison of K-12 Math in the U.S. & Other Regions with Potential Impact (GC, R, TP)
Chris L. Yuen, Shane Tang, Myrta Groeneveld, Oiyin Pauline Chow</p> <p>S158 Integrating Projects in Liberal Arts Math Courses (GE, IS)
Rebecca Wulf, Kristin Oakes</p> <p>S159 Analogies, Rhymes, and Jingles, Oh My! (IS, G)
Tom Carson</p> <p>S160 Halving Your Cake (G, GE)
Deanna Haunsperger</p> <p>S161 Got Grades! (PA, D)
Janet Teeguarden, Donald Vondrak</p> <p>S162 Visual Approach to Word Problems (IS, D, TP)
Gigi Drent</p> <p>S163 Linear Functions: New Models for New Times (D, GE, G)
Stefan Baratto, Carol Hannahs</p> |
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Saturday 1:05 pm - 3:05 pm

- W01 **Prime Time for Coding: Using a Research Tool to Reflect on Teaching (R, TP, G)**
Laura Watkins, Patrick Kimani, April Ström, Irene Duranczyk

Saturday 2:15 pm - 3:05 pm

- S153 **Discussing Rigor When Redesigning Introductory Mathematics Courses (CR, D, MI)**
Rebecca Hartzler, Terese Rainwater, Frank Savina
- S154 **Exploring the Cubic Formula (MI, H)**
Mark Omodt, Bruce Bordwell

Saturday 3:45 pm - 5:45 pm

Delegate Assembly

Delegates are to be seated by 3:30 pm

The delegate packet will be made available online for review at www.amatyc.org on October 11, 2017. If you are a delegate and have difficulty accessing the packet, contact your regional vice president.

San Diego Program Key

CR	Curriculum Redesign (restructuring content or delivery of a course or sequence of courses)	H	History of Mathematics
D	Developmental Mathematics	IS	Instructional Strategies (learning styles, teaching methodologies, addressing math anxiety and study skills)
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Sunday, November 12

Sunday 8:15 am - 9:05 am

- S164 **The Harmonic Series for Every Occasion (MI, G)**
Steve Kifowit
- S165 **Math Boot Camp - Spend Two Weeks in January and Save a Semester! (D, IS, CR)**
Andrea Ronaldi, Joshua Grosek, Joseph Bowling
- S166 **Small Changes Make Big Impacts (IS, G, D)**
Brenda Gardner, Mony Kennedy
- S167 **The Caliri Circles (CR, IS, R)**
David Caliri

Sunday 9:25 am - 10:15 am

- S168 **Getting Jiggy with Basic Skills (D, IS)**
Anne Gloag, Cheryl Vallejo, Becky Stephens, Melissa Wolfson
- S169 **Math in Prime Time - The Dark History of Mathematics (H)**
Lisa Feinman

- S170 **Teaching Data Ethics in the Introductory Statistics Classroom (ST, R)**
Sabrina Ripp
- S171 **Quadratic Models in Multiple Representations (IS)**
Patrick Kimani

Sunday 10:30 am - 11:15 am

Closing Session

Jane D. Tanner, AMATYC President

- ✦ Conference wrap-up
- ✦ Report on Delegate Assembly actions
- ✦ Opportunities to get more involved in AMATYC
- ✦ Preview of next year's conference in Orlando
- ✦ Passing the gavel
- ✦ Adjournment



Seaport Village Kites/Courtesy of www.SanDiego.org



Remember the Past, Invest in the Future

Honor and thank outgoing AMATYC leaders with a donation to the Foundation
and

Congratulate Project ACCCESS graduate Jessica Bernards as she is awarded the
second annual Leila & Simon Peskoff Award in San Diego at the Opening Session.

Check the October issue of the *AMATYC News* for details and fundraising events
during the conference in San Diego.

American Mathematical Association of Two-Year Colleges 43rd Annual Conference • Register online at www.amatyc.org

If registering using the **Institutional Membership**, do not use this form. A special form has been emailed to the contact person at your institution. Call the AMATYC Office at 901.333.5643 if you have any questions.

- Check here if this is your first AMATYC conference (see page 20 for details). If first conference, you are encouraged to attend "AMATYC 101" (S007). If you qualify, are an AMATYC member, and are registering prior to the end of the discount registration period, see registration category B on the next page.

<p>Name _____ Please type or print legibly.</p> <p>For Name Badge _____</p> <p>Member ID# _____ See membership card or mailing label (if member).</p> <p>Preferred mailing address is: <input type="checkbox"/> College/Institution <input type="checkbox"/> Home</p> <p>College _____</p> <p>College Address _____</p> <p>City _____ State _____ Zip _____</p> <p>College Phone(_____) _____</p> <p>Email Address _____</p> <p><input type="checkbox"/> Check here if you wish to be excluded from the attendee list provided to vendors.</p>	<p>Will you be bringing a Guest(s)? (See page 20 for eligibility.) Please type or print guest's name as it should appear on name badge.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Residence Address _____</p> <p>City _____ State _____ Zip _____</p> <p>Residence Phone(_____) _____ <input type="checkbox"/> Check here if this phone is a cell phone.</p> <p>Emergency Contact _____</p> <p>Phone(_____) _____</p>
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ADA Accommodations or Dietary Restrictions: See page 21 for instructions.

Registration Method	Discount Registration	Regular Registration	On-Site Registration
MAIL (3 pages) using check or credit card <i>Payment must accompany purchase order.</i>	Registration AND payment must be postmarked BY September 30, 2017.	Registration AND payment post-marked AFTER September 30, 2017.	Registrations sent by mail must be postmarked by October 10, 2017. After this date it will be necessary for attendee to bring form and payment with them and register on-site.
ONLINE using a credit card	Registration AND credit card information must be completed BY October 7, 2017.	Registration AND credit card information completed AFTER October 7, 2017.	
FAX (3 pages) to 901.333.5651 using a credit card	Registration AND credit card information must be completed BY October 7, 2017.	Registration AND credit card information completed AFTER October 7, 2017.	Please do not fax form and credit card information after October 18, 2017. It will be necessary for attendee to bring form and payment with them and register on-site.
IN PERSON using cash, check, or credit card	Not applicable	Not applicable	Register in person on-site and pay regular rate.

Purchase Orders and Receipts: AMATYC accepts a purchase order **ONLY** if it is accompanied by payment. Every registration form received in the AMATYC Office or completed online will receive an email receipt. If you do not receive an email receipt, contact the AMATYC Office.

