

American Mathematical Association of Two-Year Colleges

42nd AMATYC Annual Conference
Denver, Colorado
November 17 – 20, 2016

Keynote and Breakfast Speakers

Maria Andersen
Western Governors University
*Learning Math Is Not a
Spectator Sport*

Rick Cleary
Babson College
*What Every Math Teacher Needs
to Know About Statistics*

Featured Speakers

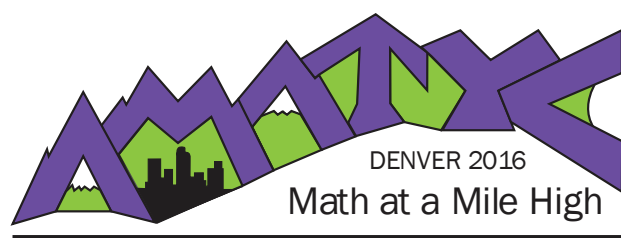
William Briggs
University of Colorado at Denver (retired)
Quantitative Literacy More Than Ever Before

Carol Jonas-Morrison
Pikes Peak CC
Teach Your Students Willpower

Sheraton Denver Downtown Hotel
1550 Court Place
Denver, CO 80202

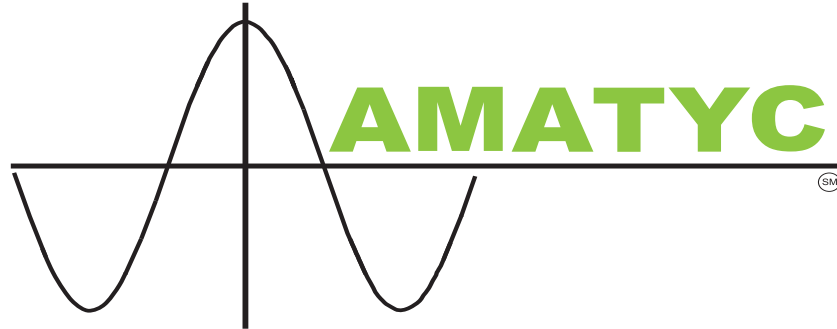
Reservations Website: www.starwoodmeeting.com/Book/AMATYC2016
Reservations: 1.888.627.8405 (mention AMATYC conference)

Hosted by ColoMATYC and the Central Region



**Register for the conference
online at www.amatyc.org**

**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

42nd Annual Conference * Denver, Colorado

KEYNOTE SPEAKERS



Thursday Opening Session

Maria Andersen
Learning Math Is Not a Spectator Sport

Thursday, November 17, 3:00 pm
Plaza Ballroom BCEF

Maria Andersen helps us open the 42nd annual meeting

sharing some of the latest research on highly effective learning experiences. Teaching math must be a delicate balance between boredom and frustration. Students want to be spoon-fed painless math lessons, but they must be appropriately challenged to learn. It's a conundrum. Faculty who attend this presentation will likely be permanently haunted by the research and find themselves highly motivated to change their classroom practices so that students learn more actively.

Andersen has written numerous articles for MAA FOCUS, Educause, and AMATYC publications. She was MichMATYC president from 2009-2011 and was the first AMATYC professional development coordinator. In the past five years she has given over 80 presentations at workshops, conferences, symposiums, retreats, and webinars in the United States, Canada, and Denmark. In 2013 Anderson received the Serious Games Student Choice Award. For 5 years, Andersen was the Director of an immersive week-long Math & Technology workshop that graduated over 150 community college math faculty to be more effective online instructors, mentors, and eLearning leaders.



Saturday Awards Breakfast Session

Rick Cleary
What Every Math Teacher Needs to Know About Statistics

Saturday, November 19
Plaza Ballroom BCEF
Breakfast* Served: 7:45 am-8:15 am
(*ticket required)

Program: 8:30 am-10:00 am

The 2016 AMATYC Awards Breakfast Speaker, Rick Cleary, suggests mathematics faculty often had inspiring mathematics teachers but remember their statistics courses much less fondly. This breakfast presentation will offer a way to think about what makes statistics, as a discipline, different than traditional mathematics. Cleary will provide a few simple to use demonstrations that can help put students at ease with the difficult topics of randomness, chance, and variation. These examples make excellent 'first week' activities which instructors can refer back to for the remainder of the semester.

Cleary is Professor and Chair in the Division of Mathematics and Science at Babson College in Wellesley, MA. He grew up in the Seaway section in Oneida, NY, and was an undergraduate at SUNY Oneonta. He has previously taught full time at Cornell University (where he earned his PhD), Bentley University, and Saint Michael's College in Vermont; and part time at Holyoke CC (MA), the University of Vermont, and Harvard University. He enjoys working on applied problems in mathematics and statistics, and has recently jointly authored papers with colleagues on diverse topics including failure times for hip replacements, fraud detection in accounting, assessment of creativity in marketing, and various questions in modeling sports outcomes.



2016 Mathematics Excellence Award Recipient Uri Treisman

Uri Treisman is professor of mathematics and of public affairs at The University of Texas at Austin, where he is the founder and director of the University's Charles A. Dana Center (www.utdanacenter.org).

Over the past 30 years Uri has served on numerous national commissions focused on strengthening American Education. He recently served on the STEM working group of the President's Council of Advisors on Science and Technology and on the 21st-Century Commission on the Future of Community Colleges. He is a Distinguished Senior Fellow at the Education Commission of the States.

Uri is a founding member of several influential groups focused on modernizing postsecondary mathematics education including Transforming Post-Secondary Education in Mathematics (TPSE Math: www.tpsemath.org) and Common Vision 2025. He is the founder of the New Mathways Project, a collaboration of all 50 Texas community college districts working on the redesign at scale of developmental mathematics education. He is a senior consultant to state mathematics task forces in twelve states. He serves as one of the senior advisor to Maryland's First in the World grant. He is a designated representative of the American Mathematical Society (AMS) to the American Association for the Advancement of Science (AAAS).

FEATURED SPEAKERS



Carol Jonas-Morrison

Teach Your Students Willpower

Thursday, November 17, 12:40 pm – 1:30 pm

Why is willpower such a struggle? Willpower is very often misunderstood. After an overview of the robust body of science on willpower, strategies proven to teach students how to increase their willpower and overcome procrastination will be shared by featured speaker Carol Jonas-Morrison.

Jonas-Morrison graduated with a bachelor's degree from Murdoch University, Western Australia. After moving to the United States several years later, she added a Bachelor of Science in Mathematics from Southern Oregon State University and a master's degree in mathematics from New Mexico Tech in 1992. She focused on the mathematics of neural networks, studying a mix of mathematics and computing.

From 1992 to 2000, Jonas-Morrison taught mathematics at San Juan College in Farmington, NM, and won the Faculty of the Year award in 1999. Jonas-Morrison was also a Computer Information Systems faculty member at Central New Mexico CC in Albuquerque, NM. She left full-time teaching to work at Intel Corporation as a Technical Marketing Engineer and manager where she worked on mobile platforms in the software side of the business.

Jonas-Morrison left Intel to become dean of the Math and Technology division of Pikes Peak CC (PPCC) in Colorado Springs, CO. Currently a self-described 'recovering division dean,' Jonas-Morrison has returned to the classroom after eight years and is a professor of mathematics at PPCC. She also serves on the board for the retirement system for public employees in the state of Colorado.



William Briggs

Quantitative Literacy More Than Ever Before

Saturday, November 19, 10:45 am – 11:35 am

Courses in quantitative literacy/reasoning (QL/QR) remain among the most important college courses. Arguably, the need for such courses is greater than ever before. In this presentation, featured speaker William Briggs hopes to reaffirm the necessity for departments to design, staff, and support such courses and renew enthusiasm for faculty to teach them. His talk is a retrospective of lessons learned after many years of teaching, promoting, and writing about QL/QR.

Briggs taught mathematics at all levels of the college curriculum for thirty years before retiring from the University of Colorado at Denver. A major interest during this time was the design and teaching of QL/QR courses. This interest led to the writing of a textbook in QL/QR, as well as a textbook in calculus.

After receiving his MS and PhD in Applied Mathematics from Harvard, Briggs was a Visiting Assistant Professor at the University of California, San Diego, before joining the Department of Mathematics and Computer Science at Clarkson University. From there he taught at the Department of Mathematics at the University of Colorado at Denver until retirement, spending one year in Dublin, Ireland, as a Visiting Professor. Briggs has been awarded numerous service and teaching awards over the years and was named a Fulbright Scholar at Dublin City University.

Presentations Sponsored by the Joint Committee on Women in the Mathematical Sciences

The New Brand of Powerful **Jessica Rockswold**

Friday, November 18, 12:35 pm – 1:25 pm

Jessica Rockswold has studied mathematics, engineering, and economics, receiving a degree in economics from Northwestern University. She has worked on a number of developmental and precalculus textbooks and has volunteered for Women-Venture, an organization supporting entrepreneurship and job development for women. From these experiences, and more, she will share on the opportunities of women to rise to powerful positions as the world demands new kinds of leadership skills. STEM education can further enliven the talents and motivations of women, unleashing ways to not only become successful leaders, but to also impact areas about which they care.

Going Forward: Increasing Diversity in AMATYC and its Leadership **Marilyn Mays and Wade Ellis**

Friday, November 18, 1:45 pm – 3:45 pm

Marilyn Mays, President of AMATYC, 1993-95, founded the AMATYC Committee for Equal Opportunity in Mathematics and chaired it for six years. She has served in the Dallas County CC District for over 42 years. Wade Ellis has held leadership positions in many mathematical organizations and coauthored several textbooks. Marilyn and Wade will provide an overview of current participation in mathematics and mathematics education by underrepresented minorities and women and their participation in AMATYC and its leadership. Workshop participants will discuss barriers to greater participation at all levels in AMATYC and suggest efforts to overcome them.

