

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 Apollonius and Normals to Parabolas (H, G, GE)**
John Thoo
- S2 Experiences from an Online Mathematics Center (SS, TT)**
Shannon Schumann, Ruth M. Geiman
- S3 The Best of Las Vegas: What to See and Do (G)**
Eric J. Hutchinson, Christina Hughes Roldan
- S4 Breaking News! Students Actually Do Their Algebra Homework (D, IS, TT)**
Ria Thomas, Annette Magyar
- S5 Professional Learning Communities for Mathematics Teachers (DI, G, RB)**
Frank E. (Trey) Cox
- S6 Oh Craps! Simple Probability in Gaming (GE, ST)**
Lance Phillips
- S7 Collaborative and Interdisciplinary STEM Math Teacher Development (IS, TT, A, C)**
Rodney F. Null, Beth Basista
- S8 Chi Square and ANOVA Concept Development Through Hands-on Simulations (ST, IS)**
Christopher D. Oehrlein
- S9 National Student Outcomes Database Provides Detailed Analysis Tools (A, RB, DI)**
Keith White

Thursday 9:00 am - 9:50 am

- S10 Infusing Sustainability into Your College Mathematics Classes (GE, G, C)**
Tracey Clancy
- S11 Infinite Fun in a Finite Math Class (MI, IS, TT)**
Nancy J. Rivers, Deborah S. Benton
- S12 A Simpler Way of Doing Mathematics Equations Online (TT)**
Calvin Williamson
- S13 Moving Developmental Mathematics into the 21st Century (D, DI)**
Gregory P. Graue, Janet E. Teegarden

- S14 Why It Should be $y=b+mx$, Not $y=mx+b$ (IS, GE)**
Daniel P. Fahringer,
2004 Project ACCESS Fellow: Christopher Yarrish
- S15 Tried and True Instructional Techniques for Teaching Mathematics (IS, D, TT, MI)**
Farajollah (Fred) Katiraie
- S16 AMATYC 101 – Enhancing Your First Conference Experience (G)**
Jane D. Tanner, Michael H. Hardie
- S17 What Can We Learn from Studying How We Talk in the Classroom? (RB, IS, G)**
Vilma Mesa

Thursday 9:00 am - 10:35 am

Themed Session

- T1 Assessment: One Facet of Placement and Assessment**
TIA Using a First-Day Diagnostic Test for Course Assessment (A)
Edward A. (Ed) Gallo

Las Vegas 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.)

The Best of Las Vegas: What to See and Do (S3)

7:50 am, Thursday, November 12 in Grande G

If you are bringing guests to the conference, this session is for them to learn what's happening outside the hotel. Encourage them to attend this session to hear from AMATYC spouses and other family members what they like to do in the city.

Thursday, November 12

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| T1B | Frequent Assessment – A Key to Retention (A)
Garrett Gregor | S19 | And the Textbook Is ... Free? Intro to Open Educational Resources (TT, IS, DI)
Barbara S. Illowsky |
| T1C | Gen Ed Assessment in Mathematics Courses: Finding What Works (A)
Teri Rysz, Margaret J. Hager | S20 | Got Math? Try the MathDL! (TT, H, MI)
Bruce W. Yoshiwara |
| T1D | “Explain Your Reasoning” – Assessing Through Writing (A)
<i>2009 Project ACCCESS Fellow:</i>
Martha B. Makowski | S21 | Beware of Blue Boxes: Motivating Techniques in Calculus (MI, IS, RB)
Robert Cappetta |
| T1E | Configurable Assessment, Intelligent Grading – xyAlgebra (A)
John C. Miller | S22 | Tapping the Creative Energy of Adjuncts to Increase Student Success (DI, C, D, A)
Joyce Lindstrom, Dorrit O'Hallaron, Dot Peterson, Jackie Radle |