Refund Policy: A refund of 100% of your registration fee less a \$25 service fee will be given upon receipt of a written request postmarked by **October 25, 2017**. A 50% refund less a \$25 service fee will be given if your written request is postmarked on or after October 26, 2017, and by November 8, 2017. NO refunds will be given for requests postmarked on or after November 9, 2017. NO refund will be given for membership dues. Requests for return of overpayments must be in writing and received by the AMATYC Office no later than December 15, 2017. All requests should be sent to the AMATYC Office. Refunds for registration fees will be processed four to six weeks after the conference according to the refund policy outlined above. Exceptions to this policy may be approved in some extenuating circumstances. Please contact the AMATYC Office, 901.333.5643, for more information.

Having Trouble?

- Some institutions have "transaction limits" that are separate from your "monthly limit." If your card is declined, you may need to check your limit with your business/procurement office.
- Another common problem is the vendor type. AMATYC's credit-card processor has labeled us "Dues, Event Registration, and eStore." You may need to check with your business/procurement office to see if this is an approved vendor type.

If you have any questions, please contact the AMATYC Office at 901.333.5643 or by email at amatyc@amatyc.org.

*Send completed registration form (3 pages) with payment to
AMATYC, 5983 Macon Cove, Memphis, TN 38134*

A. DUES

To be eligible for the member registration rates, membership must be current. Current members with an expiration date of 11/12/17 or earlier, must renew their dues before registering for the conference in order to take advantage of the member registration rate. Anyone who joins AMATYC may select the member registration rates. If you are not sure of your membership status, please contact the AMATYC Office at 901.333.5643 or amatyc@amatyc.org for assistance.

Check one	Member Types	Rates
	Individual Membership - One year	\$88
	Individual Membership - Two years	\$171
	Individual Membership - Three years	\$249
	Individual Membership - Lifetime	\$1,760
	Adjunct Membership	\$44
	Retired Membership	\$44
	Associate (Students who are not mathematics educators)	\$10
	Institutional — For information, please contact the AMATYC Office at 901.333.5643.	

NOTE: If the following message - *Your membership is current and does not expire.* - appears under the Membership Information section of your record in the AMATYC database, **please disregard.** This is not a correct reflection of your membership status. In order to check your membership status to determine which category you are eligible for, click on "Profile Home." Located underneath your name will be your current membership type, e.g. Individual, Adjunct, Retired, Lifetime, Non-member, etc.

SUBTOTAL A _____

B. REGISTRATION

Persons with current AMATYC membership are eligible to use Categories A, B, D, F, or G. Individuals who join or renew their membership with conference registration are also eligible to use Categories A, B, D, F, or G. Retirees are eligible to use Category F. Adjuncts are eligible to use Category G. Registrants who select Categories A, B, D, F, or G, but whose membership cannot be verified as current will be required to either (1) pay non-member rates shown in Categories C or E or (2) join AMATYC and pay membership dues before their registration can be processed. Persons attending for the first time who are AMATYC members and who register by the Discount Registration deadline are eligible to use Category B.

Check one		Make appropriate selection(s) where applicable	Discount Registration Postmark by Sept. 30 or via Web or Fax by Oct. 7	Regular Registration Postmark after Sept. 30 or via Web or Fax after Oct. 7
	Payment must accompany registration form. (Payment must accompany a purchase order.) Fax and Web registration payment must be by credit card.			
A	Registration, Current AMATYC Member	Select meals on p. 17	\$360	\$400
B	Registration, Current AMATYC Member AND FIRST-TIME ATTENDEE ¹	Select meals on p. 17	\$310	Not Available ¹
C	Registration, NON-Member ² , not joining at this time or LAPSED Member, not renewing at this time	Select meals on p. 17	\$473	\$513
D	Registration, Current AMATYC Member, SINGLE-DAY ³ Attendee	<input type="radio"/> Thu <input type="radio"/> Fri <input type="radio"/> Weekend NO meals included	\$135	\$175
E	Registration, NON-Member ⁴ or LAPSED, SINGLE-DAY ³ Attendee	<input type="radio"/> Thu <input type="radio"/> Fri <input type="radio"/> Weekend NO meals included	\$160	\$200
F	RETIREE ⁴ Registration, Current AMATYC Member	NO meals included	\$180	\$220
G	ADJUNCT Registration, Current AMATYC Member	Select meals on p. 17	\$240	\$280
	STUDENT Registration: Please contact the AMATYC Office for more information regarding member-sponsored student registration rates.			

SUBTOTAL B _____

¹The **First-Time Attendee discount** is available **ONLY** during the Discount Registration period and **ONLY** to AMATYC members. Deadline to register using this discount: postmark by September 30 (via mail) or October 7 (via web or fax).

²**NON-Member** rates do **not** include membership.

³Single-Day Registrations

- Single-day registrations do **not** include meals. Meals may be purchased on the next page. Single-day registrants may purchase a meal ticket for the meal function (if applicable) for the day selected to attend.
- Single-Day registration materials are available for pick up at the registration counter **on the day** for which the registration applies.

⁴**Retiree registrations** do **not** include meals. Retiree registrants may purchase meal tickets to one or both meal functions.

Continue to next page →

C. FOOD EVENTS

(Non-Vegetarian includes a meat serving; Vegetarian is a non-meat meal)

			<u>Breakfast Served</u>	
Regional Meetings & Continental Breakfast — Registrant* (full conference or adjunct)	Fri., Nov. 10	7:45 am – 8:15 am		Included
Select one: <input type="checkbox"/> Non-vegetarian <input type="checkbox"/> Vegetarian				
Awards Breakfast — Registrant* (full conference or adjunct)	Sat., Nov. 11	7:45 am – 8:15 am		Included
Select one: <input type="checkbox"/> Non-vegetarian <input type="checkbox"/> Vegetarian				
Regional Meetings & Continental Breakfast — Guest of Registrant, Single-Day Registrant, or Retiree Registrant	Fri., Nov. 10	7:45 am – 8:15 am	_____tkts. @ \$50/ea.	\$_____
Select quantity: _____ Non-vegetarian _____ Vegetarian				
Awards Breakfast — Guest of Registrant, Single-Day Registrant, or Retiree Registrant	Sat., Nov. 11	7:45 am – 8:15 am	_____tkts. @ \$46/ea.	\$_____
Select quantity: _____ Non-vegetarian _____ Vegetarian				

*If you register for the full conference or adjunct rate and do not make a meal selection, you will automatically be assigned a non-vegetarian meal.