CONFERENCE PROGRAM



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 below 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: S005, S007, S012, S014, S028, S040, S041, S059, S061, S062, S067, S069, S081, S085, S088, S096, S097, S108, S110, S152, S157, S160, S168, S169, and W04.

Thursday 8:00 am - 8:50 am

- S001 Let's Talk! Ten (or More) Intriguing Questions for Math Teachers (IS, G, TP)**
Dennis Runde
- S002 The Calculus of Corvettes (MI, IS, G)**
Jaclyn M. Murawska, Keith Nabb
- S003 Implementing Creative Real-World Projects in Liberal Arts Math Courses (GE, DL, PA)**
Mark R. Marino, Margie Dunn
- S004 Thinking About Offering Algebraic Literacy? Join the Group! (D, CR)**
Brian Mercer, Dave Sobbecki
- S005 Mile High Conferences and Professional Development with No Budgets (DI, IT, G)**
Peg Hohensee, Leslie Johnson
- S006 The Struggle to Create Accessible Math Material for the Visually Impaired Student (G, IS, IT)**
Mary Monroe-Ellis, Susan Mosteller
- S007 Cool Calculus Classroom (IS, IT, DL)**
Heather Albrecht
- S008 Inquiry-Based Teaching Strategies that Succeed with Developmental Math (IS)**
J. Donato Fortin
- S009 Mile High in Denver: Baseball Statistics of the Rockies (GE, ST, G)**
Steve Krevisky
- S010 Bobo Numbers, Bobbers, and Bears – Experiences in Undergraduate Research (MI, R, G)**
Steve Kifowit

- S011 How Random Is Your Quarter? The Past and Present of Uncertainty (ST, MI, H)**
Richard Decker
- S012 Collaboration and Group Work for Online (and Face-to-Face) Classes (DL, IT, G)**
Evan Evans
- S013 AMATYC 101 (G)**
Nancy Rivers, Liz Hylton

Thursday 9:10 am - 10:00 am

- S014 Make Engagement Happen (IT, G, IS)**
Denise Nunley, Alicia Collins
- S015 Liars Will Figure: Illuminating Numerical Deception (GE)**
Marcus Jorgensen
- S016 Addressing Poverty and Inequity in the Math Classroom (IS, TP, IT)**
Melonie Rasmussen
- S017 Running a Mile with Math Caching (IS, G)**
Cindy Moore, Tammy Sullivan
- S018 Supporting Students, Demanding Effort, Seeing Success (IS, IT)**
Diane Valade
- S019 Moving Mountains: A Networked Improvement Community Stimulates Change (CR, PA, D)**
Scott Strother, Mike Sieve, Heather Howington
- S020 The Mythical Relationship Between a Librarian and a Mathematician (IS, MI, R)**
Brandie Bidy, Melissa D'Agostino

Denver 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 17

- S021 **Responding to Disruptive Student Behavior: Math Faculty Challenges (IS, DI, TP)**
Lalu Simcik
- S022 **AMATYC's FutureGrant Program: Guest Grant Seminar Series (G, IT)**
John Pazdar, Nancy Sattler
- S023 **Incorporating Study Skills into Developmental Math Classes (D)**
Jessica Bernards, Mark DeSmet
- S024 **Author! Author! (G)**
George Alexander, Johanna Debrecht
- S026 **Inside Edition 2017: How to Write a Winning Proposal (G)**
Judy Williams, Darlene Winnington, Honey Kirk
- S027 **Math Lit and Pathways: Five Years Later (D, CR, G)**
Kathleen Almy, Heather Foes
- S028 **Motivating Student Learning Through Sports-Related Math Questions (G)**
Anne Triplett
- S029 **We Should Not Call It the Pythagorean Theorem! (H, MI, G)**
Eric Hutchinson, Aminul KM

Thursday 9:10 am - 11:05 am

Themed Session

T1 What's Up in the Placement & Assessment Corner?

- T1A **Transitioning to Multiple Measures (PA)**
Jeff Thies
- T1B **Multiple Measures: Placement with Remediation (PA)**
Austina Fong
- T1C **Using High School GPA to Predict College Success (PA)**
Kenneth Beynon
- T1D **Insights and Experiences of Community College Mathematics Placement (PA)**
Rachel Bates
- T1E **Is Common Core Affecting Positive Change in Placement Exam Results? (PA)**
Christine Mirbaha
- T1F **Current California Trends in Placement (PA)**
John Kawai

Themed Session

T2 Teaching and Learning in Precalculus, Calculus, and Beyond

- T2A **Developing Students' Intuition with Physical Models (MI)**
Dan Rockwell
- T2B **Algebra Clinic and Other Ways to Help Underprepared Calculus Students (MI)**
Helena Mirtova
- T2C **Why Does the Pendulum Clock Keep Accurate Time? (MI)**
Clarence V. Baney
- T2D **Teacher Pension Crisis in Your State? (MI)**
Linda Blanco
- T2E **Derivative and Antiderivative Activities for Business Calculus (MI)**
Jay Malmstrom
- T2F **Research Opportunities for STEM Students (MI)**
Anne Flesher

Thursday 10:20 am - 11:10 am

- S025 **Learning to Learn in Developmental Mathematics Courses (D, IS, CR)**
Wade Ellis

- S030 **Strengthening Student Success Through Developmental Redesign (CR, D, IS)**
Lynn Marecek, Marty Romero, Lisa McKowan-Bourguignon
- S031 **Let's Share "Apps"! (IT, IS, DL)**
Andreana M. Grimaldo
- S032 **Supporting Prospective Teachers' Learning: What's the Problem Here? (TP, IS)**
Carol Howald
- S033 **Factoring with a Cause: Service Learning in Mathematics (G)**
Lindsey Small, Holly Ashton, Robin Schofield, Jo Ellen Becco
- S034 **Helping Students Learn to Think Like a Statistician (ST)**
Roxy Peck
- S035 **Choosing the Lesser Evil: Helping Students Understand Voting Systems (GE)**
Curtis Mitchell

Thursday 11:30 am - 12:20 pm

- S036 **Incorporating Discovery in Developmental Mathematics (D, IS, IT)**
George Woodbury
- S037 **Have Students Write Memos (Word Limit, Unlimited Pictures) in Calculus (MI, PA, IS)**
Rob Eby
- S038 **Promoting Mathematical Thinking with Low Floor, High Ceiling Problems (GE, TP, IS)**
Kendall Jacobs, Ashley Johnson
- S039 **Strategies to Increase and Accelerate Developmental Student Success (D, IS)**
Stephanie Krehl
- S040 **It's Five O'clock Somewhere (IT, DL, G)**
Judy Fethe, Susan Mosteller
- S041 **Making Resources Available and Accessible to All Students (G, IS, IT)**
Michelle Lis
- S042 **Learning Algebra in the Age of Free Symbol Manipulators (IT, IS)**
H. Michael Lueke

Thursday, November 17

- S043 **Mathematical Problem Solving and Active Learning: What, Why, and How (IS, MI)**
Kira Heater
- S044 **To Quote Doc Brown, “Roads? Where We’re Going We Don’t Need Roads.” (MI, IS, G)**
Trey Cox
- S045 **What’s the “Big” Idea? (IS, MI, CR)**
Dennis Ebersole
- S046 **A Sense of Belonging Can Help Students Reach the Summit! (IS, D)**
Heather Howington, Mike Sieve
- S047 **Introducing Fermi Problems and the Art of Reckoning in Statistics (ST, MI, G)**
Alexander Atwood
- S048 **Building Bridges: College Algebra to Calculus (IS)**
Karen Summerson, Ivana Seligova
- Thursday 12:40 pm - 1:30 pm**
- S049 **High Quality OER Textbooks and Online Materials for Precalculus (CR, MI, G)**
Ruth Trygstad
- S050 **Challenging and Exciting Students Through Math Competitions (G, MI, DI)**
Cathy Panik, Mary Beth Headlee
- S051 **Differential Equations, Let’s Get This Party Started! (MI, IS, IT)**
Beth Tsai
- S052 **Camera Ready: How to Guide the Problem Solving Habits of Students (IS, TP)**
James Vicich, LeeAnna Misterek, Sue Steele
- S053 **Designing an Online Math Literacy Course Using Free Materials (DL, D, IS)**
David Lippman
- S054 **Models for Managing Math Anxiety (IS, TP, G)**
Cheryl Ooten
- S055 **Teach Your Students Willpower (G, IS)**
Carol Jonas-Morrison
- S056 **Team Virginia - Faculty Pave the Way for Student Success! (CR, PA, D)**
Patricia Parker
- S057 **Teaching Styles in the Corequisite Mathematics Classroom (IS, D, TP)**
Becky Moening, Monika Champion
- S058 **Liven Up Your Classroom with Relevant and Engaging Activities (GE, IS, ST)**
Randy Gallaher, Kevin Bodden
- S059 **Open Calculus: Reducing Costs, Not the Learning (CR, IS, IT)**
Phillip G. Clark, James Sousa
- S060 **Environmental Initiative and Mathematics (GE, D, GC)**
Ben Moulton, Colleen Bye
- Thursday 12:40 pm - 2:40 pm**
- Q1 **Chairs’ Colloquium (DI)**
Sean Simpson, Christine Mirbaha
- Thursday 1:40 pm - 2:55 pm**
- C5 **Pearson Education: Activities that Enhance the Conceptual Understanding of Statistics**
Michael Sullivan III
- Thursday 1:50 pm - 2:40 pm**
- S061 **Engaging Students: From High School to Community College (IS, CR)**
James (Jay) Martin, Julia Smith
- S062 **Experience Math Using Your Sensors (IT, G)**
Julie Phelps, Jolene Rhodes
- S063 **The New Sensation That’s Sweeping the Nation: Quantitative Reasoning (GE, CR, IS)**
Dave Sobecki
- S064 **Optimizing Developmental Math Through Divergent Curriculum Paths (CR, D)**
Erin Wenner, Laura VanDeKop
- S065 **The MathWorld Concept Can Help Anyone Pass Math (IS, D)**
Robert D. Walling
- S066 **A Mile High Professional Development Experience from AMATYC! (G)**
Lisa Feinman, Julie Gunkelman
- S067 **The Effects of a Varied Method of Instruction on Student Outcomes (D, R, IS)**
Kevin McCandless
- S068 **Looking High and Low to Integrate Rational Functions (MI)**
Diane Koenig
- S069 **Venn Diagrams and Binary Numbers: A Logical Marriage (GE, IT)**
Lisa Rombes
- S070 **Mathematical Modeling: Just What Is It? (IS, TP, GE)**
Judy Werner, Mike Long
- S071 **95% Success - Yes You Can! (DL, CR)**
Toni Fountain, Susan Russe
- S072 **Developing Understanding of Rate Relationships (R, D, IS)**
Megan Breit-Goodwin
- S073 **Affiliate Sharing Session (G)**
Sarah Jackson, Glynis Mullins

