



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. We hope you find these codes helpful in developing your conference schedule. Please check the Program Key box for this year's featured categories and codes.

Thursday 7:50 am - 8:40 am

- S1** **How Does Video Restructure a Content Course for Elementary Teachers? (TP, IS)**
Christopher Danielson
- S2** **The Math Behind the Digital Craze (GE, G)**
Revathi Narasimhan
- S3** **Students Really Can Succeed in Online Algebra Courses! (D, IS, TT, RB)**
Harriette M. Roadman
- S4** **How to Make Math Class More Fun and Enjoyable for Students (IS, GE)**
George Alland
- S5** **Creating a Math Curriculum that Promotes Success (D, IS)**
Richard N. Aufmann, Joanne S. Lockwood
- S6** **Cultural Mathematics Academic Activity (C, RB)**
Selina Vasquez Mireles, Mario E. Moreno, Sonya Rahrovi
- S7** **An Alternate Approach to Teaching Arithmetic and Prealgebra (D, RB, DI)**
Barbara Lontz
- S8** **Screencast and the Tablet: How to Connect with a Video Generation (TT, IS)**
Evan Grant Evans, Jr., Larry Huff
- S9** **Early Introduction of Hypothesis Testing (ST, IS, RB)**
Shellene C. Foster
- S10** **Creating a Chance to Learn - Discipline in the College Classroom (G, IS, A)**
Connie L. Buller
- S11** **Linking Concepts in Intermediate Algebra and Precalculus (TT, IS)**
Claudia Stewart, Tracey Hollister
- S12** **Dealing with a Super-Sized Department (DI)**
Patrick L. Villa, Ronald W. Yates

Thursday 9:00 am - 9:50 am

- S13** **Model-building in the Introductory Statistics Course (ST, IS)**
Mary Sullivan
- S14** **Engage to Motivate (IS, SS)**
Michael Sullivan
- S15** **Collaboration Is the Key! (C, DI, A)**
Vicki Gearhart, Honey Kirk

- S16** **How Did We Do It? You Can, Too! (D, A, IS)**
Timothy (Tim) Britt
- S17** **Not All Online Mathematics Courses Are Created Equal (TT, A)**
Susan E. McLoughlin
- S18** **Instructional Design for Developmental Courses (IS, D, TT, RB)**
Wade Ellis, Jr.
- S19** **AMATYC 101 (G)**
Jean Woody, Jane Tanner
- S20** **Coloring in Math Class (GE)**
Julie C. March, Tracey Clancy

Thursday 9:00 am - 10:55 am

Themed Session

- T1** **Emerging Applications: Tomorrow's Careers**
- T1A** **Connecting Math and Physics with Modeling Exercises (IS, C)**
Robert L. Kimball, Jr.
- T1B** **Use of Mathematics in a Spray Condenser Design (IS, C)**
Jim J. McNeish
- T1C** **Outcomes Assessment in Math for Health Sciences (A)**
Joe Gallegos

Boston Program Key

- A Assessment (Classroom, Course, Program)
- C Connections (Articulation with K-12, Universities, Business, Interdisciplinary Classes, etc.)
- D Developmental Mathematics
- DI Department/Division Issues (Adjunct Issues, Mentoring New Faculty, etc.)
- G General Interest
- GE Mathematics for General Education (Finite Mathematics, Liberal Arts, Quantitative Literacy)
- H History of Mathematics
- IS Instructional Strategies (Learning Styles, Teaching Methodologies, including Modeling)
- MI Mathematics Intensive (College Algebra, Precalculus and Beyond)
- RB Research-Based
- SS Student Support (Math Labs, Study Skills, Tutoring, Learning Communities, and Addressing Math Anxiety)
- ST Statistics
- TP Teacher Preparation
- TT Teaching with Technology (Distance Learning, Computer Software, Internet Resources, Graphing Calculators, etc.)

Thursday, November 11

- T1D **Making Statistics Meaningful to Health Science Majors (ST)**
Brenda H. Alberico
- T1E **The Role of Mathematics at the Fashion Institute of Technology (G, C)**
Lasse Savola
- T1F **It Is Possible to Do College-Level Math in an Arithmetic Based Course! (D, IS)**
Teri R.L. Figarola

Thursday 9:00 am - 11:00 am

- W1 **Captivating Contexts for College Algebra (IS, MI)**
Frank C. Wilson
- W2 **Building Academic Confidence and Comfort for Transfer via Mathematics (C, IS)**
James Morrow, Charlene Morrow, Irma Medina
- W3 **Number Sense and the Chinese Abacus (GE, TP, H, D)**
Cheryl Ooten
- W4 **Incorporating Study Skills in a Developmental Mathematics Classroom (D, SS, RB)**
George Woodbury
- W5 **GeoGebra 101 or How I Learned to Stop Worrying and Drag My Graphs (TT) *[bring your laptop]***
Alison J. Schubert, Anne Magnuson