SUBTOTAL C _____

D. DONATION to the AMATYC Foundation

Please consider making a donation to the AMATYC Foundation. Anyone making a donation from January 2017 through 8:00 am, Saturday, November 11, 2017, or with the conference registration, is eligible to enter the drawings for a complimentary discount member conference registration for Orlando (or a three-year membership), a two-year membership, and a one-year membership. Bring your conference receipt to the registration desk for assistance.

<input type="checkbox"/> Developmental Mathematics	\$_____	<input type="checkbox"/> Margie Hobbs Award	\$_____
<input type="checkbox"/> Endowment	\$_____	<input type="checkbox"/> Presidential Scholarship	\$_____
<input type="checkbox"/> General Development*	\$_____	<input type="checkbox"/> Project ACCESS	\$_____
<input type="checkbox"/> Grants	\$_____	<input type="checkbox"/> Research in Mathematics Education for Two-Year Colleges	\$_____
<input type="checkbox"/> Leila & Simon Peskoff Award	\$_____	<input type="checkbox"/> Standards	\$_____

*If a fund is not selected the donation will be placed in General Development.

SUBTOTAL D _____

E. DISCOUNT

If you have been selected to receive an affiliate scholarship, select applicable registration type in Section B and enter the discount code that has been provided to you below and \$360 on the "Subtotal E" line.

Affiliate Scholarship Code _____ \$360 discount

SUBTOTAL E _____

PAYMENT METHOD (AMATYC Tax ID #11-2531258)

SUBTOTAL A _____ + SUBTOTAL B _____ + SUBTOTAL C _____ + SUBTOTAL D _____ + SUBTOTAL E(_____) = TOTAL _____

By Check (Select one) College/Institution Personal Check # _____ (Make payable to AMATYC; U.S. funds only)

By Credit Card (Select one) College/Institution Personal (Select type) American Express Discover MasterCard Visa

Name as Appears on Card (please print) _____

Billing Address for Card _____

City/State/Zip _____

Credit Card Number _____ Expiration Date _____

Signature _____

For AMATYC's planning purposes, please tell us when you plan to stop by the AMATYC Registration Desk to pick up your materials:

Wednesday, November 8 Thursday, November 9 Friday, November 10 Saturday, November 11

✦✦ Single-Day registration materials are available for pick up at the registration counter **on the day** for which the registration applies. ✦✦

(You are not committed to pick up your materials on the day selected. AMATYC will use this information to plan staffing at the registration desk.)

Make your reservations at the conference hotel: Sheraton San Diego Hotel & Marina

American Mathematical Association of
Two-Year Colleges (AMATYC)
November 9–12, 2017

Reservations received after October 13, 2017, or once room block has been filled, will be confirmed on rate and space available basis. Check-out time is 12:00 pm (noon). Check-in time is 3:00 pm. Luggage storage is available. If you are running late on your arrival time, please call the hotel to advise the front desk. Call hotel for suite availability.

Name _____

Address _____

City _____ State _____ Zip _____

Telephone(_____) _____

College/Company _____

Names of Persons _____
Sharing Room: _____

Arrival Date: _____ Time: _____ Departure Date: _____

Please make your hotel reservation online, by phone, or by mail:

Online: www.starwoodmeeting.com/Book/AMATYC43rdAnnualConference

Phone: 877.734.2726 (mention AMATYC Conference)

Address: Sheraton San Diego Hotel & Marina
1380 Harbor Island Drive
San Diego, CA 92101

Note: *The Sheraton requests that reservations be made via the web.*

Credit Card No. _____ Exp. Date _____

Signature _____

American Express MasterCard Visa
 Diners Club

Accommodations Requested:

Number of People: 1 2 3 4

Room Type: King 2 Beds
(Room type requests are noted, but not guaranteed.)

Room Rates:

Single/Double: \$184* plus applicable tax \$ _____

Additional Person: \$ 20 plus applicable tax \$ _____

Children under 18 stay for free in their parent's room.

Total \$ _____

**Room rates are quoted exclusive of applicable state, local, and occupancy taxes that are currently 12.7% (subject to change).*

Hotel Deposit: All reservation requests will require one night's deposit plus tax to hold the reservation. A valid American Express, Visa, MasterCard, or Diners Card card number and expiration date are acceptable. **Should a guest cancel a reservation, the deposit will be refunded if notice is received at least 30 days prior to the reservation's check-in, and a cancellation number is obtained. If you do not check into the hotel on the first night of your reservation, your deposit will be forfeited and your reservation will be canceled.**

On-site Conference Registration Sheraton San Diego Hotel & Marina AMATYC Registration Desk – Nautilus Foyer (Marina Tower)

Wednesday, November 8	4:00 pm - 8:00 pm
Thursday, November 9	7:00 am - 6:00 pm
Friday, November 10	7:00 am - 4:00 pm
Saturday, November 11	7:00 am - 8:00 am
Saturday, November 11	10:00 am - Noon

FOR YOUR INFORMATION

Getting There

(all prices quoted are subject to change)

Flight Plans

Flights to the San Diego area will arrive at San Diego International Airport (SAN), formerly known as Lindbergh Field. SAN is the nation's busiest single runway commercial airport and is conveniently located near downtown and very close to the conference hotels.

Airport/Hotel Transportation Shuttle Service

The **Sheraton San Diego Hotel & Marina** provides **complimentary** San Diego airport shuttle service to/from the San Diego International Airport. The courtesy airport shuttle arrives every 20-25 minutes from 4:45 am - 1:00 am, seven days a week. If arriving in San Diego, see below for Terminal 1 & 2 shuttle pickup instructions.

Terminal 1

1. After collecting your luggage, follow the "Ground Transportation" signage.
2. Walk across the sky bridge.
3. Take the escalator down to the ground level.
4. Turn right.
5. Cross the taxi/van concrete islands.
6. Walk to 3rd island, marked "Courtesy Vehicles."
7. Wait at any open spot on the curb.

Terminal 2

1. After collecting your luggage, walk across the street (toward Taxi/Hotel/Rental Car Shuttles).
2. Walk to the 3rd island (courtesy shuttles/car rental shuttles).
3. Turn left and walk down to area marked 'Courtesy Shuttles'.