Thursday 9:00 am - 10:55 am

Themed Session

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|-----|--|-----|--|
| T2 | Making Connections to Algebra | S23 | A Study on a Developmental Mathematics Program that Suits All Students (D, RB, A)
Elizabeth Shearn, William Schildknecht |
| T2A | Solving Activities Using Algebraic Thinking (TP, IS)
Jane Hammontree | S24 | Recruiting and Retaining Women and Minorities as STEM Majors (C, G, IS)
Dennis C. Ebersole |
| T2B | Hike Mathland's Best Route via Arithmetic Canyon into Algebra Valley (TP, RB, TT)
June L. Gaston | S25 | Pennies, Dice & 1-Armed Bandits: Projects to Promote Math Appreciation (GE, G, H)
Michael Oppedisano, Candice H. Dance |
| T2C | MathARTS: A Collaborative Professional Project (TP, C)
Kathy Burgis, Angela Krebs | | |
| T2D | Math for Teachers in Developmental Classrooms (TP, D)
Darlene Winnington | | |
| T2E | Algebra Connections with Geometer's Sketchpad (TP, TT)
Claudia L. Stewart | | |
| T2F | Visual Algebra for the Elementary School Teachers (TP, IS)
Kendall V. Jacobs | | |

Thursday 9:00 am - 11:00 am

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| W1 | GAISEing in Las Vegas (ST, IS)
Judy H. Williams, John R.F. Gallo | S26 | Reasoning and Connections: External Applications and Human Curiosity! (G)
Henry Kepner |
| W2 | Math in the Real World: Classroom Activities that Motivate Students (IS, MI)
Frank C. Wilson | S27 | Students' Perceptions of Unsuccessful and Successful Math Learning (D, RB, SS)
Laurel B. Howard |
| W3 | Expected Return as a Function of Time (and Space) (G, ST, H)
Don Hutchison | S28 | Blackjack with Mathematics (G, ST)
Michael Y. Greenwich |
| W4 | Expect Higher Online Learning with Contextual Active Learning (IS, TT, D)
Ken Hurley | S29 | Recruit Mathematics and Science Teachers (G, TP, DI)
Kathy Rogotzke, Jason Friday |
| W5 | Project-based Learning in Developmental Mathematics (D, IS, C)
Alan L. Bass, Terrie Teegarden | S30 | Hybrid Courses: Some Random Thoughts on Expectations and Outcomes (IS, TT)
Martha T. Goshaw |

Thursday 10:10 am - 11:00 am

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| S18 | Aids to Learning Logarithms (IS, RB, MI)
Linda Tansil | S31 | Technical Writing as a Vehicle to Learn Math (IS, A, G, C)
Jerry R. Kissick, Holli Adams |
| | | S32 | Aristotle and Mathematics (H, G, C)
David Price |
| | | S33 | Presenting New Prealgebra Topics in a Real-World Context (D, IS, TP)
Holly Bass |
| | | S34 | Real-Life Projects for Assessment in Gen Ed Math (Online & Classroom) (A, GE, TT)
Joseph J. Sukta |

Thursday, November 12

- S35 **Making Calculus Come Alive with Dynamic Visualization Tools (MI, TT, RB)**
Paul E. Seeburger
- S36 **PC: The Ultimate Tool for Teaching and Learning Mathematics (TT, IS)**
Fred Feldon
- S37 **Yes, You Can Create Simple Video Presentations for Your Classes (TT, IS)**
2007 Project ACCESS Fellow: Mark Monroe

Committee Meeting

11:20 am - 12:10 pm
Developmental Mathematics

Thursday 12:30 pm - 1:20 pm

- S38 **The ADP Assessment Consortium: Lessons Learned and the Road Ahead (C, A)**
Tracy Halka
- S39 **Developmental Mathematics Redesign: What Do They Need to Know? (D, IS, SS, DI)**
Timothy (Tim) Britt
- S40 **Use of Statistics in the Engineering Workplace (ST, C)**
William G. Steenken
- S41 **Data: Not Just a Lot of Numbers (IS, TT)**
James Stewart, Lothar Redlin, Saleem Watson
- S42 **Uncommon Approaches to Some Common Calculus Problems (MI)**
Steven J. Kifowit, Terra A. Stamps
- S43 **Four Perspectives on the Teaching of Mathematics (M. A. T. H. Method) (IS, H, MI)**
Jeffrey T. Weaver
- S44 **Aviation Mathematics (G, C)**
Dona V. Boccio
- S45 **Links to Literacy (D, IS, TP)**
MaryAnne Anthony, Lynn Marecek
- S46 **An International Perspective on Assessment (A, RB)**
Marie H. Hipple

Committee Meeting

12:30 pm - 1:20 pm
Mathematics for AAS Programs

Thursday 12:30 pm - 2:00 pm

Please see page 24 for complete details.