Thursday 9:00 am - 11:55 am

Themed Session

- T2 **Precalculus, Calculus, and Beyond**
- T2A **What Do Electric Bicycles Have to Do with Trigonometry? (MI, IS)**
Eric J. Hutchinson
- T2B **The Calculus of a Vase Project (MI, IS)**
Nicole L. Scherger, Mary Ann Tuerk
- T2C **Should Trig Identities Be Derived Using Euler's Formula in Precalculus? (IS, MI)**
Alexander Atwood
- T2D **Strategic Approaches to Partial Fraction Decomposition (MI, IS)**
Siham Alfred
- T2E **Verifying Surface Intersection Curves Visually (TT, MI, IS)**
Paul E. Seeburger
- T2F **Using a Graphing Calculator to Check Answers in Calculus and Diff Eq (TT, MI, IS)**
Robert Cappetta
- T2G **Understanding 3D Objects with In-Class, Hands-on Activities (TT, MI, IS)**
Helen Mirtova
- T2H **Linear Transformations in Calculus II (MI, IS)**
Paul G. Drelles
- T2I **MCM Participation Has Enhanced Diff Eq and Calculus III (IS, MI)**
John Long

Thursday 10:00 am - 11:30 am

- C2 **SAS Institute Inc., JMP Division: Technology in the Classroom: Teaching Stats Using JMP®**
Mia Stephens

Thursday 10:10 am - 11:00 am

- S21 **On the Use of Social Media (IS, TT, G)**
Mike E. Martin, Maria Andersen, Fred Feldon, Mary Beth Orange
- S22 **Look at Mathematics: Examples from the World of Art (G, C, GE)**
Marcia (Marty) Kemen
- S23 **How Many Points Is that Worth? Assessing Problem-Solving with Rubrics (A, DI)**
Dennis C. Runde
- S24 **Math Mentoring: The Future for Developmental Mathematics? (D, SS, RB)**
Benjamin Moulton, Marni Sanft
- S25 **CC-OLI Statistics: Free, Research-based Online Learning Materials (ST, A, RB)**
Candace Thille, Oded Meyer, Mary Kehoe Moynihan, Caren McClure, Myra E. Snell
- S26 **Building Conceptual Understanding in Developmental Mathematics (D, IS)**
Erica L. Kwiatkowski-Egizio
- S27 **Using "Prepare and Reflect" Worksheets to Foster Student Accountability (IS)**
John Robert Bakken, Debra K. Olson
- S28 **A Collaboratory for Exemplary Teaching in Mathematics (IS, RB)**
J. Paul Balog, Paul Wraight

Thursday 11:20 am - 12:10 pm

- S29 **Making eLearning Engaged Learning in Developmental Algebra (IS, TT, D)**
Randy Gallaher, Kevin Bodden
- S30 **Confidence Intervals for a Proportion in Introductory Statistics (ST)**
Kimberly R. Pearson
- S31 **Obtaining Better Math Software by Understanding Software History (TT, H)**
John C. Miller
- S32 **Class Journals Written and Edited by Students (IS)**
Michael P. Kenyon
- S33 **Certainty, Mystery, and the Classroom (C, RB, H, G)**
Dustin (Dusty) W. Wilson
- S34 **An Algorithmically Generated Placement Test (A, TT, DI)**
Chris Hughes

Thursday, November 11

- S35 **The Power of Google Docs for Effective Online Course Management (TT, IS)**
George M. Alexander, Calvin Williamson
- S36 **Engaging Students in the Precalculus Suite of Courses (IS, MI)**
Cynthia Y. Young
- S37 **Planes, Balls, and Parametric Equations (IS, TT, MI)**
Nancy J. Rivers
- S38 **Marilyn's Top Ten (TP, IS, D)**
Pamela W. Miller, Deborah Ermoian
- S39 **Mathematics and the Founding Fathers (G, GE, C, H)**
David Price, Elise Price

Committee Meeting

11:20 am - 12:10 pm
Developmental Mathematics

Thursday 12:30 pm - 1:20 pm

- Y1 **Research as Faculty Development (RB, IS)**
Patrick W. Thompson
- S40 **The Past to the Future: What if the Bridge Was Out? (IS, TT)**
Robert L. Kimball, Jr.
- S41 **The Archimedean Screw and Helix for Mathematician and Tourist (G, H, MI)**
Alice Kaseberg
- S42 **I Can't Teach Calculus and It's Not My Fault! (MI, IS)**
Philip Cheifetz, Ellen Schmierer
- S43 **Success by Design: A Developmental Math Redesign that Works! (D, A, RB)**
Kathleen L. Almy
- S44 **Motivating Math Students to Choose Success (D, IS, SS)**
Keith White
- S45 **Emerging Technologies to Enhance Your Mathematics Course (TT)**
Dan G. Petrak
- S46 **Teaching Discrete Mathematics with Activities (GE, MI, IS)**
Denise R. Johansen
- S47 **The Space Odyssey of 2010 (MI, H, TT)**
Paul A. Kinion