If you choose to **walk** to the hotel, below are walking directions for your convenience:

1. Head southeast on Airport Terminal Rd toward Air Ln.
2. Turn right onto N Harbor Dr.
3. Turn left onto Harbor Island Dr.
4. Destination will be on the right - Arrive at Sheraton San Diego Hotel & Marina

If you are staying at the **Hilton San Diego Airport/Harbor Island** enjoy the complimentary shuttle to and from the airport on demand from 4:30 am to midnight! Pick up your luggage and proceed to shuttle location (directions above). Then simply contact the hotel front desk (619.291.6700) to coordinate your pick-up time from the airport. Please note what airport terminal you will be flying into and the shuttle will be there within 15 minutes to

whisk you away to the hotel. Planning ahead? Call the front desk prior to your arrival to arrange a time that works for you!

Getting Around San Diego

How to get from adventure to adventure

The conference hotel is on Harbor Island which is a two-mile-long man-made peninsula along San Diego Harbor. This is a great way to get in your morning, afternoon or evening walk.

Wandering downtown San Diego is an easy and fun adventure. The conference hotel is 2 miles to the Maritime Museum, 3 miles from Seaport Village, and 4 miles from the Gaslamp District. For those of you not up for walking that distance, you can easily catch an Uber, Lyft, or taxi to these areas and walk to dozens of restaurants, shopping, multiple cultural attractions, and much, much more.

San Diego is known for its active lifestyle, and if walking slows you down, there are plenty of pedicabs downtown to take you around.

In addition, the San Diego Trolley runs a circle around downtown San Diego and can easily get you to Old Town. The buses run regularly and will get you anywhere you want to go. Need more information? Call the Metropolitan Transit System at 619.233.3004 for information and trip planning.

Want to walk and explore the beaches? Get a ride to one of the beaches using Uber, Lyft, or a taxi. Then walk the long stretches of sand; rent a bicycle or roller blades to get down the boardwalk; rent a surfboard or boogie board to try out the waves; or try the many restaurants along the beaches.

Conference Housing

The 43rd Annual AMATYC Conference begins on Thursday, November 9, 2017, at the headquarter hotel, the **Sheraton San Diego Hotel & Marina**, located at 1380 Harbor Island Drive, San Diego, CA 92101.

A block of guest rooms at reduced rates has been reserved at the Sheraton San Diego Hotel & Marina until October 13, 2017, or until AMATYC's room block is sold out, whichever comes first. Any unreserved rooms in the block may be released for sale to the general public after this date. AMATYC members have purchased all available rooms the past few years, so make your reservations early! Be sure to mention that you are attending the AMATYC Conference if making your

reservation by phone. Reservations can be made at the link on the AMATYC website, the link on the previous page, or by calling the hotel at the number on the previous page.

A deposit equal to one night's stay is required to hold each individual's reservation. A valid American Express, Visa, MasterCard, Diners Card number and expiration date or a guarantee to the master account are acceptable. Should a guest cancel a reservation, the deposit will be refunded if notice is received at least 30 days prior to the reservation's check-in, and a cancellation number is obtained. If you do not check into the hotel on the first night of your reservation, your deposit will be forfeited and your reservation cancelled. Name changes to room reservations may be made up to arrival at no additional charge, if there is no change to the arrival and departure dates.

An early departure fee of one night's room plus tax will apply if an attendee checks out prior to the confirmed checkout date. You will be informed of this policy at check-in and can change your respective check-out date at the time of check-in, without charge.

A block of rooms has also been reserved at the **San Diego Hilton Harbor Island**, a short 10-minute walk from the Sheraton along the harbor. Reservations can be made at the link on the AMATYC website or by phone at 1.800.HILTONS (mention AMATYC Conference). As with the Sheraton, the rooms are available at the conference rate until October 13, 2017, or until sold out. Likewise, to obtain a refund of a deposit if the reservation is cancelled, the reservation must be cancelled at least 30 days prior to the reservation check-in date.

Both hotels are located on the scenic waterfront of Harbor Island just minutes from downtown San Diego and a variety of restaurants and attractions. Harbor Island is a



Sheraton San Diego Hotel & Marina/Courtesy of Sheraton San Diego

man-made peninsula only two miles long and a couple of hundred yards wide. It is home to several view-centric restaurants. A shoreline path with an ocean breeze makes it a beautiful location for a walk or jog while enjoying the panoramic views of the San Diego skyline.

Parking

Parking is available with rates of \$32 for self-parking per day, and \$37 for overnight valet parking. There is a large lot across the street from the conference hotel that charges \$5 per 12 hours and \$10 per 24 hours. In addition, you can park along Harbor Island Drive, but most of this has a two-hour limit or is metered parking.

Roommate Service

Those wishing to participate in the sharing economy and room with one, two, or three other conference attendees should complete the Roommate Network form that can be found on the AMATYC website, www.amatyc.org, and by clicking on the "43rd AMATYC Annual Conference" link, then the "Roommate Request Form" link found on that page no later than October 1, 2017. You should be notified, within two business days, if your request has been received. If you do not receive such an email acknowledgement, please contact Sarah Miller at smiller10@ccbcmd.edu.

The process will involve putting you in touch with anyone else wishing to share a room. It will be up to you to finalize the arrangement and send an acknowledgement to Sarah. **Note: The roommate service does not make hotel reservations so it would be very helpful if you already have one, even if one of the roommates may have to process a cancellation. Also, when making a reservation with one or more roommates, be sure to provide the hotel with the names of all individuals staying in the room.**

Registration Information

Registration

The conference registration fee includes admission to all concurrent sessions and workshops, general sessions, committee and ANet meetings, commercial presentations, and the exhibits. Also included are the Friday continental breakfast and regional meetings and the traditional Saturday morning breakfast.

To qualify for the discount registration rates of \$360 member and \$473 non-member, **registration forms must be postmarked, if submitted via mail, on or before September 30, 2017. If submitted via the web or faxed, the completed registration form must be received on or before October 7, 2017.** After these dates, registration will continue at the



Petco Park/Courtesy of Joanne DiBona and www.SanDiego.org

regular registration rate of \$400 (member) and \$513 (non-member). Registrations sent by mail must be postmarked on or before October 10, 2017, in order to be processed prior to the start of the conference.

On-site registration will be available at the regular rate (\$400 member and \$513 non-member). See the back cover of this miniprogram for the days and times the registration booth will be open.