Thursday 3:00 pm - 4:30 pm

Opening General Session

Remarks by

Jane D. Tanner, AMATYC President

Speaker: Maria Andersen

Learning Math Is Not a Spectator Sport



Thursday 4:30 pm - 7:00 pm

**Grand Opening of the
AMATYC Exhibits**



Thursday 7:00 pm - 8:00 pm

AMATYC Forums

7:00 pm - 7:30 pm

- ◆ **Input Hearing: Mathematics for Students in Two-Year Terminal Programs**
Moderator: Stefan Baratto, Chair,
Mathematics and its Applications for Careers Committee

7:30 pm - 8:00 pm

- ◆ **Beyond Crossroads Revision Project**
Moderators: Nancy Sattler, Past President, and
Mary Beth Orrange



Thursday 7:00 pm - 9:50 pm

Research Session

Mathematics education researchers will report on preliminary research in which they are engaged and provide opportunities for significant discussion with attendees.

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 23.

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 McGraw-Hill Education: Supporting Students Through Corequisite Courses
Andrea Hendricks

C8 Maplesoft
Check the conference program for complete details.

C9 Hawkes Learning
Check the conference program for complete details.

Friday 10:15 am - 11:05 am

S074 Classroom Environments that Promote Student Engagement in Learning Algebra (MI, IS)
Christine Thomas, Laurn R. Jordan

S075 Teaching Introductory Statistics: GAISEing into the Future (ST)
Allan J. Rossman

S076 Analytic Geometry: Then and Now (H, GE, G)
David Price, Elise Price

S077 Elevating Expectations (MI, IS)
Vanessa L. Coffelt

S078 Emporiums, Redesigns, Pathways, and Calculators (CR)
Sybil Brown, Judy Stimpson, Alissa Sustarsic, Natalie Souders

S079 Mistakes, Mistakes Everywhere (G, GE)
Keith Nabb

S080 Reading + Math = Miles Beyond Traditional Understanding (D, GE, ST)
Susan M. Johnson, Kendall Wahba

**Wireless High-Speed
Internet Service (WiFi)**

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

Friday, November 18

- S081 **There's a Good Math Problem in There! (IS)**
Pat Riley
- S082 **Revising the Standards: The Vision of *Crossroads* (G)**
Mary Beth Orrange
- S083 **Pretests and Advising: Improving Existing Institutional Placement (PA, D, R)**
Amy Barnsley
- S084 **Shortening the Path Through Developmental Math (CR, D)**
Rebecca Diischer, Carri Hales
- S085 **Transforming Transformations to a New Peak (MI, IS, IT)**
Luke Walsh
- S089 **Mile High with ANets: How You Can Benefit from This! (GC, DI, GE)**
Steve Krevisky, Christine Mirbaha, Fary Sami, Judy King
- S090 **The Struggle Is Real - A Journey to the Ideal Corequisite Course (CR, D, IS)**
Heidi Barrett, Danielle Staples
- S091 **Motivating Students to Learn Infinite Series (MI, R)**
Robert Cappetta
- S092 **Visual Math: How a Blind Student Can Open Your Eyes to Mathematics (IS)**
Dorcas Parson
- S093 **Instructional Strategies to Facilitate Social Presence Online (DL, IS, IT)**
Sonia Ford, Kyle Kundomal, Lori Thomas
- S094 **Uncommon Application Problems (MI, D)**
Melinda Fox
- S095 **Math Literacy and Community Building: A Bold New Future (IS, GE, CR)**
Benjamin Aschenbrenner
- S096 **How Effective Are Your Final Exam Reviews? (IS, G)**
John Salem, Marjorie Thrall Moller
- W01 **Assessing Conceptual Comprehension in Statistics and Applied Calculus (MI, ST, IS)**
Chris Oehrlein

Friday 10:15 am - 12:15 pm

Friday 10:30 am - 11:45 am and 2:00 pm - 4:45 pm

Product Presentations by AMATYC Exhibitors

Exhibitors will conduct 30-minute product presentations in the Exhibits Area. The titles, descriptions, and speakers will be given in the conference program and displayed in the Exhibit Hall. Check which companies will be presenting and which new products will be demonstrated. Plan to attend one or all.

Friday 11:25 am - 12:15 pm

- S087 **Mile High MINTS: Math Interactive Notebook Teaching Strategies (IS, G, D)**
Sylvia P. San Pedro, Christina Leone
- S088 **What Is the Latest Thinking on the High School to College Transition? (CR, GC, PA)**
Gregory D. Foley
- W02 **Intro Stats Activities Centered Around the New GAISE Recommendations (ST)**
Roxy Peck, Robert Gould, Michael A. Posner
- C10 **WebAssign: Discover WebAssign's New Student-Paced Course Model**
Katie Droskiewicz
- C11 **Pearson Education: MyMathLab & MyStatLab: Motivating Students with Learning Catalytics**
Diane Hollister
- C12 **Hawkes Learning**
Check the conference program for complete details.

Friday 11:25 am - 1:25 pm

Friday 12:25 pm - 1:40 pm

Denver Program Key

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Friday, November 18

Friday 12:35 pm - 1:25 pm

- S097 **Using 3D Printing to Enhance the Learning of Calculus (IT, MI, CR)**
Jing Wang
- S098 **Motivating Mathematical Ideas Using Sitcoms and Movies (IS, G, MI)**
Scott Adamson
- S099 **The New Brand of Powerful (G, R)**
Jessica Rockswold
- S100 **Placement and Assessment Round Table (PA, D, DL)**
Behnaz Rouhani
- S101 **Hands-on Developmental Math Activities to Take Home (D, G)**
Christopher King, Jennifer Gorman
- S102 **Algebraic Literacy: A Bridge to Somewhere (the STEM Path) (D, CR, MI)**
Jack Rotman
- S103 **An Innovative Course Design to Accelerate Completion for Repeaters (D, G)**
Neeraj Sharma, Cristina Voisei
- S104 **1+1= Many: How Service Learning in Math Classes Changes Multiple Lives (G, IS)**
Veon Stewart, Kendra Van Houten
- S105 **Active Learning and Engagement (IS, IT, DL)**
Eddie Tchertchian, Fred Feldon
- S106 **Bringing Non-STEM to New Heights (CR, D, GE)**
Juli Rognlie, Amanda Blaker
- S107 **Leadership Tools to Guide Mathematics Educators in the Digital Age (IT, G)**
John W. Staley
- S108 **Teaching Future Teachers Through Engaging Fun Math Activities! (TP, IS, D)**
Leticia Escobar

Friday 1:45 pm - 2:35 pm

- S109 **Scaling a Successful Corequisite Model into Additional Math Pathways (CR, GE, D)**
Garry L. Sigler, Shelley K. Parks, Heather A. Turner
- S110 **Personally Authentic Projects and Problems for College Mathematics (MI, R, ST)**
Lauretta Garrett, Mohammed Qazi, Li Huang, Maria Calhoun Charleton
- S111 **Make it Stick: Strategies to Help Students Retain What You're Teaching (IS, G, R)**
Andrea Hendricks, Todd Hendricks
- S112 **Lessons Learned from Learners Around the World (GC, G)**
Kathryn Kozak, Stephen Krevisky, Najat Baji, Barbara Leitherer, Victor Odafe

- S113 **The Role of Functions in Prestatistics (ST, D, CR)**
Don Davis
- S114 **Applications for Multivariable Functions? 2YC Students? Oh Yeah!!! (G, CR, GE)**
Stefan Baratto, Jeff Herrin
- S115 **Mathemagic in OpArt: Now You See it, Now You Don't (GE, G, D)**
Steven Zollinger
- S116 **Getting Real About Mathematics: Does Learning Leave the Classroom? (R, G)**
AJ Stachelek
- S117 **There Must be a Better Way to Vote! (GE, G, D)**
Tom Pirnot
- S118 **Precalculus Top Five List, Challenges from Differential Equations (MI, DI, G)**
Don Hickehthier
- S119 **Best Fit Pathway for Developmental Math Project: Results & Scaling Up (CR, D, IS)**
Jennifer LaRose, Deborah Zopf, Michael Zalzali, Nasser Beidoun, Nahla Haidar
- S120 **Textbook DJ: Remixing/Writing an Open Textbook (CR, GE, IT)**
Josiah Hartley, Evan Evans, Larry Huff, Val Lochman