Thursday 12:30 pm - 2:00 pm

- C3 **College Board: ACCUPLACER Math Diagnostics**
Chantel Reynolds, Suzanne Murphy
- C4 **CASIO America, Inc.: Activate Student Interest-Explore Mathematics with the ClassPad**
Diane Whitfield, Nathan Austin

Thursday 12:30 pm - 2:30 pm

- Q1 **Department/Division Chairs' Colloquium (DI)**
Sean Simpson, Ron Hammond
- W6 **Enriching Calculus with Formative Assessment Activities (A, MI, IS)**
Sharon F. Welker, Mary D. Pearce
- W7 **Percents for Chefs: Culinary Mathematics Using Food as Manipulatives (C, IS, D)**
Mike Nothnagel
- W8 **Prime Your Prospective Teachers: Activities in Number Theory (TP)**
Andy D. Jones, Joanne O. Weinberg
- W9 **Nonparametric Statistics Using Excel (ST, TT)**
[bring your laptop]
Barry Woods

Thursday 1:40 pm - 2:30 pm

- Y2 **Research on Students' Reasoning and Sense-making (RB, IS)**
J. Michael Shaughnessy
- S48 **Second Life in Higher Education (IS, TT)**
Fred Feldon
- S49 **Developmental Courses in the 21st Century (D, IS, TT)**
Maria DeLucia, Don Groninger
- S50 **The Math Skills Center - A Successful Approach to Developmental Math (D, SS, IS, RB)**
Stacy Martig, Stephanie Houdek
- S51 **From an ESL Perspective: Deciphering the Language of Mathematics (C, D, IS)**
Jennifer N. Helfman, Veronica Campos
- S52 **Building Mathematical Bridges to Baseball's Past (ST, GE)**
Stephen A. (Steve) Krevisky, Ernie C. Danforth
- S53 **College Algebra in the Age of Symbolic Processors (MI, TT)**
Sheldon Axler
- S54 **Activities for Review and Reinforcement in Developmental Math (D, IS)**
Jane Hammontree

Committee Meeting

1:40 pm - 2:30 pm
Placement and Assessment

Wireless High-Speed Internet Service (WiFi)

WiFi is available in the guest rooms for a charge of \$12.95 per twenty-four hour period.

Thursday 3:00 pm - 4:30 pm

Opening General Session

Remarks by

Rob Farinelli, AMATYC President

Speaker: Javier Gomez-Calderon

The Treasure of Polynomials

Thursday 4:45 pm - 7:30 pm

**Grand Opening of the
AMATYC Exhibits**

Thursday 6:00 pm - 7:00 pm

Reception for First-Time Attendees

Everyone attending an AMATYC conference for the first time is invited. Please check "YES" on the top of your registration form. Come and get acquainted with your colleagues and with AMATYC.

Thursday 7:00 pm - 8:00 pm

AMATYC Forums

(see page 22 for complete description)

7:00 pm - 7:30 pm

Conversations About AMATYC

Moderators: Rob Farinelli, Mike Hardie, Rikki Blair, and Jane Tanner

7:30 pm - 8:00 pm

Forum on Strategic Planning

Moderator: Jim Roznowski

Thursday 8:30 pm - 10:00 pm

**AMATYC Foundation Presents
"Bamboozled in Boston"
with Master Magician Phil Cheifetz
\$35/person (Ticket Required)**

See page 22 for details.

Friday 7:45 am - 9:45 am

**Regional Meetings* &
Continental Breakfast**

Northeast - Jane Tanner	Mid-Atlantic - Ruth Collins
Southeast - Donna Saye	Midwest - Nancy Sattler
Central - Steven J. Wilson	Southwest - Jean Woody
Northwest - Stefan Baratto	West - Bruce Yoshiwara

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

✦ **Ticket Required for Breakfast Portion** ✦

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

For a description see page 22.

Friday 9:45 am - 10:30 am

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

Friday 10:30 am - 11:20 am

- S55 **Integrating Statistics into Modeling-based College Algebra (MI, ST, C)**
Sheldon P. Gordon, Florence S. Gordon
- S56 **Working Toward the New Vision of Mathematics Education (D, IS, TT)**
Mary Monroe-Ellis, Suzanne Etheridge, Amy Tankersley
- S57 **Assign 200+ Writing Projects a Semester and Live to Tell About It (IS, G, A)**
James (Rob) Eby
- S58 **What Can We Learn from the Soviet Way of Teaching Mathematics? (G, IS, C)**
Elmira Yakutova-Lorentz
- S59 **Common Core State Standards: Implications for Post-Secondary Education (C, GE, G)**
Tracy Halka, Chris Minnich, Bernadette B. Sandruck
- S60 **Mighty Manipulatives: Hands-on Activities for Developmental Math (D, TT, IS, RB)**
Heather Albrecht
- S61 **Making Use of Interactive White Boards in Developmental Mathematics (TT, D, IS)**
Linda Treilman
- S62 **Thirty Centuries of Computation in a 21st-Century Format (H, TT, TP, G)**
Agnes Azzolino