Every registration form postmarked by October 10, 2017 or faxed by October 18, 2017 will receive an email receipt. If you do not receive an email, contact the AMATYC Office.

At the conference registration desk, you will receive your name badge, program booklet, meal tickets, and other items. **Name badges must be worn at all AMATYC functions and conference activities.**

First-Time Attendee (FTA) Discount

If you have never attended an AMATYC conference **and** are an AMATYC member, you are eligible to apply a \$50 credit toward the full discount conference registration fee. **This credit is only available during the discount registration period.** Be sure you check the box at the top of the registration form or at the beginning of the online registration process. *[This credit is only available to a first-time conference attendee who is an AMATYC member and is not transferrable to any other person.]* If you are not sure you qualify for this credit, please contact the AMATYC Office to verify.

Single-Day Registration

AMATYC offers a single-day registration to accommodate local adjunct faculty and for others unable to attend the entire conference. Those selecting this option must register for

and choose **ONE** of the following options: Thursday only OR Friday only OR Weekend (Saturday/Sunday) only. **This rate may be used only one time and is not eligible for the first-time attendee discount.** For single-day registration rates, see the registration form on page 16.

The single-day registration includes admission to all concurrent sessions and workshops, general sessions, committee and ANet meetings, commercial presentations, and the exhibits for the specified day. Single-day registration **does not** include breakfast either Friday or Saturday, but either the Friday regional meetings or the Saturday awards session are open to all registrants for the day on which they are registered. Single-day registrants may purchase special function tickets at the guest ticket price to attend the meal function for that day.

Single-day registration materials are available for pick up at the registration counter on the day for which the registration applies.

Accepted Forms of Payment

AMATYC accepts payment by check, Visa, MasterCard, American Express, and Discover. Payment **must** accompany a purchase order. If paying by check, please make payable to AMATYC (U.S. funds only).

Exhibitors

Exhibitors who are not also registered as conference participants are invited to attend any session or workshop provided seats are available after all AMATYC registrants are seated.

Registration Refund Policy

Refunds for registration fees may be requested in writing according to the following schedule. No refunds, however, are given for membership dues.

A refund of 100% of your registration fees less a \$25 service fee will be given upon receipt of a written request postmarked by October 25, 2017. A 50% refund less a \$25 service fee will be given if the written request is postmarked on or after October 26, 2017, and by November 8, 2017. No refunds for non-attendance will be given for requests postmarked on November 9, 2017, or later. Requests for return of overpayments must be in writing and received by the AMATYC Office no later than December 15, 2017. All requests should be sent to the AMATYC Office. Refunds for registration fees will be processed approximately four to six weeks after the conference as per the refund policy. Exceptions to this policy may be approved in some extenuating circumstances. Please contact the AMATYC Office, 901.333.5643, for more information. This refund policy is also applicable to registrants for a single-day registration.

Guests of Attendees

Guests are always welcome at AMATYC conferences. They can be registered at no cost provided the guest is not a mathematics educator and is accompanied by a conference registrant. Guest registration does not include attendance at the special functions: Friday Continental Breakfast or Saturday Awards Breakfast. Special function tickets may be purchased for your guests.

Policy Related to Guests of Attendees at AMATYC Events

General Policy

AMATYC is a professional organization for mathematics educators, and AMATYC events must serve these educators. AMATYC welcomes family members of its event attendees, as registered guests, at these events, and recognizes that these events may be a positive experience for them.

To ensure that AMATYC events meet attendee expectations that include a pleasant and productive professional development activity, attendees are responsible for their guests' behavior.

In particular, guests who are minors must be accompanied by the responsible attendee parent or guardian at all times. Attendee parents and guardians should take appropriate steps to ensure that their child's behavior does not disrupt other attendees, or infringe on their rights to the quality professional development activity they expect and for which they have paid.

Any guest should never prevent access to a session for a professional attendee – particularly, in a case of limited seating availability, materials availability, etc., professional attendees have priority. Children should not normally be in sessions. Exceptions might include when the

child is related to the presenter and the child might benefit by being present.

Event officials are empowered and instructed to enforce these rules by taking all actions necessary to control disruptive or nuisance behavior.

Many hotels provide recommendations for in-room child care for guests. Call the hotel as early as possible for service. Arrangements represent a contractual agreement between the individual and the child-care provider. AMATYC assumes no responsibility for the services rendered.

AMATYC-Supplied Computer and Internet Access at AMATYC Events

Guests may only use equipment where permitted by the event officials in charge of that equipment and where such use does not hinder access to the equipment by professional registrants. In addition, guests who are minors may have Internet access only if they are under the immediate and direct supervision of a parent or guardian.

ADA Accommodations/Dietary Restrictions

AMATYC is committed to serving all conference attendees who have disabilities and adheres to the guidelines set forth in the Americans with Disabilities Act (ADA). Attendees with disabilities requiring special accommodations or dietary restrictions should contact Beverly Vance before October 16, 2017, at bvance@amatyc.org.

Conference Program

This **miniprogram** is provided as your guide for planning your conference activities. All presentations listed are subject to change. A more detailed program will be included in your registration packet that you will pick up at the conference registration desk.

The conference app will be available on www.guidebook.com a week before the conference begins. You can download the Guidebook app anytime at iTunes or Google Play and then the AMATYC conference app before you travel to San Diego.

Special Events

Thursday and Friday

Chat & Chew

Start the conference at 8:00 am Thursday. Bring your coffee to the inaugural table talk session and receive a complimentary pastry from

AMATYC Corporate Partners, Hawkes Learning and McGraw-Hill Education. Choose a topic and join the facilitator at that table for an exciting 15 minutes. When the bell rings, move to another table with a different topic. You

will have time for three different topics, such as “Active Learning in the Non-STEM Classroom,” “Women’s March to STEM Equity,” and “Motivating 21st Century Learners” to highlight just a few. Find the complete list of topics and facilitators on page 3.



Camps & Clubs Showcase

San Diego will be the site of another first for AMATYC. Thursday at 1:50 pm, stop by the Impromptu Room in Marina 2 to see what your colleagues have been doing with math clubs or camps for their own students or those in the community. Talk with one or several groups to hear about what they have done and get ideas for your own camp or club. Find the list of presenters on page 5.