Friday 1:45 pm - 3:45 pm

- PS1 **AMATYC Poster Session: Raising Your Classroom to New Heights (See page 10 for a list of posters.)**
- W03 **Going Forward: Increasing Diversity in AMATYC and its Leadership. (G, GC)**
Marilyn Mays, Wade Ellis

Friday 2:45 pm - 4:00 pm

- C13 **McGraw-Hill Education: Finally! A Curriculum that Works for Non-STEM Students!**
Dave Sobecki, Brian Mercer
- C14 **Pearson Education: MyMathLab & MyStatLab: Workspace Assignments and Interactive Courses**
Diane Hollister
- C15 **WebAssign: Create Your Own Questions in WebAssign**
Katie Droskiewicz, Katie Fowler

Friday 2:55 pm - 3:45 pm

- S121 **Mixing Solutions (IS, G)**
Shane Tang
- S122 **Should There be an Algebra Course for Non-STEM Majors? (CR, G)**
Rob Farinelli
- S123 **Statistics Bests (ST, G, IS)**
Marty Triola

Friday, November 18

- S124 **Placement and Acceleration: Start Smart and Plan for Success (PA, DI, D)**
Patty Amick, Cheryl Hawkins
- S125 **Maintaining Rigor Within Developmental Mathematics Reform Efforts (CR, D, IS)**
Rebecca Hartzler, Frank Savina, Suzanne Dorée
- S126 **Does Elementary Algebra Really Prepare Students for Liberal Arts Math? (D, CR, R)**
Lori Austin
- S127 **Using Singaporean Models to Develop Understanding (TP, D, IS)**
Meg Moss, Alice Ho
- S128 **Practical Origami Nanotube Construction Techniques (G, MI)**
David Redman
- S129 **Group Work: Use it in Different Courses, Formats, and Times (IS, D)**
Kelly Kohlmetz
- S130 **Phoenix Numbers (MI, G)**
Walter Kehowski
- S131 **Faculty Math League Contest (MI)**
Steve Blasberg, Steve Hundert
- S132 **Online Collaboration: Lessons Learned in Revising Beyond Crossroads (DI, IT)**
David Graser, Evan Evans

Committee/ANets Meetings

Friday 4:00 pm - 5:00 pm

ANets

Adjunct Faculty Issues
Division/Department Leadership
International Mathematics Education
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/College Mathematics
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 on Friday and Saturday for conversations among colleagues. In Denver, you can sign up Wednesday in the registration area for a time when you would like to meet colleagues in Governor's Square 15 on the Plaza Building Concourse Level of the Sheraton Denver Downtown Hotel. 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 Governor's Square 15 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.



Union Station/Courtesy of RTD and VISIT DENVER



Civic Center Park/Courtesy of VISIT DENVER

POSTER SESSION

Friday, November 18 ♦ 1:45 pm - 3:45 pm
Check the Conference Program for descriptions.

- | | | | | | |
|-------|---|------|---|------|--|
| PS01 | Allowing a Space for Women in Mathematics (G, DI)
Damien Adams | PS14 | To STEM or Not to STEM, that Is the Question (CR, GE, ST)
Kelli Hammer, Joyce Nemeth | PS29 | Mathematizing the Subway: An Algebraic Application (D, CR, GC)
AJ Stachelek |
| PS02A | Prerequisite Skills Checks to Improve Student Success in Calculus 1 (MI)
Aisha Arroyo, Karina Aliaga | PS15 | Creating a Culture of Perseverance (R, IS)
Jessica Hoppe | PS30 | Transforming Education in Math Through Open Educational Resources (IT, CR, DL)
Peter Surgent, Danielle Truszkowski |
| PS02B | Prerequisite Skills Checks to Improve Student Success in Calculus 2 (MI)
Meghan VanderMale, Kyle Knee | PS16 | Conquering the Google Apps Mountain: Gmail, Hangouts, Calendar, & Drive (IT, DL, DI)
Leslie Johnson, Lea Rosenberry | PS31 | Contextualizing a Math Course for OAR Technical Diploma Programs (D, CR)
Turi Suski |
| PS02C | Results and Teaching Implications of Calculus Skills Checks (R, MI, PA)
Zachary Beamer | PS17 | Sampling Distributions for Small Samples (ST, IT, R)
Paul Kinion | PS32 | Calculus Projects (MI)
Pamini Thangarajah, Petr Zizler |
| PS03 | Increasing Accessibility for All Online Students (DL, IS, CR)
Donna Bassett, Deborah Miles | PS18 | Computer Modeling and the Mathematics of Cave Surveying (MI, IT)
Jason Lachniet | PS33 | Remedial Pathway (D, CR, PA)
Krishna Thapa Magar |
| PS04 | Targeted Test Questions (IS, MI)
Andrew Beiderman | PS19 | Reflection and Revision in Intermediate Algebra: Research and Practice (D, IS, R)
Mara Landers | PS34 | Adventures in Flipping (IS)
Vicki Todd |
| PS05 | Increasing Student Achievement and Participation in Statistics (IS, CR, ST)
Jordan Bertke | PS20 | Extra Credit – Will It Make Students Go the Extra Mile? (IS)
James Lee | PS35 | Teaching Developmental Math in the Nation's Largest Computer Lab (CR, D, IT)
Anne Praderas Vance |
| PS06 | Student-Directed & Incentive-Based Motivation for Self-Paced Algebra (CR, IS)
Daniel Bielskie | PS21 | Grading Written Work in an Online Class (DL, IT, IS)
Xiaoying Lin | PS36 | Student Error Analysis (IS, G)
Sherri Warren, Suzanne Lavertu |
| PS07 | Fostering Academic Independence Through an Exam Study Template (IS, MI, G)
Lisa Blaylock | PS22 | Two-Year College Mathematics: A Gatekeeper or a Gateway? (R, PA, CR)
Sandi Mills, Gregory Foley | PS37 | Ready or Not, Get Your Math! The Search for a Corequisite Model (CR, D)
Elizabeth Weaver, Connie Blalock |
| PS08 | Math Journals! (IS, G)
Lawrence Choraszewski | PS23 | Learning Mathematics Through Current Global Issues (GC, MI, ST)
Rupa Mitra, Shila Narain | PS38 | Student-Made Interactive Learning with Educational Songs in Statistics (ST, IT, R)
John Weber |
| PS09 | Disappearing Students in Developmental Math Classes (D, IS)
Kara Cook | PS24 | Students Have Fun Rolling a Die to Discover the Central Limit Theorem (ST, MI, IT)
Kathleen Mittag, Linda Zientek | PS39 | Using Group Work to Enhance Student Learning (G, IS, MI)
John A. Calhoun, Nikki Williams |
| PS10 | Promoting Student Retention Through Positive Relationships (G, DI)
Bethany Corley | PS25 | Incorporating Number Sense Topics in Algebra Classes (D, IS, G)
Lingli Ni | PS40 | Evaluating Virtual Classroom Performance to Enrich Student Success (DI, IT, G)
Nikki Williams |
| PS11 | Addressing Motivation in Elementary Algebra Through Contextualization (D, IS, G)
Michael Davis | PS26 | Human Cannonballs & Evil Geniuses: Enhancing Online Discussions (DL, IS, G)
Lea Rosenberry, Tami Tacker | PS41 | Aha! Sigma (MI, G, H)
Tityik Wong |
| PS12 | Course Placement Using Multiple Measures with Remediation (PA)
Austina Fong | PS27 | Improving Study Skills by Identifying and Learning from Mistakes (IS)
Kim Schroeder | PS42 | Finding Real Life Applications for Liberal Arts Math Students (GE, CR)
Kathleen Yan |
| PS13 | Modeling Activities for Introductory Statistics Courses (ST, IS, R)
Shweta Gupta | PS28 | Understanding Exam Anxiety (IS, G)
Gabriela Sprague, Sally Mulvey | PS43 | Ohio Mathematics Initiative: Revisioning Post-Secondary Mathematics (G, GE)
Michelle Younker, Michelle White |
| | | | | PS44 | Promoting Discourse and Collaboration in Developmental Mathematics (D, CR, R)
Fay Zenigami, Linda Venenciano |

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: Rick Cleary

*What Every Math Teacher Needs
to Know About Statistics*



Saturday 10:00 am - 10:45 am

Dedicated Exhibit Time

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

Saturday 10:30 am - 11:45 am

C17 **Pearson Education: MyMathLab & MyStatLab: Skill Builder and Integrated Review Courses**
Diane Hollister

C18 **WebAssign: Effective Student Placement**
Jenn Ferralli

Saturday 10:45 am - 11:35 am

S133 **Prestatistics: Acceleration and New Hope for Non-STEM Majors (CR, D, ST)**
Jay Lehmann

S134 **It's Not Class, It's Not Tutoring - It's Power Math Camp! (D, PA, IS)**
Shannon Ruth, Rachel DeAlejandro

S135 **Quantitative Literacy More Than Ever Before (G, CR, D)**
William Briggs

S136 **Teaching Undergraduate Mathematics Using Primary Source Projects (H, IS, CR)**
Diana White, Janet Heine Barnett

S137 **Polynomials, Roots, and Critical Points: A Complex Relationship (MI, IT, G)**
Eric Schulz, Julianne Sachs

S138 **Number Stories of Long Ago (H, TP, G)**
Janet Teegarden

S139 **Share Your Classroom Ideas for Teacher Preparation Courses (TP)**
Andy D. Jones

S140 **Achieving Mile High Success Through Virtual Tutoring and Instruction (DI, IT, DL)**
Kirk Bradley, Michael Johnston

S141 **Building Discourse to Foster Equity and Rigor in Mathematics (IS, TP)**
Diane Kinch