- C4 **Carnegie Learning, Inc.: Redesigning Developmental Mathematics to Produce Lifelong Learners**
Amy Tankersley

Thursday 12:30 pm - 2:30 pm

- Q1 **Department/Division Chairs' Colloquium (DI)**
Anne Dudley, Sean Simpson
- W6 **Advanced Strategies for Craps and Poker (ST, G)**
Billy J. Duke, Joel A. Johnson
- W7 **How "Algebrese" Influences Your Students' Understanding of Algebra (D, IS, G)**
Robert D. Brown, Sherri L. Wilson
- W8 **Two Fractal Pop-Up Cards (MI, IS, H)**
Virginia Swenson
- W9 **Classroom Assessment Techniques for Improving Teaching and Learning (A, IS, RB)**
Beverly A. Meyers

Thursday 1:40 pm - 2:30 pm

- S47 **AMSER - Using Our Free Online Applied Math Resources in the Classroom (TT, G, SS)**
Rachael Bower, Chanda Halderman
- S48 **Success with Developmental Mathematics in a Small Learning Community (IS, D, SS, RB)**
Arlene G. Rogoff
- S49 **Real-World Applications for Intermediate Algebra (D, IS)**
Susan W. Santolucito
- S50 **What No "Alt" Tags? MathML: The Standard for Online Mathematics (TT)**
Cal Stanley
- S51 **Reading and Math - Vocabulary Knowledge Counts! (IS, RB)**
2005 Project ACCESS Fellow: Amber H. Rust
- S52 **Public-Key Cryptography (MI, G, H)**
Richard N. Aufmann
- S53 **Lead and Links (D, TT, IS)**
Doug Nering, Joanna J. Oberthur
- S55 **America's Idol? How the Contestant Most Voted for Doesn't Always Win (ST, TT)**
Jason Gershman

Committee Meeting

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

Thursday 3:00 pm - 4:30 pm

Opening General Session

Grande Ballroom A/B

Remarks by

Richelle (Rikki) Blair, AMATYC President

Speaker: Uri Treisman

On Behalf of Our Students: Building a New Science of Instruction

Thursday 4:45 pm - 7:30 pm

Grand Opening of the AMATYC Exhibits

Grande Ballroom E/F

Thursday 7:00 pm - 8:00 pm

AMATYC Forums

Royale 3

(see page 22 for complete description)

7:00 pm - 7:30 pm

Combining the Constitution and Bylaws

Moderators: Nancy Sattler, Ruth Collins, and Jean Woody

7:30 pm - 8:00 pm

Forum on Strategic Planning

Moderator: Rob Farinelli

Thursday 8:30 pm - 10:00 pm

AMATYC Foundation Presents

“Legerdemain in Las Vegas”

with Master Magician Phil Cheifetz

\$35/person (Ticket Required)

Top of the Riviera-South

See page 22 for details.

Places to Visit in Las Vegas

- ◆ Atomic Testing Museum
- ◆ Ethel M Chocolate Factory
- ◆ Fiesta Ice Arena
- ◆ Fremont Street Experience
- ◆ Las Vegas Art Museum
- ◆ Las Vegas Mini Gran Prix
- ◆ Las Vegas Natural History Museum
- ◆ Las Vegas Sportspark
- ◆ Liberace Museum
- ◆ Lied Children’s Museum
- ◆ Marjorie Barrick Museum of Natural History
- ◆ Neon Boneyard Museum
- ◆ Nevada State Museum
- ◆ Old Mormon Fort
- ◆ Pole Position Raceway
- ◆ Planetarium and Observatory
- ◆ Red Rock Climbing Center
- ◆ Richard Petty Driving Experience
- ◆ Springs Preserve
- ◆ Sunset Stampede
- ◆ Zero G

◆◆Check the website, www.vegas.com, for more information on what to do in Las Vegas.◆◆

Wireless High-Speed Internet Service (WiFi)

WiFi is available in the guest rooms for a charge of \$9.95 per twenty-four hour period. See the AMATYC Conference website for details.

Reception for First-Time Attendees

6:00 pm - 7:00 pm

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.

Registration Acknowledgement

Every registration form received in the AMATYC Office is acknowledged within 10 days by an email confirmation that includes a receipt number. If you do not receive an email acknowledgement, please contact the AMATYC Office immediately. A copy of this acknowledgement, presented to the on-site registration desk, will serve as proof your registration was submitted on or before the discount deadline.

An official receipt will be mailed once the registration form has been processed. **Please print a copy of your email confirmation and bring it with you to the conference, especially if you do not receive your official receipt in the mail before leaving for the conference.**