Thursday

AMATYC 101

At 9:10 am on Thursday, Liz Hylton (Northwest Region VP) and Dan Fahringer (Mid-Atlantic Region VP) will provide an overview of the association, followed by the opportunity for questions from first-time attendees, new affiliate presidents, or any other person interested in learning more about the organization. Tips for getting the most out of your AMATYC Conference will also be shared, including how to get the most benefit from the conference app.

Themed Sessions

Thursday morning, there will be two themed sessions in which six different speakers have 15 minutes to share their ideas.

The Statistics Committee's themed session, “Data Science and the Introductory Statistics Course,” will share sources of real data, methods of data cleaning, and graphical methods for visualizing data. Learn about the ASA DataFest student competition and a program that prepares students to work in the field of data science.

The Teacher Prep Committee will host “Engaging Future Teachers with Concepts of Rational Numbers.” Talks will address pre-service teachers' concepts of proportionality, fractions in musical rhythms, and a trip back in time to learn about Egyptian fractions.

AMATYC IMPACT

IMPACT (Improving Mathematical PROWESS And College Teaching) is the new follow-up document to the AMATYC's signature documents *Crossroads in Mathematics* and *Beyond Crossroads*. Attend four sessions, two on Friday and two on Saturday, to learn about each area making up PROWESS: Prowiciency, Ownership, Engagement, and Student Success.



Giraffe Mother and Baby/Courtesy of San Diego Zoo

Grants Information

Thursday at 12:40 pm, Ron Buckmire, with colleagues from the National Science Foundation (NSF), will describe NSF grant programs of interest to community colleges, provide suggestions for submitting proposals, and talk about what NSF looks for in successful proposals. Take advantage of these experts to answer your questions about grants.

Affiliate Sharing Session

All current and future affiliate leaders can network, ask questions, share ideas, and learn from each other during this session Thursday afternoon. Leaders will be Luke Walsh, NCMATYC affiliate president, and Alvina J. Atkinson, GMATYC affiliate president. Topics for discussion include program and conference planning, ways to strengthen and grow affiliates, and other items proposed by the attendees. Bring examples of what your affiliate has been doing this past year. Seize this prime opportunity to brag about your affiliate!

AMATYC Forums

Five forums will be held Thursday evening. The forums are an opportunity for you to provide your input on the work currently being done by AMATYC committees and task forces. All members are welcome. AMATYC delegates are encouraged to attend. To gain more information on the *Beyond Crossroads* revision project, plan to attend the four *IMPACT* sessions.

Initial Hearing: The Science of Learning

sponsored by the

Developmental Mathematics Committee (DMC)

Moderator: Paula Wilhite, DMC Chair

7:00 pm - 7:30 pm

Learning is an active, contextualized process of building concepts. The goal of this proposed position statement is to validate standard practices that maximize the opportunity for every learner to improve his/her ability to learn regardless of current level of achievement.

Initial Hearing: Working Conditions of Adjunct Faculty

sponsored by the

Adjunct Faculty Issues (AFI) ANet

Moderator: Judy King, AFI ANet Leader

7:00 pm - 7:30 pm

This forum seeks input from AMATYC members regarding the expectations of colleges employing adjunct mathematics faculty. We'll review the tools and resources these faculty require to meet an institution's goal in achieving student success and the college's expectations of the faculty themselves.

Initial Hearing: Student Learning Problems

sponsored by the

Developmental Mathematics Committee (DMC)

Moderator: Paula Wilhite, DMC Chair

7:30 pm - 8:00 pm

This proposed position statement has the goal of maximizing students' successful attain-

ment of skills critical to expand career options and to promote good citizenship. To consider for endorsement are standard practices to achieve enhanced basic mathematics skills, greater self-efficacy, improved self-regulated learning, and increased persistence.

Second Hearing: Mathematics for Students in Two-Year Terminal Programs

sponsored by the Mathematics and Its

Applications for Careers Committee (MAC)

Moderators: Ernie Danforth, NE Regional VP

Stefan Baratto, MAC Committee Chair

7:30 pm - 8:00 pm

Mathematics courses specifically designed to meet the requirements for a terminal two-year degree should possess certain attributes.

- Content should emphasize occupational skills directly related to the needs of students entering the workforce but be above the Foundation level (as defined by *Crossroads*).
- Mathematics and discipline-specific faculty members should both play a direct role in determining the curricula of such courses.
- As much as possible, the math needs of students should be met through projects and authentic applied problems.
- Courses should preserve mathematical integrity and promote critical thinking, logic, communication, and higher-order thinking skills.

AMATYC IMPACT: Improving Mathematical Prowess And College Teaching

Moderators: Mary Beth Orrange and

Nancy Sattler, Co-Chairs

8:00 pm - 8:30 pm

The third AMATYC standards document, *AMATYC IMPACT*, expands the existing standards. The original standards, presented in *Crossroads in Mathematics* and *Beyond Crossroads*, are just as relevant today as when they were developed. The goal of *AMATYC IMPACT* is to improve mathematics education in the first two years of college by presenting clear guidance of how to *IMPACT* the mathematical prowess of students. This guidance

is meant to inspire faculty, departments, institutions, and policymakers to examine, assess, and take action to improve every component of mathematics education in the first two years of college. The document will be voted on for approval at the Saturday afternoon Delegate Assembly. This open forum is an opportunity to discuss the document before the vote.

The Research in Mathematics Education for Two-Year Colleges

Thursday evening at 7:00 pm, join the Research in Mathematics Education for Two-Year Colleges Committee for talks focused on research related to topics of relevance to two-year faculty. The event will begin with a 50-minute keynote address, "A Case Study of Departmental Change," by Chris Rasmussen of San Diego State University. His talk will be followed by a series of 30-minute breakout talks.

Friday

Regional Meetings & Continental Breakfast

Get to know the people and activities in your region, and interact with your regional vice president on Friday at 7:45 am while enjoying a continental breakfast. Be sure to bring your ticket for the breakfast.

At the Regional Meeting, you can network with colleagues from colleges and AMATYC affiliates in your region while providing input on AMATYC matters. Take advantage of this opportunity to express your views to your state and affiliate delegates regarding Delegate Assembly issues. Your attendance at the meeting of your region is strongly encouraged.

Symposium: The Scholarship of Teaching and Learning (SoTL) in College Mathematics

The Research in Mathematics Education for Two-Year Colleges Committee is sponsoring this event beginning with a talk about



Trolley at the 12th St. Station/Courtesy of Joanne DiBona and www.SanDiego.org

“Exploring Teaching and Learning in College Mathematics,” followed by a workshop “Embarking on Inquiry in Your Classroom.” The second workshop “Moving from Reflective Teaching to Classroom Inquiry” will take place on Saturday.