S142 **Are Your Students Ready for a High Stakes Final in Elementary Algebra? (D, IS)**
Leonid Khazanov, Fred Peskoff

S143 **Save a Semester - Save a Future (D, CR, G)**
Edie Carter, Gale Brewer, Gretta Johnson, Karen White

S144 **Win, Win, Win, Win (ST, R)**
Larry Danforth, Joel LaLone

Saturday 10:45 am - 12:45 pm

Committee Meeting

2017 Conference Planning

Saturday 11:55 am - 12:45 pm

S145 **Who is NADE? What is the NADE Accreditation Commission? (D, CR)**
Jane A. Neuburger, Annette Cook

S146 **Increasing Student Preparation and Engagement in Intro Stats Class (IS, ST)**
Jonathan Bodrero

S147 **Removing Barriers to Success in Front-Door Math Courses (R, IS, TP)**
Julie Phelps, Deborah Howard, Maryke Lee, Jeff Kosovich, Chris S. Hulleman

S148 **From Bricks to Clicks: Transitioning Your Face-to-Face Class Online (DL, IS, TP)**
Tami Tacker, Lea Rosenberry

S149 **Beyond Newton & Leibniz: The Making of Modern Calculus (H, MI, G)**
Anthony Piccolino

S150 **Contextualizing Business Statistics (CR, ST, IS)**
Elizabeth Betzel, Karen Starin

S151 **Virtual Manipulatives for Online & On-Ground Learning (IT, IS, TP)**
Neil Starr, Jonathan Martin

S152 **OER from Beginning Algebra to Precalculus and Statistics (IT, DL, CR)**
Sophia Georgiakaki

S153 **Math Intensive Sharing Session (MI)**
Scott L. Peterson, Robert Cappetta, Sandra Poinsett

S154 **Mathematics Outside the Classroom – Students' Research Projects (IS, R)**
Christopher Walker, Jack Bennett, Ryan Petitfils

S155 **Class Prep - How to Free Up Class Time for Active Learning (CR, IS, D)**
Jennifer Loseke

Saturday, November 19

S156 **You Really Have Flipped! Active Learning at its Best (CR, IS, MI)**

Shawna Haider

Saturday 1:05 pm - 1:55 pm

S157 **Real-World Projects for Precalculus and Calculus (MI)**

Cathey Jordan, Mary D. Pearce

S158 **Integrating K-12 Instructional Best Practices into Precollege Classes (D, CR)**

Megan Luce, Dawn Draus, Erin Schoenlein, Bill Moore

S159 **Mathematical Card Tricks (G, GE)**

Francis Edward Su

S160 **Flipped - Now What Happens in Class? (D, IS, CR)**

Leah Rineck

S161 **The Winds of Change – Finding the Right Direction for All Students (CR, IS, GC)**

LuAnn Walton, R. Nicole Benton

S162 **Favorite Tech Tools: Engaging Students in Every Mathematics Class (IT, DL, G)**

Jennifer Applebee, Kathleen Shay

S163 **Developing an Accessible and Engaging Online Statistics Course (ST, DL, IT)**

Mary Elizabeth Gore, Cristina Voisei

S164 **A Discovery/Project-Based Mathematics for Teachers Redesign (TP, CR, IS)**

Mike Long

S165 **Connecting Curriculum to Community: Preparing Future Teachers (TP, IS, G)**

Stephanie Goldenberg, Amber Rust

S166 **Getting Started – Base Camp for the New ANet for Adjunct Faculty Issues (DI)**

Judy King, Judy Giffin

S167 **The Gini Index: Measuring Income Inequality Using Applied Calculus (MI, GC, G)**

Zachary Beamer

Saturday 1:05 pm - 3:05 pm

W04 **Save Students Thousands with OER Resources (IT, DL, IS)**

Cathleen Rossman, Michael Wilkins, Cheryl Knight

Saturday 2:15 pm - 3:05 pm

S168 **Math Online: How to Help Students ‘See’ Math When They Can’t See You! (DL, GE, TP)**

Peg Pankowski, Kathy Crooks

S169 **Growth Mindset Math – Climbing any Mountain! (IS, R, GE)**

Kirsten K. Meymaris, Lea Rosenberry, Tami Tacker

S170 **Transitioning Learners to Calculus in Community Colleges [TLC3] (MI, R, DI)**

Helen Burn

S172 **An Activity-Based Math for Liberal Arts Course (CR, IS)**

Peter R. Wildman, Greg Cripe

S173 **Changing Statistics Class with Mile High Results (ST, IS)**

Sarah Haskins

S174 **Comparison of Hong Kong and U.S. in Mathematics Teaching and Learning (GC, IS, G)**

Chris L. Yuen, Shane Tang, Amy Kong,

Oiyin Pauline Chow

S175 **Are You Engaging STEM Students Outside of the Classroom? (DI, G)**

Valerie Cope, Kinga Oliver

S176 **Proportional Reasoning in a Gentrification-Themed Board Game (IS, D, G)**

Forest Fisher, Jared Warner

S177 **Bring Engagement to New Heights: Stocking a Classroom for Success (D, G)**

Dayna Ford, Logan Maxwell

S178 **Students Say the Darndest Things (IS, GE, G)**

Milos Podmanik, Scott Adamson

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 19, 2016. If you are a delegate and have difficulty accessing the packet, contact your regional vice president.

Sunday, November 20

Sunday 8:15 am - 9:05 am

- S179 **Put Your Students Back in the Driver's Seat (IS, PA)**
Barbra Steinhurst
- S180 **Incorporating Low-Stakes Writing in Developmental Algebra (D, IS, DL)**
Dona Boccio
- S181 **What's So Natural About $1/x$? A History of Logarithms for the Classroom (H, IS, MI)**
Janet Heine Barnett
- S182 **Enrich Your Lectures and Limit Test-Writing Time (MI, IS, IT)**
Agnes Azzolino

Sunday 9:25 am - 10:15 am

- S183 **The Power of Statistics: Impacts of a Multifaceted Internship Course (ST, CR, R)**
Hanli Huang
- S184 **Constructing Beams and Modeling with Algebra (MI, D, GE)**
Amber Severson, Glen Richgels, Erin Richgels

- S185 **Realigning College Algebra with a Lofty Goal (CR, MI, PA)**
Emerald Stacy
- S186 **The Impact of Expressive Writing on Test Performance in College Math (R, PA, D)**
Rachel Sefton

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 San Diego
- ✦ Adjournment

Denver 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)



Denver Skyline/Courtesy of VISIT DENVER



Remember the Past, Invest in the Future

Celebrate the life of Margie Hobbs, Past Conference Coordinator and Past Treasurer,
with a donation to the Foundation

and

Congratulate Project ACCESS graduate Michael Pemberton as he is awarded the
first annual Leila & Simon Peskoff Award in Denver at the Opening Session.

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

American Mathematical Association of Two-Year Colleges 42nd 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" (S013). If you qualify and are registering prior to the end of the discount registration period, see registration categories B or D on the next page.

Name _____
Please type or print legibly.

Will you be bringing a Guest(s)? (See page 21 for eligibility.)
Please type or print guest's name as it should appear on name badge.

For Name Badge _____

Member ID# _____
See membership card or mailing label (if member).

Preferred mailing address is: College/Institution Home

College _____ **Residence Address** _____

College Address _____

City _____ **State** _____ **Zip** _____

College Phone(_____) _____

Residence Phone(_____) _____
 Check here if this phone is a cell phone.

Email Address _____ **Emergency Contact** _____

Check here if you wish to be excluded from the attendee list provided to vendors. **Phone**(_____) _____

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, 2016.	Registration AND payment post-marked after September 30, 2016.	Registrations sent by mail must be postmarked by October 15, 2016. 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, 2016.	Registration AND credit card information completed after October 7, 2016.	
FAX (3 pages) to 901.333.5651 using a credit card	Registration AND credit card information must be completed by October 7, 2016.	Registration AND credit card information completed after October 7, 2016.	Please do not fax form and credit card information after October 21, 2016. It will be necessary for attendee to bring form and payment with them and register onsite.
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 **November 2, 2016**. A 50% refund less a \$25 service fee will be given if your written request is postmarked on or after November 3, 2016, and by November 16, 2016. NO refunds will be given for requests postmarked on or after November 17, 2016. 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, 2016. 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 11/20/16 or earlier, must renew their dues. 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
A	Individual Membership - One year	\$88
B	Individual Membership - Two years	\$171
C	Individual Membership - Three years	\$249
D	Individual Membership - Lifetime	\$1,760
E	Adjunct Membership	\$44
F	Retired Membership	\$44
G	Associate	\$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, E, or G. Individuals who join or renew their membership with conference registration are also eligible to use Categories A, B, E, or G. Retirees are eligible to use Categories G or H. Registrants who select Category A, B, E, or G, but whose membership cannot be verified as current will be required to either (1) pay non-member rates shown in Categories C, D, F, or H or (2) join AMATYC and pay membership dues before their registration can be processed. Persons attending for the first time and who register by the Discount Registration deadline are eligible to use Categories B or D.

Check one	<i>Payment must accompany registration form. (Payment must accompany a purchase order.) Fax and Web registration payment must be by credit card.</i>	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
A	Registration, Current AMATYC Member (Individual or Adjunct)	N/A	\$360	\$400
B	Registration, Current AMATYC Member (Individual or Adjunct) AND FIRST-TIME ATTENDEE	N/A	\$310	Not Available ³
C	Registration, NON-Member ⁴ , not joining at this time or LAPSED Member, not renewing at this time	N/A	\$473	\$513
D	Registration, NON-Member ⁴ , not joining at this time or LAPSED Member, not renewing at this time, AND FIRST-TIME ATTENDEE	N/A	\$423	Not Available ³
E	Registration, Current AMATYC Member, SINGLE-DAY ¹ Attendee	<input type="radio"/> Thu <input type="radio"/> Fri <input type="radio"/> Weekend NO meals included	\$135	\$155
F	Registration, NON-Member ⁴ or LAPSED, SINGLE-DAY ¹ Attendee	<input type="radio"/> Thu <input type="radio"/> Fri <input type="radio"/> Weekend NO meals included	\$160	\$180
G	RETIREE ² Registration, Current AMATYC Member (Individual or Retired)	NO meals included	\$180	\$200
H	RETIREE ² Registration, NON-Member ⁴ , not joining at this time or LAPSED Member, not renewing at this time	NO meals included	\$236.50	\$256.50
	STUDENT Registration: Please contact the AMATYC Office for more information regarding member-sponsored student registration rates.			

SUBTOTAL B _____

¹Single-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.

²Retiree registrations do **not** include meals. Retiree registrants may purchase meal tickets to one or both meal functions.

³The **First-Time Attendee discount** is available **ONLY** during the Discount Registration period. Deadline to register using this discount: postmark by September 30 (via mail) or October 7 (via web or fax).

⁴**NON-Member** rates do **not** include membership.

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)	Fri., Nov. 18	7:45 am – 8:15 am		Included
Select one: <input type="checkbox"/> Non-vegetarian <input type="checkbox"/> Vegetarian				
Awards Breakfast — Registrant* (full conference)	Sat., Nov. 19	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. 18	7:45 am – 8:15 am	_____tkts. @ \$40/ea.	\$_____
Select quantity: _____ Non-vegetarian _____ Vegetarian				
Awards Breakfast — Guest of Registrant, Single-Day Registrant, or Retiree Registrant	Sat., Nov. 19	7:45 am – 8:15 am	_____tkts. @ \$30/ea.	\$_____
Select quantity: _____ Non-vegetarian _____ Vegetarian				

*If you register for the full conference 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 2016 through 8:00 am, Saturday, November 19, 2016, or with the conference registration, is eligible to enter the drawings for a complimentary discount member conference registration for San Diego (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"/> Presidential Scholarship	\$_____
<input type="checkbox"/> Endowment	\$_____	<input type="checkbox"/> Project ACCESS	\$_____
<input type="checkbox"/> General Development*	\$_____	<input type="checkbox"/> Research in Mathematics Education in Two-Year Colleges	\$_____
<input type="checkbox"/> Grants	\$_____	<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 D" 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 16 Thursday, November 17 Friday, November 18 Saturday, November 19

 ✦ ✦ 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 Denver Downtown Hotel

American Mathematical Association of
Two-Year Colleges (AMATYC)
November 17–20, 2016

Reservations received after October 24, 2016, 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/AMATYC2016

Phone: 888.627.8405 (mention AMATYC Conference)

Address: Sheraton Denver Downtown Hotel
1550 Court Place
Denver, CO 80202

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

Credit Card No. _____ Exp. Date _____

Signature _____
 American Express MasterCard Visa
 Discover Diners Club Carte Blanche
 JCB International

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: \$149* plus applicable tax \$ _____
 Club Level: \$184* plus applicable tax \$ _____
 (single/double)
 Additional Person: \$ 15 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 14.85% (subject to change).

Hotel Deposit: All reservation requests will require one night's deposit plus tax to hold the reservation. Personal check, money order or a valid American Express, Visa, MasterCard, Diners Card, or Carte Blanche card number and expiration date are acceptable. **All individual room reservations are required to pay one night's lodging if the reservation is canceled less than 72 hours prior to arrival. 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 Denver Downtown Hotel AMATYC Registration Desk — Plaza Foyer (Concourse)

Wednesday, November 164:00 pm - 8:00 pm
 Thursday, November 177:00 am - 6:00 pm
 Friday, November 187:00 am - 4:00 pm
 Saturday, November 197:00 am - 8:00 am
 Saturday, November 1910:00 am - Noon

FOR YOUR INFORMATION



Getting There

(all prices quoted are subject to change)

Flight Plans

Flights to the Denver area will arrive at Denver International Airport (DEN), the fifth busiest airport in the country. The airport is located approximately 25 miles from downtown Denver.

Airport/Hotel Transportation Shuttle Service

AMATYC has contracted with SuperShuttle to provide shuttle service between the airport and Sheraton Denver Downtown Hotel. To make your shuttle reservation use the link on the conference website at www.amatyc.org for airport transportation or use the QR code to the right. (The group code is AL56C, if needed.)



Rates

- \$40 per person, roundtrip fare
- \$25 per person, one-way fare

Taxi

Taxicabs are readily available and provide service to the Denver metro area and surrounding counties. Taxicabs pick-up and drop-off from Jeppesen Terminal, Level 5, Island 1, outside Doors 505, 507 and 511 (Terminal East), and Doors 506, 510 and 512 (Terminal West). Taxis to the downtown Denver destination have a flat-rate charge (one-way fare, airport access fee already included) of \$55.57.

Public Transportation

The University of Colorado A Line commuter rail will transport you from Denver International Airport to Union Station on the 16th Street Pedestrian Mall. From there you can catch a free bus which will drop you off in front of the Sheraton Denver Downtown Hotel. Cost of the rail is \$9 one way. The ride will take approximately 37 minutes and departs the airport every 15 minutes during peak hours and 30 minutes in off peak hours. Board the train on Level 1 at the Transit Center.

Getting Around Denver

How to get from adventure to adventure

Wandering downtown Denver is an easy and fun adventure. From our conference hotel, you can easily walk to dozens of restaurants, many thousands of dollars' worth of shopping, multiple cultural enchantments, and much, much more.

Without ever leaving the sidewalk, you can feed and entertain yourself on just the 16th Street Mall for weeks, if not longer.

But, perhaps your feet are getting tired from miles of walking. Not a problem in friendly and hospitable Denver! Just steps outside the doorway of the conference hotel lies the 16th Street shuttle system (called the MallRide). This free hybrid shuttle runs day and night and takes you everywhere from the Civic Center station (just a hop, skip, and stone's throw from the Colorado Capital building) to Union Station, where, you guessed it, you can hop on a train or light rail car!

And speaking of the light rail system, this low cost form of public transportation can whisk you away to many discoveries awaiting you both near downtown proper and into some of Denver's charming outposts. Using the light rail, you can visit Sports Authority Field at Mile High (go, Broncos!), the Pepsi Center (sports, concerts, and more are featured at this venue), and most informative, Colorado's many two- and four-year college campuses! You can find bus stations at Union Station, Civic Center Park (at opposite ends of the 16th Street Shuttle), or at many intersections throughout the city. From these stations, you can almost always hop on an RTD (Regional Transportation District) bus to explore more outlying communities.

Denver is known for its active lifestyle, and if walking slows you down, rent a bicycle. Bike rental facilities abound, including the innovative bikeshare program, Denver B-Cycle. Scooter tours are another fun option!

Want a less strenuous but still exotic transportative experience? Rent a pedi-cab (usually \$2 a block plus tips), an eTuk (100% electric 3-wheeled vehicle) or horse and carriage. While horses and carriages run a bit more (around \$50 per carriage ride), you'll experience a fresh view of the city and its history.

Need more information? 303.299.6000 might be just about the only number you need. This is the general RTD phone number and can help you with light rail questions, bus routes, and much, much more.

Conference Housing

The 42nd Annual AMATYC Conference begins on Thursday, November 17, 2016, at the Sheraton Denver Downtown Hotel, located at 1550 Court Place, Denver, CO 80202.

A block of guest rooms at reduced rates has been reserved at the Sheraton Denver Downtown Hotel until October 24, 2016, 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 by calling the hotel at 1.888.627.8405 or online – the hotel's preferred method – at the website listed on the hotel form on page 18.

A deposit equal to one night's stay is required to hold each individual's reservation. Personal check, money order or a valid American Express, Visa, MasterCard, Diners Card or Carte Blanche 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 two working days prior to arrival, 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 canceled. 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.

The Sheraton Denver is located on a mile-long pedestrian promenade of outdoor bistros, microbreweries, shopping, and entertainment situated in the heart of Denver's financial and business districts. Hop off the free shuttle and explore the area which also includes some top downtown Denver attractions, like the Denver Performing Arts Complex, Denver Art Museum, Denver Downtown Aquarium, US Mint, and major professional sports stadiums.



Sheraton/Courtesy of Sheraton Denver Downtown Hotel

Parking

Valet parking service is available; the overnight guest rate is \$45. Self-parking is also available at a rate of \$12/hour, to a maximum of \$37 for overnight parking. Other parking lots abound, but rates can range from \$10/day or \$3/hour to much higher, depending on what else is happening in Denver that day. Metered parking is also available, but difficult to find. Because Denver has such plentiful and affordable public transportation (including to and from the airport), your best bet is to leave the driving to us!

Roommate Service

Those wishing to share a room with one, two, or three other conference attendees should complete the Roommate Network form at www.amatyc.org and by clicking on the "42nd AMATYC Annual Conference" link, then the "Roommate Request Form" link found on that page no later than October 31, 2016. 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@cpcbmd.edu.

The process will involve putting you in touch with others 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.*



Denver Botanic Gardens/
Courtesy of Scott Dressler-Martin and VISIT DENVER

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, 2016. If submitted via the web or faxed, the completed registration form must be received on or before October 7, 2016.** After these dates, registration will continue at the regular registration rate of \$400 (member) and \$513 (non-member). Registrations sent by mail **must be postmarked** on or before October 15, 2016, 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 15, 2016, faxed by October 21, 2016, or completed online by noon, October 24, 2016, 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, 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 first-time conference attendees 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



State Capitol Building/
Courtesy of Bob Ash and VISIT DENVER

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 those 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

A refund of 100% of your registration fees less a \$25 service fee will be given upon receipt of a written request postmarked by November 2, 2016. A 50% refund less a \$25 service fee will be given if the written request is postmarked on or after November 3, 2016, and by November 16, 2016. No refunds for non-attendance will be given for requests postmarked on November 17, 2016, or later. 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, 2016. 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, 2016, 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 Denver.