Third National Developmental Math Summit: Looking Back, Moving Forward

On Friday at 1:45 pm, participants have the opportunity to dialogue, discuss, engage, and question national leaders in the field of developmental mathematics education. The experts representing multiple professional organizations and roles in community colleges will discuss outcomes from the National Developmental Math Summit 2016 and share preparations for the National Developmental Math Summit 2018 in Orlando.

Poster Session: “It’s a Prime Time for Posters”

Come meet with colleagues who are sharing their exciting ideas or reporting on their latest research projects in this year’s poster session on Friday afternoon from 1:45 pm - 3:45 pm. Browsing hours are Friday 11:00 am - 4:00 pm, but you will want to take advantage of the scheduled session to speak with the poster presenters.

Faculty Math League Competition

Participate in the 14th Annual Faculty Math League (FML) contest Friday, 2:55 pm - 3:45 pm. The FML is a competition based on the Student Math League contests sponsored by AMATYC. The twenty-question multiple choice exam covering precalculus mathematics will test your problem-solving skills. Compete for individual prizes as well as the traveling Regional Championship Trophy! Bring your calculator.

Academic Committee and ANet Meetings

AMATYC’s academic committees include Developmental Mathematics, Innovative Teaching and Learning, Mathematics and its Applications for Careers, Mathematics Intensive, Placement/Assessment, Research in Mathematics Education for Two-Year Colleges, Statistics, and Teacher Preparation.

San Diego will be the second conference appearance of the ANets (AMATYC Networks), groups focused on specific areas of interest to our members, including Adjunct Faculty Issues, Department/Division Leadership, International Mathematics, and Mathematics for Liberal Arts.

Take advantage of the meetings of these committees and ANets during their dedicated time on Friday afternoon at 4:00 pm. **Participation is open to all** and provides members with opportunities to learn more about an area of interest and share expertise with others. If you choose to become more involved in one of these groups, join their mailing list to keep up



USS Midway/Courtesy of Joanne DiBona and www.SanDiego.org

to date between conferences. Academic committees and ANets develop position statements, work on projects, and serve in an advisory role to the AMATYC Executive Board and the Delegate Assembly.

Saturday

Delegate Assembly

The Delegate Assembly will be held on Saturday afternoon at 3:45 pm, with delegates asked to be seated by 3:30 pm. The delegate packet will be made available online for review at www.amatyc.org on October 11, 2017. If you are a delegate and have difficulty accessing the packet, contact your regional vice president. If you have a question for the Delegate Assembly and cannot attend the conference, be sure to communicate with your regional vice president prior to the conference.

Members who are not delegates may attend the Delegate Assembly in a special seating section.

Exhibits Grand Opening and Dedicated Exhibit Times

The always exciting Grand Opening of the exhibit area will take place on Thursday afternoon from 4:30 pm until 7:00 pm. Explore the latest textbooks, videos, calculators, software, distance learning courseware, and much more. Meet the exhibitors while finding answers to questions about their new products in order to enter drawings for prizes. Check out which publisher is providing the best treats!

Take advantage of dedicated time to visit exhibitors. In addition to the Thursday evening Grand Opening, AMATYC is pleased to feature our exhibitors on Friday from 9:15 am to 10:15 am immediately after the Regional Continental Breakfast and Meetings. On Saturday the exhibitors will be featured from 10:00 am to 10:45 am. These dedicated times will allow you to visit the exhibits without missing sessions. Exhibitors are eager to meet you, discuss your needs, and dem-

onstrate products and services that can provide you with solutions to your classroom needs.

Exhibit Hours

Thursday 4:30 pm - 7:00 pm
 Friday 9:15 am - 12:35 pm
 and 1:25 pm - 5:00 pm
 Saturday 9:45 am - 1:00 pm
★Dedicated Times★
 Thursday 4:30 pm - 7:00 pm
 Friday 9:15 am - 10:15 am
 Saturday 10:00 am - 10:45 am

Note that the Exhibits are closed Friday 12:35 pm - 1:25 pm to allow our exhibitors to have this time for lunch.

Commercial Presentations

Several AMATYC exhibitors will conduct commercial presentations to highlight their products and services and train users of these products. These presentations will be located in regular session rooms during the conference. Titles, descriptions, and presenters will be included in the conference program. Don’t miss out on the opportunity to learn more about a product or service you have been considering or to learn about new products and services that are available to enhance your students’ learning and your teaching. In addition, some exhibitors will be offering small group training sessions within their booth. Check individual booths for times and titles of these training sessions.

General Information

Weather

Everyone loves the weather in San Diego! November is the sunniest month of the year with an average high temperature of 69 degrees and an average low of 54 degrees. The sunny days will often feel very warm, but the evenings cool off fast and you will want a jacket. Layers are a must in San Diego.



Hotel Del Coronado/Courtesy of Joanne DiBona and www.San Diego.org

Restaurants

You'll have no shortage of dining options in San Diego. On Harbor Island and a short walk from the hotel is The Boat House with fresh seafood; C Level Island Prime which has a little bit of everything from steaks to seafood; and Coasterra with a modern Mexican cuisine.

In the downtown San Diego Gaslamp District, you will find more restaurants than you can imagine. Some of our favorites include The Fish Market; The Field; The Strip Club (yes, it's a restaurant); Hodad's; and the Kebab Shop.

In Old Town you can enjoy Rockin' Baja Coastline Cantina; Old Town Public; Old Town Mexican Café; Jack & Giulio's Italian Restaurant; and Casa Guadalajara just to name a few.

Visit Little Italy, Hillcrest, or the University Heights area just a short distance from the hotel and downtown Gaslamp District. In addition, there are other great restaurants just a short Uber or Lyft ride from the hotel.

Whatever your tastes and budget, you will find it in San Diego. Be sure to check in the Hospitality Room for other ideas from the local committee and possible dinner outings.

Cultural Events and Day Outings

San Diego is a city of many adventures; mostly outdoor. Whether visiting the Gaslamp District, Old Town, Del Mar, La Jolla, or the beaches you will never be bored or lack in finding something to do.

Near the hotel, you can take one of many Harbor Cruises, including the San Diego SEAL (Sea and Land) Tour...which we call the "bus-boat" because it not only drives on land but goes into the water and becomes a boat. You will also find the Maritime Museum and USS *Midway* (an aircraft carrier).