Special Events

Themed Sessions

Thursday morning, there will be two themed sessions in which six different speakers have 15 minutes to share their ideas. The Placement/Assessment Committee will show you “What’s Up in the Placement & Assessment Corner” in the areas of multiple measures for placement, including how GPAs work as a predictor of success. Hear about some current trends including informed self-placement and placement via bridge programs. Share data about the Common Core’s relationship to placement results.

The Mathematics Intensive/College Mathematics Committee returns with their popular themed session “Teaching and Learning in Precalculus, Calculus, and Beyond.” This year’s topics vary from a precalculus investigation of compound interest

for pension plans to developing intuition in multivariable calculus students with physical models, with stops along the way to discuss activities for differentiation in business calculus, assisting under-prepared calculus students, and involving STEM students in service learning.

Other Special Emphases

Arrive early for the conference to participate Wednesday, November 16, 8:30 am - 5:00 pm in a workshop led by Allan Rossman, Beth Chance, and Robert Gould on “Teaching Introductory Statistics with Simulation-Based Inference.” This workshop presents hands-on activities to introduce concepts of statistical inference using simulation-based methods with emphasis on statistical investigations. The activities involve real data from genuine studies and make use of freely available applets along with discussions about implementing and assessing student learning with this approach. The workshop is free, but space is limited and advance registration is required. For more information and a registration form, see www.causeweb.org/cause/workshop/amatyc16. Questions can be directed to Allan Rossman (arossman@calpoly.edu).

The statistical emphasis continues Friday morning when you can “GAISE into the Future” when the new Guidelines for Assessment and Instruction in Statistical Education (GAISE), endorsed by the American Statistical Association, are introduced in a session led by Allan Rossman. Following this introduction, Roxy Peck, Robert Gould, and Michael Posner will lead a workshop to demonstrate ways to incorporate the new guidelines into your courses.

Then Friday afternoon, broaden your horizon with two presentations endorsed by the Joint Committee on Women in the Mathematical Sciences. Jessica Rockswold’s session “The New Brand of Powerful” will include information on leadership in today’s world and how STEM education can enliven the talents and motivation of women to assume these leadership roles. Marilyn Mays, along with Wade Ellis, brings a background of AMATYC leadership and participation to “Going Forward: Increasing Diversity



Larimer Square/Courtesy of Steve Crecelius and VISIT DENVER

in AMATYC and its Leadership.” See data on women and underrepresented minorities in mathematical education and discuss ways to increase the involvement of these two groups.

Academic Committee Meetings

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

Participation in AMATYC academic committees provides members with opportunities to learn more about an area of interest and share expertise with others. Academic committees develop position statements, work on projects, and serve in an advisory role to the AMATYC Executive Board and the Delegate Assembly. Committee meetings are open to all interested individuals and provide opportunities to become more involved in AMATYC.

Friday at 4:00 pm each committee will meet, allowing attendees to participate in the committee of their choice without missing sessions or workshops. This reserved time at the end of the day also allows committees the flexibility of meeting longer than one hour if they have so requested.

Committee-Sponsored Sessions

The Placement/Assessment Committee and the Teacher Prep Committee will be sharing their successes and challenges, their experiences and questions in a Round Table discussion, Placement/Assessment Friday afternoon and Teacher Prep Saturday morning. The Mathematics Intensive/College Mathematics Committee will hold its annual Sharing Session Saturday, and the Mathematics and its Applications for Careers Committee chair gives a talk about the use of multivariable functions Friday afternoon.

Introducing the ANets

New this year are four AMATYC Networks (ANets): Adjunct Faculty Issues, Division/Department Leadership, International Mathematics, and Liberal Arts Mathematics. Each will have an organizational meeting at 4:00 pm on Friday. That morning at 11:25 am climb a “Mile High with ANets” and learn “How You Can Benefit from This!” as each ANet leader describes the purpose and goals of his or her group.

While these interest groups as formal entities are new, their work has been part of the program and will continue. Participate in the Chairs’ Colloquium Thursday afternoon and the Adjunct Sharing Session on Saturday. Discover many liberal arts sessions throughout the program and look for reports from the International Conference on Mathematics



Brown Palace Hotel/
Courtesy of Rich Grant and VISIT DENVER

Education (ICME-13) with a panel Friday afternoon and developmental-specific information from Greg Foley Friday morning.

The Research in Mathematics Education in Two-Year Colleges Special Session

Thursday evening at 7:00 pm, join the Research in Mathematics in 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 followed by a series of 30 minute breakout sessions.

Grants Information

Thursday morning, John Pazdar, AMATYC’s Grants Coordinator will host Nancy Sattler, Chair of the AMATYC Foundation, as she explains how to apply for a grant from the foundation to fund your research project. If time permits, further discussion will follow about NSF’s IUSE Program grant writing.

Poster Session

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 10:15 am - 5:00 pm, but you will want to take advantage of the scheduled session to talk with the poster presenters.

AMATYC 101

During the first sessions on Thursday, Nancy Rivers (Southeast Region VP) and Liz Hylton (Northwest Region VP) will host “AMATYC 101.” An overview of the association will be given, 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.

Faculty Math League Competition

Participate in the 13th 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.

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 Sarah Jackson of KAMATYC and Glynis Mullins of NCMATYC. 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 opportunity to brag - from a mile high - about your affiliate!

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 demonstrate 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 - 1:00 pm

and 1:45 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 1:00 pm - 1:45 pm. Please plan your schedule to allow our exhibitors to have this time for lunch.

Exhibitor Product Presentations

Several AMATYC exhibitors will conduct 30-minute presentations to highlight their products and services. These presentations will be located in the Exhibit Area from 10:30 am to 11:45 am and 2:00 pm to 4:45 pm on Friday only. While the descriptions will be included in the conference program, a listing of titles, presenting companies, and times of presentations will be posted in the exhibit area. 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.

AMATYC Forums

Three 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. Drafts of the position statement and strategic plan are available on the AMATYC website.

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

Moderator: Stefan Baratto, Chair,
Mathematics and its Applications for Careers
Committee
7:00 pm - 7:30 pm

This statement takes the position that mathematics programs for career-specific terminal-degree programs should be developed by full-time mathematics faculty members, working with career and technical education departments, to ensure that their mathematics curricula meet the needs of their students; focus on discipline-specific applications; promote critical thinking, logic, and technical communication; and are of a high quality that meet the criteria for a two-year college degree, as outlined by the AMATYC standards found in the *Crossroads* document.

AMATYC Strategic Planning Forum

Moderator: James (Jim) Ham, President-Elect
7:00 pm - 7:30 pm

Every six years AMATYC creates a new strategic plan to guide the organization in accomplishing its mission. This forum will seek feedback on the current draft of the 2018-2023 strategic plan.

Beyond Crossroads Revision Project

Moderators: Nancy Sattler, Past President,
and Mary Beth Orrange
7:30 pm - 8:00 pm

This forum will present information on the status of the third document in the *Crossroads* series and solicit feedback for the remainder

of the project. The original standards, presented in *Crossroads* and expanded in *Beyond Crossroads*, are just as relevant today as when they were first developed. The next document will provide enhancement and strengthening of AMATYC's standards.

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.

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 19, 2016. 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.

General Information

Weather

If you don't like the weather in Denver, just wait a few minutes. Because of the complex and intricate weather patterns crossing the nearby Rocky Mountains, Denver's weather can change in an instant. It's not unusual to golf in the morning under sunny 70 degree skies, then find yourself bundling up for a 40 degree plunge in temperature as an afternoon snowstorm rolls down over the nearby mountain ranges. Don't fear, however! Our snowstorms usually pass by quickly, and the resulting accumulation melts away almost exponentially.

Generally, it's safe to assume that daytime temperatures will top out in the 40s or 50s,



16th Street Mall/Courtesy of VISIT DENVER

and drop to the low to mid 20s at night. Bring warm weather gear (maybe a snow suit?), and lots of layers. While it can get very cold, Denver's sun shines at a higher altitude and can become surprisingly warm.

Restaurants

You'll have no shortage of dining options in downtown Denver and just beyond. Right outside our hotel doorsteps, you'll find any type of cuisine you fancy. Downtown Denver offers everything from the convenience of fast food and food courts to high end gourmet fare. Nearby Denver Pavilions offers both well-known eateries such as Maggiano's, Hard Rock Café, and Coyote Ugly Saloon, and more local fare at the 5280 Burger Bar, Lime Cantina, and Henry's Tavern.

The 16th Street Mall itself offers almost any kind of dining adventure you seek. From more traditional restaurants such as Marlowe's, the Appaloosa Grill, the Cheesecake Factory and the Paramount Café, to the more exotic hot spots such as Katie Mullen's Irish Pub and Little India Restaurant, you'll find something to tickle your taste buds.

A short ride down the 16th Street Shuttle lands you in Larimer Square. Here, you can sample a veritable cornucopia of culinary delights at the eclectic and hopping Market at Larimer Square. You'll also find delicious steakhouses like Ted's Montana Grill and Russell's Smokehouse, Mexican delicacies at Tamayo, and delightful and inventive culinary creations at TAG.