Walk through Balboa Park and visit one of the many amazing museums. Some of our favorites are Fleet Science Center, Natural History Museum, Museum of Art, Air & Space Museum, and the Museum of Man. The World Famous San Diego Zoo is an absolute must visit if you have never been. In addition, you can catch a show at the Old Globe Theater.

Old Town San Diego, where San Diego was born, is another great place to walk around. There you will find many historic sites including the McCoy House, Casa de Estudillo, First Brick Courthouse, and a schoolhouse. Walk through the Presidio Park where the San Diego Presidio was located, and visit the Junipero Serra Museum. This is also where you can catch the Old Town Trolley Tour which has stops all over the city, including to Coronado, where you can get off and on the trolley all day for a complete city tour.

Did you bring the family? Plan a visit to Sea World, the San Diego Zoo, San Diego Zoo Safari Park, Legoland, Belmont Park, or take a daytrip to Disneyland and California Adventure which is only a 90-minute drive.

Don't forget the many beaches in San Diego where you can walk the boardwalk, try some surfing or boogie boarding, or just sit in the sand and soak up the sun. There is Ocean Beach, South Mission Beach, Mission Beach, Pacific Beach, La Jolla Shores, Torrey Pines State Park, and Coronado.

Speaking of Coronado, there are amazing restaurants and shopping along Orange Ave. And don't forget to visit the Hotel del Coronado; the history of that place will astound you.

Walking through La Jolla and Del Mar will amaze you, where there is tons of shopping and great restaurants.

Some of the places the locals really enjoy are the Point Loma tide pools and lighthouse, La Jolla Children's Pool, San Diego Mission de Alcala, and a walk through Sunset Cliffs or along the beach in Coronado.

Email/Communications

Complimentary WiFi is available in each guest room booked within the AMATYC block at the Sheraton or Hilton. Additionally, all meeting space will also be

equipped with WiFi! Bring your tablet/smart phone and take notes in the sessions then fill out the evaluation on the conference app. The entire hotel lobby and public areas are equipped with free wireless access and complimentary WiFi, PC workstations, and a printer are available in The Link.

Professional Networking/ Hospitality Room

Please join us in the Hospitality Room located in Marina 6 which has a patio and overlooks San Diego Bay. This will be a great place to visit current and former colleagues, meet new friends, explore new adventures with your San Diego hosts, and grab a few munchies! In addition, this year the Local Events Committee will be putting on some Wellness Activities. These will include walks along the bay, yoga or dance classes, lawn games, and many more fun activities. The members of the Local Events Committee hope you take advantage of all that San Diego has to offer, and we are here to help you find that perfect restaurant or entertainment venue you are looking for. Let us help you have a prime time while visiting America's Finest City!

Professional Networking/ Hospitality Room Hours

Wednesday 4:00 pm - 7:00 pm
 Thursday 9:00 am - 5:00 pm
 Friday 10:00 am - 5:00 pm
 Saturday 11:00 am - 5:00 pm

Orlando 2018

Program proposals to present in Orlando can be submitted at the AMATYC website, www.amatyc.org, beginning November 1, 2017. Mark your calendar **now** to go to the AMATYC website to submit your proposal. The deadline for submitting a proposal to present a session or workshop in Orlando is **February 1, 2018**.



COMMERCIAL PRESENTATIONS

These presentations are open to all registrants at no charge. All commercial presentations are listed in the Conference Program section according to their day and time.

McGraw-Hill Education

C8
Friday
10:00-11:15
Math Placement Success: Evaluating the Data of Multiple Measurers
John Hansen

Iowa Central CC has experience using a variety of measures for placing students into math courses. John Hansen, Department Coordinator, will share their placement story, the methods they explored, and the results that helped them choose ALEKS Placement, Preparation, and Learning (ALEKS PPL) for their math placement program.

C14
Friday
2:45-4:00
A Journey Through the Implementation of a Corequisite Course
Andrea Hendricks

The corequisite model is emerging across the nation. Come learn how one school, in their third year of corequisite courses, designed and implemented their Corequisite College Algebra course. Tools and resources, tips for success, and pitfalls will be shared.

Hawkes Learning is conducting the following commercial presentations – (C7, Friday, 10:00 am - 11:15 am) and (C10, Friday, 12:25 pm - 1:40 pm). The titles and descriptions will be included in the conference program.

Pearson Education

C1
Thursday
11:20-12:35
MyLab Math & MyLab Statistics: Skill Builder & Companion Study Plan Assignments
Diane Hollister

Modify your courses to include personalized learning tools; personalizing assignments results in individualized question sets to help students focus on difficult areas. Examine features of Skill Builder and Companion Study Plan Assignments to address students' skill needs. *Pearson Efficacy Implementation is authorized by IACET to offer CEUs for this program.*

C4
Thursday
1:40-2:55
Increase Student Engagement and Learning with Learning Catalytics
George Woodbury, Diane Hollister

Want to increase student engagement and learning? Learning Catalytics is a powerful tool for your class use whether you teach "traditional," flipped, or online classes! Experience the student view, learn tips for implementation, search existing questions, and create your own using this exciting resource for both MyLab and non-MyLab users!

C9
Friday
10:00-11:15
Flipping the Classroom with MyLab Statistics Interactive
Michael Sullivan

In Introductory Statistics, finding new ways to get students into the material is more important than ever. Using classroom time to immerse students with resources like Interactive Statistics Learning Catalytics and StatCrunch, the presenter will share ways to encourage students to interact with material outside of the classroom.

C12
Friday
12:25-1:40
Using Workspace to Unpack Students' Math Errors and Promote Reasoning
Ruthmae Sears, Caree Pinder

Workspace can be used to provide insight into students' mathematical thinking and misconceptions. This session will provide an overview of the features of Workspace and how it's used at the University of Florida. Also see common errors students make when communicating mathematics in Workspace.



Pacific Beach Sunset/Courtesy of Joanne DiBona and www.SanDiego.org

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On-site Conference Registration ♦ Nautilus Foyer (Marina Tower)

Wednesday, November 8 4:00 pm - 8:00 pm
 Thursday, November 9 7:00 am - 6:00 pm

Friday, November 10 7:00 am - 4:00 pm
 Saturday, November 11 7:00 am - 8:00 am
 Saturday, November 11 10:00 am - Noon