Walking the opposite direction takes you to the Brown Palace Hotel (just a few short blocks), with formal dining at the Palace Arms, casual dining in a vintage pub atmosphere, or a traditional English Afternoon Tea in the hotel's luxurious and historic lobby atrium. Come for the food, and stay for the hotel's splendor and historic ambiance.

If you're interested in a more western adventure, hop on the light rail to the nearby

Buckhorn Exchange, Denver's original steak house. Its western décor will fascinate as you enjoy a Colorado treat: Rocky Mountain Oysters! If you're feeling a bit more indulgent, carpool out west to The Fort (about 20 minutes). Like the Buckhorn Exchange, you can feast on Rocky Mountain delicacies such as rattlesnake, buffalo, and venison, with a spectacular view of our front-range Red Rocks, nearby mountain ranges, and the city tableau.

Whatever your tastes and budget, Denver has everything delicious to offer. Be sure and check with the local committee for their favorites!

Cultural Events and Day Outings

Denver is a city of many adventures. You'll never be bored, whether you stay within a few blocks of our conference hotel, or wander into the heart of the Rockies.

Near our hotel, cultural adventures abound. Be sure to visit the nearby Brown Palace Hotel. This historic and sumptuous palace was built in 1892 and promises a trip back in time to Denver's early glory days. Book yourself a spot of English Afternoon Tea in the hotel's grand (8 story!) atrium, and drink in Denver history.

Interested in music or theater? The Denver Center for the Performing Arts is a short walk or shuttle ride away. World-class plays and concerts are featured daily. For schedules and tickets, visit www.denvercenter.org before your stay. Denver also boasts Comedy Works, the Paramount Theatre, and other niche venues such as El Chapultepec (this author's favorite for live jazz). Sporting events and large, big-name concerts can be enjoyed at the nearby Pepsi Center as well (www.pepsicenter.com).

Perhaps a little education is in order. Auraria Campus, the site of CC of Denver, University of Colorado at Denver, and Metropolitan State University, is blocks away. Come tour this bustling campus and visit your Colorado math colleagues!

Be sure to head over to nearby LoDo, one of Denver's most hip and happening scenes. Nightlife and trendy eateries will sustain and entertain you late into the night. You might also want to visit nearby Coors Field, to see where our beloved Rockies play America's favorite pastime.

Hankering for a museum trip? We have plenty to offer - the Denver Art Museum, the Molly Brown House (yes, that unsinkable Titanic dame), the quirky Kirkland Museum, the History Colorado Center, the Forney Museum of Transportation, the Denver Firefighters Museum, and many more too numerous to mention. A few miles out of

downtown and easily accessible by public transportation are the Denver Museum of Nature and Science, the Denver Zoo, Denver Botanic Gardens, and the Butterfly Pavilion. Stop by the hospitality room to talk with one of us friendly Denver hosts about these expeditions!

If you're looking to explore the great west, Colorado has many day adventures for intrepid pioneers. Avid skiers will enjoy tackling the slopes of nearby Loveland Ski Area (about 45 minutes west of Denver), and hikers will enjoy the more immediate foothills (weather permitting, of course). For those daring risk-takers, the odds are good that you'll enjoy gambling in the historic mountain town of Central City (round trip buses are always running!). If you have a little more time, you may want to visit Estes Park, the main entrance to Rocky Mountain National Park. While Trail Ridge Road isn't passable in November (you try plowing through 12 feet of snow!), there is plenty more to see, including herds of elk, passing moose, and other Rocky Mountain flora and fauna. Are you more interested in rocks than critters? Be sure to visit the historic mining towns of Georgetown and Idaho Springs, where you can tour silver mines and pan for gold.

Not sure what you want to do? Purchase the Mile High Culture Pass, www.denver.org/things-to-do/mile-high-culture-pass, for \$52.80, giving you access to 7 attractions in 5 days. A similar pass is available for 3 attractions over 3 days for \$25. It's a cheap and easy way to get on your mile high merriment!

Job Board

A job board and recruitment table will be located near the registration area. Bring copies of any job announcements from your college to post on the job board.

Email/Communications

Complimentary WiFi is available in each guest room booked within the AMATYC block.

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. Also the entire hotel lobby and public areas are equipped with free wireless access. Complimentary printing of airline boarding passes is available in the lobby at the Sheraton Link.

Professional Networking/ Hospitality Room

Please join us in the Hospitality Room in Plaza Court 1 for mile high meet-ups and munchies! Visit current and former

colleagues, meet new friends, and explore new adventures with your Colorado hosts! We'll provide the fun, you just bring yourself! The members of the Local Events Committee want you to take advantage of all that Denver has to offer, and we'll help feed, entertain and enrich you all! Let us elevate your mile high experience!

Professional Networking/ Hospitality Room Hours

Wednesday 4:00 pm - 8:00 pm
 Thursday 9:00 am - 2:30 pm
 and 8:30 pm - 10:00 pm
 Friday 9:00 am - 12:00 pm
 and 1:00 pm - 3:00 pm
 Saturday 11:00 am - 1:00 pm

Service Project for the Denver Rescue Mission

Denver winters are harsh, especially for the large homeless population in downtown Denver. Since 1892, the Denver Rescue Mission has provided emergency services, community outreach, long-term rehabilitation, transitional programs, and assistance for permanent housing to those in need. AMATYC is partnering with the Denver Rescue Mission to help provide poor and homeless Denver residents with cold weather clothing and gear. Please consider bringing one or more of the following items: warm hats, gloves, mittens, and outerwear for men, women and children.

Collection bins will be set up in the Hospitality Room. Thank you for your support.

San Diego 2017

Program proposals to present in **San Diego** can be submitted at the AMATYC website, www.amatyc.org, beginning November 1, 2016. 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 San Diego is **February 1, 2017**.



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

C7
Friday
10:00-11:15
Supporting Students Through Corequisite Courses
Andrea Hendricks
Increase Collage Algebra success rates with just-in-time learning and remediation. Explore tools and tips for success in emerging courses.

C13
Friday
2:45-4:00
Finally! A Curriculum that Works for Non-STEM Students!
Dave Sobecki, Brian Mercer
The traditional math curriculum was not designed with non-STEM students in mind. Fortunately, momentum is growing nationally for an alternative pathway that is more appropriate and beneficial for non-STEM students. Hear about two new courses in depth: Math Literacy (developmental level) and Quantitative Reasoning (college level).

WebAssign

C10
Friday
12:25-1:40
Discover WebAssign's New Student-Paced Course Model
Katie Droskiewicz
Students are entering college without the fundamental math skills necessary to succeed in college-level mathematics. Come see how WebAssign is addressing the need for an effective developmental math solution with a new student-paced course. Discover how to foster student learning by providing learning resources and guiding students to concept mastery.

C15
Friday
2:45-4:00
Create Your Own Questions in WebAssign
Katie Droskiewicz, Katie Fowler
Join this interactive workshop to discover how to create your own questions in WebAssign. This is a great class for beginners and those wanting to learn more about question coding. Topics will include the Question Editor, question randomization using Perl, and the creation of numerical, symbolic, and multiple-choice questions.

C18
Saturday
10:30-11:45
Effective Student Placement
Jenn Ferralli
Placing students in the proper math class from the start is critical to their overall success. Discuss best practices for placement testing as well as methods for, and the research behind, achieving the best placement results. See how Texas A&M effectively places students.

Pearson Education

C5
Thursday
1:40-2:55
Activities that Enhance the Conceptual Understanding of Statistics
Michael Sullivan III
This presentation focuses on activities and examples that enhance student understanding of statistical concepts. The activities include simulation, randomization, and the role of technology in developing conceptual understanding. Examples that develop an understanding of the investigative process, the roles of randomization, and variability are also presented.

C11
Friday
12:25-1:40
MyMathLab & MyStatLab: Motivating Students with Learning Catalytics
Diane Hollister
Using Learning Catalytics allows students to respond to questions with their own devices and quickly identifies students' misconceptions. Hear Learning Catalytics best practices and create your own questions and modules. *Pearson Efficacy Implementation is authorized by IACET to offer CEUs for this program.*

C14
Friday
2:45-4:00
MyMathLab & MyStatLab: Workspace Assignments and Interactive Courses
Diane Hollister
Enhance your course utilizing conceptual learning tools that increase students' knowledge. Tools such as Integrated Review, Workspace Assignments, Interactive Courses, Video Check Questions, Applets, Interactive Figures, and more, combined with course design strategies, support effective learning paths for your students. *Pearson Efficacy Implementation is authorized by IACET to offer CEUs for this program.*

C17
Saturday
10:30-11:45
MyMathLab & MyStatLab: Skill Builder and Integrated Review Courses
Diane Hollister
Modify your courses to include personalized learning tools; personalizing your assignments results in individualized question sets to help students better focus on areas of difficulty. Examine features of Skill Builder Assignments and use Integrated Review materials to better address your students' skill needs. *Pearson Efficacy Implementation is authorized by IACET to offer CEUs for this program.*

Hawkes Learning is conducting the following commercial presentations – C9, Friday, 10:00 am - 11:15 am and C12, Friday, 12:25 pm - 1:40 pm. The titles and descriptions will be included in the conference program.

Maplesoft is conducting a commercial presentation (C8, Friday, 10:00 am - 11:15 am). The title and description will be included in the conference program.

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address or by email to amatyc@amatyc.org

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Beverly Vance, Office Director
Christy Hunsucker, Accounting Director
Christine Shott, Publications Director

On-site Conference Registration ♦ Plaza Foyer (Concourse)

Wednesday, November 16 4:00 pm - 8:00 pm
Thursday, November 17 7:00 am - 6:00 pm

Friday, November 18 7:00 am - 4:00 pm
Saturday, November 19 7:00 am - 8:00 am
Saturday, November 19 10:00 am - Noon